Graduate School Checklist
See inside back cover for explanation of checklist items, and see appropriate sections in this catalog for full details.

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<th>WHERE TO DO IT</th>
<th>WHEN TO DO IT/COMMENTS</th>
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| ☐ File application for admission to Graduate School. | Office of Graduate Studies and Research | Deadlines for submission:  
Fall Semester July 15  
Spring Semester Dec. 1  
Summer Session I April 15  
Summer Session II June 1 |
| ☐ Order 2 official copies of ALL transcripts. | ALL colleges attended | Schools must mail transcripts to SWT Graduate School so they are received by above deadlines. |
| ☐ Graduate non-Business majors: Take the GRE. | Obtain applications at testing centers of most colleges and universities. | Prior to semester of application. GRE scores must be received before end of first semester of enrollment. See departmental pages for programs requiring GRE before admission considered. |
| ☐ Business Admin. majors: Take GMAT. | | GMAT, TSE, TWE scores must be received BEFORE admission can be granted. |
| ☐ International Business Admin. majors: Take TSE. | (International students: Also see TOEFL requirement.) | |
| ☐ International Public Admin. majors: Take TWE. | | |
| ☐ Confer with graduate adviser and draft a degree outline. | Departmental graduate adviser | In the semester that you are admitted |
| ☐ Sign official degree outline. | Office of Graduate Studies and Research | At earliest opportunity during your first semester of attendance |
| ☐ Submit thesis proposal. | Office of Graduate Studies and Research | Before beginning formal thesis research |
| ☐ Pay diploma fee. | In registration line (fees) or cashier’s window | Beginning of semester of planned graduation |
| ☐ Apply for graduation. Have diploma receipt. | Office of Graduate Studies and Research | See official University Calendar for deadline to apply. |
| ☐ Remove any incomplete grades. | Departmental office (course instructor) | No later than 10 days prior to graduation |
| ☐ Take comprehensive examination. | Departmental graduate adviser | Generally during final semester with report due in Office of Graduate Studies 10 days prior to graduation |
| ☐ Verify that degree requirements have been fulfilled. | Office of Graduate Studies and Research | Approximately midway through final semester. No course more than 6 years old may be used toward master’s degree. |
| ☐ Obtain cap and gown. | SWT Bookstore | Prior to commencement |
| ☐ Attend graduation. Or request absence permit* and pay in absentia fee**. | *Office of Graduate Studies and Research; **Cashier’s window. | Comply with instructions mailed to all candidates one month prior to commencement. |

(Non-U.S. citizens: Also see international student requirements in this catalog.)
Southwest Texas State University
San Marcos, Texas

The American Association of Colleges for Teacher Education
The American Chemical Society
The American Speech, Language, and Hearing Association
The Association of State Colleges and Universities
The Association of Texas Colleges and Universities
The Association of Texas Graduate Schools
The Council of Graduate Schools in the United States
The National Association of School Psychologists
The National Association of Schools of Music
The National Association of Schools of Public Affairs & Administration
The National Council for Accreditation of Teacher Education
The Southern Association of Colleges and Schools
Board of Regents
Texas State University System

Jack L. Martin, Chairman (1991) .............................................. Austin, Texas
Norman D. Elder, Vice Chairman (1992) .................................. Del Rio, Texas
Sheila Wheatley Clark (1991) .................................................... Houston, Texas
Lee Drain (1989) ........................................................................ Dallas, Texas
Edmund M. Longcope (1991) .................................................... San Marcos, Texas
Katherine S. Lowry (1989) ........................................................ Austin, Texas
Dan Matheson (1995) ................................................................ Austin, Texas
W. C. Perry (1992) ..................................................................... Waco, Texas

Lamar G. Urbanovsky, Executive Director

University Administration

Jerome H. Supple, Ph.D. ............................................................... President
Michael L. Abbott, Ph.D. ......................................................... Executive Vice President
F. Eugene Binder, Ed.D. ............................................................. Special Assistant for External Affairs
Robert D. Gratz, Ph.D. ............................................................... Dean of the University
Theodore J. Marek, C.P.A. ......................................................... Vice President for Finance and Management
Leatha F. Miloy, Ph.D ............................................................... Vice President for Student and Institutional Relations
Rollo K. Newsom, Ph.D. ......................................................... Vice President for Academic Affairs
Denise C. Watts, M.A.T. ............................................................... Special Assistant to the President

ACADEMIC DEANS

T. Richard Cheatham, Ph.D. .................. Dean of the School of Fine Arts and Communication
Ernest K. Dishner, Ed.D. .......................... Dean of the School of Education
Paul R. Gowens, Ph.D. .................................. Dean of the School of Business
G. Jack Gravitt, Ph.D. ...................................... Dean of the School of Liberal Arts
Don C. Green, Ph.D. ........................................ Dean of the School of Health Professions
Diana E. Johnson, Ph.D. .................................. Dean of the College of General Studies
G. Eugene Martin, Ed.D. .......................... Dean of the School of Applied Arts and Technology
J. Michael Willoughby, Ed.D. .......................... Dean of Graduate Studies and Research
Edward L. Schneider, Ph.D. .......................... Dean of the School of Science
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Official University Calendar

Summer Session I, 1989*

June 1, Thursday ................................................................. New Student Orientation
June 1-2, Thursday-Friday ........................................ Registration
                          First and Second Summer Sessions and Full Summer Term Classes
June 1, 1 p.m. ................................................................. Registration for Degree Candidates
June 1, 4:30-7:30 p.m. ...................................................... Registration for Graduate Students
June 2, 8 a.m.-5 p.m. ........................................................ Registration for All Students
June 5, Monday ............................................................... Classes Begin
June 5, Monday, 8:30 a.m.-4 p.m. ......................... ONLY Day to Register Late or Make Schedule Changes,
                                      First Summer Session and Full Summer Term Classes
June 8, Thursday ............................................................. Official Fourth Class Day, First Summer Session
June 15, Thursday ............................................................ Second Three-Week Classes Begin
June 17, Saturday ............................................................... Classes Meet
June 21, Wednesday ... Last Day to Complete Drop Procedure or Withdraw from the University
June 23, Friday ................................................................. Final Examinations for First Three-Week Classes
June 27, Tuesday ....................... Deadline to File Application for Degrees to be Confirmed on August 11, 1989
July 4, Tuesday ................................................................. Fourth of July Holiday
July 5, Wednesday ......................................................... Last Day of Classes
July 5, Wednesday ............................................................... Final Examinations for Second Three-Week Classes
July 6, Thursday ............................................................ Final Examinations, First Summer Session

Summer Session II, 1989*

July 10, Monday ................................................................. New Student Orientation
July 10, Monday ................................................................. Registration, Second Summer Session
                                  8:40 a.m. ................................................................. Registration for Degree Candidates
                                  9:20 a.m.-7 p.m. ........................................................ Registration for All Students
July 11, Tuesday ................................................................. Classes Begin
July 11, Tuesday ...................... ONLY Day to Register Late or Make Schedule Changes,
                                      Second Summer Session
July 14, Friday ................................................................. Official Fourth Class Day
July 24, Monday ............................................................... Second Three-Week Classes Begin
July 27, Thursday ... Last Day to Complete Drop Procedure or Withdraw from the University
July 31, Monday ................................................................. Final Examinations for First Three-Week Classes
August 10, Thursday ......................................................... Last Day of Classes
August 11, Friday ............................................................... Final Examinations for Second Three-Week Classes
August 11, Friday ............................................................... Final Examinations
August 11, Friday ............................................................... Graduate School Commencement
August 12, Saturday .......................................................... Undergraduate Commencement

CALENDAR SUBJECT TO CHANGE DUE TO
LEGISLATIVE ACTION OR ADMINISTRATIVE DECISION

<table>
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*Please verify dates each semester with the university.
Fall Semester, 1989*

August 22, Tuesday ................................................. New Faculty Orientation
August 22, Tuesday ................................................. Faculty Meetings
August 22, Tuesday ................................................. Advance Registered Students Make Financial Aid Payments
August 23, Wednesday ............................................. New Student Orientation
August 23-24, Wednesday-Thursday ........................ Registration
August 23, Wednesday, 4:30-7:30 p.m. ......................... Registration for Graduate Students
August 24, Thursday, 11 a.m.-8 p.m. ......................... Registration for New Students
August 25, Friday, 8 a.m.-4:45 p.m. ......................... Late Registration
August 28, Monday ................................................. Classes Begin
August 28-30, Monday-Wednesday ......................... Schedule Changes
September 4, Monday .............................................. Labor Day Holiday, Classes Meet
September 9, Saturday ............................................ Official Twelfth Class Day
September 22, Friday .............................................. Deadline to File Application for Degrees to be Confirmed on December 15, 1989

October 16, Monday .............................................. Mid-Term (Second Half Classes Begin)
October 18, Wednesday ........................................... Mid-Term Grades Are Mailed
October 23, Monday .............................................. Last Day to Complete Drop Procedure or Withdraw from the University

November 6-17 ....................................................... Advance Registration for Spring
November 23-25, Thursday-Saturday ......................... Thanksgiving Holidays
November 30-December 5, Thursday-Tuesday .......... “Dead Week” - (daily assignments only)
December 5, Tuesday ............................................. Last Class Day
December 6-11, Wednesday-Monday ......................... Final Examinations
December 15, Friday .............................................. Graduate School Commencement
December 16, Saturday .......................................... Undergraduate Commencement

*Please verify dates each semester with the university.
Spring Semester, 1990*

January 9, Tuesday .................................... Advance Registered Students Make Financial Aid Payments
January 10-11, Wednesday-Thursday ................................................................. Registration
January 10, Wednesday ........................................ Registration for Graduate Students
January 11, Thursday .................................. Registration for New Students
January 12, Friday .................................................. Late Registration
January 15, Monday .............................................. Classes Begin
January 15-17, Monday-Wednesday .................................................. Schedule Changes
January 27, Saturday .................................................. Official Twelfth Class Day
February 9, Friday .................................................. Deadline to File Application for Degrees to be Conferred on
May 11, 1990
March 6, Tuesday .............................................. Mid-Term
March 8, Thursday .................................................. Mid-Term Grades Are Mailed
March 20, Tuesday .................................. Last Day to Complete Drop Procedure or Withdraw from the University
March 12-17, Monday-Saturday .................................................. Spring Break
April 9-20 .......................................................... Advance Registration
April 26-May 1, Thursday-Tuesday .................................. "Dead Week" - (daily assignments only)
May 2-7, Wednesday-Monday ......................................... Final Examinations
May 11, Friday .................................................. Graduate School Commencement
May 12, Saturday .................................................. Undergraduate Commencement

CALENDAR SUBJECT TO CHANGE DUE TO
LEGISLATIVE ACTION OR ADMINISTRATIVE DECISION

The official university calendar for the remainder of the school year will be available at a later date in the official SWT Schedule of Classes and in the 1989-1991 Graduate Bulletin Supplement when published.

*Please verify dates each semester with the university.
General Information

Setting

Located 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. From historic red-steepled Old Main, with its ivy-covered walls, to the Lyndon Baines Johnson Memorial Student Center, with its modernistic dome-covered plaza, you get the feeling that you are indeed on a college campus that is special.

Sound academic programming that combines the best of liberal arts education with professional, career-oriented curricula provides a broad range of educational options, including graduate degree programs in a wide variety of academic and professional areas.

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 grown from a two-year normal school to a multi-purpose university with an enrollment of 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.

Effective leadership of a succession of presidents has aided the school's progress. The first was Thomas G. Harris, a former Austin public school superintendent, who served until 1911. He was succeeded by Dr. Cecil E. Evans, also a veteran public school administrator, who was president for 31 years.

Upon Dr. Evans' retirement in September, 1942, Dr. John G. Flowers became president. Dr. Flowers was an alumus of Southwest Texas State and a former president of State Teachers College in Lock Haven, Pennsylvania.

When President Flowers retired in 1964, Dr. James H. McCrocklin became the fourth president. Dr. McCrocklin resigned in April, 1969, and Dr. Leland E. Derrick assumed the post of acting president.

Dr. Billy Mac Jones became president in September, 1969. Upon Dr. Jones' resignation in August, 1973, Mr. Jerome C. Cates, Vice President for Fiscal Affairs, became interim president.

Dr. Lee H. Smith became the university's chief executive in July, 1974. The former University of Texas at Dallas vice president retained the presidency until November, 1981, when Mr. Robert L. Hardesty was named to the position. Mr. Hardesty, former Vice Chancellor for Administration with the University of Texas System, served as president until June 13, 1988.
Dr. Michael L. Abbott, Executive Vice President, served as interim president until Dr. Jerome H. Supple was chosen president on December 16, 1988. At the time of his appointment, Dr. Supple was Vice President for Academic Affairs at the State University of New York at Plattsburgh and was on a year’s leave to the SUNY Potsdam campus as Acting Provost and Vice President for Academic Affairs. He served twenty-four years in the SUNY System as a chemistry faculty member and academic administrator.

Southwest Texas State University is a part of the Texas State University System. A nine-member Board of Regents, Texas State University System, governs Southwest Texas State University and three sister institutions: Angelo State University, Sam Houston State University, and Sul Ross State University.

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. In 1950, the Board of Regents authorized the granting of the Master of Education degree in addition to that of Master of Arts. In 1968, action of the Coordinating Board, Texas College and University System, added the degree of Master of Business Administration. In 1972, the university was authorized to grant the degrees of Master of Science and Master of Arts in Teaching and in 1973, the degrees of Master of Public Administration and Master of Science in Health Professions. 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. In 1980, a non-thesis option Master of Arts degree with majors in Speech Communication and Theatre Arts was approved. A Master of Education and a Master of Arts with a major 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 Arts and Master of Education degrees in 1985. In 1986 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.

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 an ample opportunity to continue 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:

- 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.
- The graduate student is expected to assume greater responsibility and to exercise more initiative.
- Seminar methods will be employed more frequently, requiring more class participation on the part of the student.

SWT President Dr. Jerome Supple (left) presented three Presidential Awards for Excellence in Teaching and Research at SWT's spring 1989 commencement ceremony. Recipients were, left to right, Dr. Lydia Blanchard, associate professor of English, for research; Dr. Beverly Chiodo, professor of administrative sciences, for teaching; and Dr. Susan B. Day, assistant professor of sociology, for teaching.
Graduate Council

The Graduate Council governs the policies of the Graduate School, and these policies are administered by the Dean of Graduate Studies and Research. 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 Graduate Studies and Research, 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 (1987-1993)
Carol T. Hazlewood, Department of Computer Science (1988-1990)
Robert L. Hefner, Department of Educational Administration and Psychological Services (1981-1991)
James D. Irvin, Department of Chemistry (1984-1991)
William R. Jackson, Department of Physics (1988-1992)
Robert D. Larsen, Department of Geography and Planning (1987-1991)
Ingeborg R. McCoy, Department of Modern Languages (1983-1991)
Donald T. Matlock, Department of Sociology (1986-1993)
Michael Nowicki, Department of Health Administration (1988-1993)
Robert J. Olney, Department of Computer Information Systems and Administrative Sciences (1985-1992)
Gregory B. Passty, Department of Mathematics (1987-1991)
James W. Pohl, Department of History (1987-1991)
John K. Ross, Department of Management and Marketing (1984-1992)
Philip J. Salem, Department of Speech Communication (1986-1990)
Lon R. Shell, Department of Agriculture (1988-1992)
Barry D. Smith, Department of Criminal Justice (1986-1990)
George M. Weinberger, Department of Political Science (1985-1992)
Ruth B. Welborn, Department of Allied Health Sciences (1987-1991)
David C. Whitenberg, Department of Biology (1987-1991)
Byron A. Wolverton, Department of Music (1989-1990)
James D. Yeary, Department of Accounting (1988-1992)

Non-voting Members

D. Theron Stimmel, Department of Psychology (1984-1991)
G. Sue Thompson, Department of Home Economics (1988-1992)
Marshal R. Wortham, Department of Art (1979-1991)

Ex-officio Members

Jerome H. Supple, President of the University
Rollo K. Newsom, 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, however, does not necessarily ensure acceptance into a graduate program since applicants must receive departmental recommendation for admission after the application files are completed in the Office of Graduate Studies and Research. In addition, many departments have established admission standards more stringent than the minimum. Final admission approval is granted by the Dean of Graduate Studies and Research. 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.

Most departments recommend that you arrange a personal interview with the appropriate departmental graduate adviser.

Admission of United States Citizens

Admission to the Graduate School as a degree-seeking student requires:
1. An official application for admission.
2. Two official copies of transcripts from each college or university attended mailed directly from the schools to the SWT Office of Graduate Studies and Research. (Exception: 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 still must be ordered from any colleges not listed on the SWT transcript.)
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.
4. Acceptance by your proposed major department.
5. Acceptance by the Dean of Graduate Studies and Research.
6. That you possess, or will earn during the semester you are admitted to graduate school, an acceptable baccalaureate degree from an accredited institution.
7. A non-refundable admission/evaluation fee if your required application documents include foreign credentials.

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

Admission of Non-United States Citizens (International Students)

An international applicant is defined as an applicant who is not a citizen of the United States. Such persons attend American colleges and universities as guests of the United States government. As such, they fall under regulations of the Immigration and Naturalization Service of the United States Department of Justice. University rules applying to such students 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 international students requires:
1. A non-refundable admission/evaluation fee.
2. An official application for admission.
3. Two official copies of transcripts from each college or university attended mailed directly from the schools to the SWT Office of Graduate Studies and Research. (Except-
tion: 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 still must be ordered from any colleges not listed on the SWT transcript.)

4. 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, on file in the Office of Graduate Studies and Research prior to your MBA application file being evaluated.

5. 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. However, the TOEFL cannot be waived for Department of Political Science applicants.)

6. Acceptance by your proposed major department. An international applicant must be accepted for a program of study approved by a department.

7. Acceptance by the Dean of Graduate Studies and Research.

8. A tuition/fees deposit as set forth by the SWT Office of Admissions.

9. That you possess, or will earn during the semester you are admitted to graduate school, an acceptable baccalaureate degree from an accredited institution.

10. Additional examinations as follows:
   a. An acceptable score on the Test of Spoken English (TSE), if you will be seeking an MBA degree, on file in the Office of Graduate Studies and Research prior to your MBA application file being evaluated. Note: The TSE is required of international MBA applicants who are native speakers of English as well as non-native speakers of English.

b. An acceptable score on the Test of Written English (TWE), if you will be seeking an MPA degree, on file in the Office of Graduate Studies and Research 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.

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

Admission of New Students

You are required to meet all requirements as identified above under either the United States Citizen category or the Non-United States Citizen category if you plan to seek a graduate degree at SWT.

Admission of Former 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.

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:
   1. Submit a new application for admission;
   2. Have two official copies of your SWT transcript which shows your graduate work (and two official copies of any other school transcripts showing work taken since your last attendance at SWT) forwarded to the SWT Graduate School;
   3. Have an official GRE (GMAT for prospective MBA students) score forwarded to the SWT Graduate School; and
4. Meet departmental and graduate dean approval. MBA applicants must also meet the TSE requirements. MPA applicants must also meet the required scores on the TWE and the TOEFL (not waived for holders of U.S. degrees).

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 Graduate Studies and Research for specifics regarding your admission.

Admission Deadlines

You must apply for admission through the Graduate School if you wish to pursue a master's degree at SWT, regardless of what degree you hold.

Application material should be submitted to the Office of Graduate Studies and Research no later than the following deadline dates to ensure processing for the desired semester:

- **Fall Semester**: July 15
- **Spring Semester**: December 1
- **Summer Session I**: April 15
- **Summer Session II**: June 1

International student applicants, however, are urged to have all application materials submitted at least 60 days prior to the first day of class.

You may have to postpone your requested entry semester if sufficient time is not allowed for proper processing of your admission documents as a result of your not submitting the materials in a timely manner. Applications received after the published deadline dates will be processed on a time-available basis only. The Office of Graduate Studies and Research will make every effort to process late applications, but there is no guarantee that your file will be processed for your desired semester of entry if you have missed the deadline.

Applications are for specific semesters. Contact the Office of Graduate Studies and Research so that your application can be updated for enrollment in a subsequent semester if you are unable to enroll for the semester for which you are accepted. You should do this as soon as you know that you will be enrolling for your semester of acceptance.

Extended Admission

You may be eligible to enroll under “Extended Admission” (a temporary admission status) if all of your admission documents have not been received in the Office of Graduate Studies and Research prior to registration. If you plan to seek a graduate degree at SWT and are unable to have all of your official transcripts sent prior to the published deadline, you may be given permission to enroll as an extended admission student provided that the official transcripts will be received in the Office of Graduate Studies and Research within a specific period. If the official transcripts are not received by the end of this period (usually 30 days during the long semester and 15 days during each summer session), the Dean of Graduate Studies and Research may require you to withdraw from your class or classes immediately.

You must contact the Office of Graduate Studies and Research in advance of registration so as to make the proper arrangements if you feel you must apply for the extended admission category. (Since the extended admission period expires within 15-30 days, it is suggested that you request official copies of your transcripts and other admission documents to be forwarded to the SWT Graduate School as soon as you decide to
attend. Apply for extended admission only if you believe there may be a delay in the Graduate School receiving the documents by the week of registration.) Your grade-point average on your last 60 undergraduate semester hours before your bachelor's degree, or your last 60 undergraduate semester hours before your bachelor's degree plus any graduate or professional work, must be no less than 2.75 on a 4.0 scale. You must already have your application for admission on file prior to the registration period to be considered for extended admission. And, once you have determined it is necessary for you to apply under the extended admission status, you must bring to the Office of Graduate Studies and Research legible copies of transcripts showing your previous college work and degrees. (These transcripts can be unofficial, but you should not expect to have them returned to you. You will still be required to have two official copies of your transcripts forwarded to the SWT Graduate School in addition to any materials you are requested to provide under the extended admission status.)

Extended admission enrollment generally is handled during the late registration time period which follows the regular registration period. You will be expected to hand-carry admission materials between the Office of Graduate Studies and Research, your prospective department, the registration area, and any other offices which will need to process your admission materials. Also be aware that as a result of additional admission documents requirements, some programs may not allow extended admission students.

Registration Termination

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

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

Probation. If you wish admission to the SWT Graduate School and are on probation at your former school, you must follow the same rules as would be required if you were an SWT graduate student who is on probation.

You will be placed on academic probation when you enter SWT if you are on academic probation at your former school. When you achieve a cumulative GPA of at least 3.0 at the end of your first semester of enrollment at SWT, you will be removed from probation status. Should you not achieve the required cumulative GPA of at least 3.0 during your first semester of enrollment at SWT, you will be suspended from the SWT Graduate School.

Suspension. If you wish admission to the SWT Graduate School and are on suspension at your former school, you must follow the same rules as would be required if you were an SWT graduate student who is on suspension.

You may petition your prospective graduate adviser and the Dean of Graduate Studies for permission to enroll after you have been on suspension for six months. Each decision is made on an individual basis. If you are granted admission to SWT after you have been suspended at your former school, you must maintain a 3.0 GPA in each semester of enrollment or be suspended again. Also, individual graduate programs may impose additional cumulative GPA restrictions for their students.

See "Grading Policies and Academic Requirements 'Probation and Suspension'" section for further information.
Admission Documents

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

Office of Graduate Studies and Research
Southwest Texas State University
San Marcos, Texas 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 Graduate Studies and Research. 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 at the back of this catalog, or the application may be obtained from the Office of Graduate Studies and Research. 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 an additional “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.

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

Graduate Record Examination

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 students (see GMAT information below). Subject examinations are not accepted. The official results of the GRE must be received in the Office of Graduate Studies and Research 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 Graduate Studies and Research may deny you permission to enroll if you have not taken the GRE prior to your desired second semester of enrollment. Several programs (including but not limited to allied health research, computer science, counseling and guidance, developmental education, health care administration, and public administration) also require you to have your GRE score on file prior to admission to the SWT Graduate School.

Registration forms are usually prepared automatically for regularly admitted graduate degree-seeking students who have continuous enrollment. If your official GRE score is not on file, however, your registration form will not be automatically prepared. Additionally, certain certification programs, such as counseling and guidance, 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 can 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 Graduate Studies and Research 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 are required to take the Graduate Management Admission Test. The official results of the GMAT must be on file in the Office of Graduate Studies and Research 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 can 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 Graduate Studies and Research 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 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 non-graduate degree-seeking students. (Native speakers of English may receive an exemption from taking the TOEFL. Note: The TOEFL requirement may also be waived if you already possess a degree from an American university located in the United States. However, the TOEFL cannot be waived for Department of Political Science applicants.) The score must be mailed directly to the SWT Graduate School by the Educational Testing Service. In addition, some applicants may be required to provide further evidence of proficiency in the English language. For instance, international applicants for the MBA program must also have the Test of Spoken English, and international applicants for the MPA program must also have the Test of Written English.

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 are not considered official scores for admission purposes.

The TOEFL is administered at various centers in the United States and abroad at least five times each year. SWT is an approved testing center for the TOEFL. Application forms and information bulletins may be obtained from the Educational Testing Service, P.O. Box 6151, Princeton, New Jersey 08541-6151, U.S.A., or from the University Testing Center at Southwest Texas State University.
Test of Spoken English

All international applicants to the Master of Business Administration program are required to have the official results of the Test of Spoken English (TSE) sent before the application for admission will be considered. Native speakers of English as well as non-native speakers of English are required to take the TSE. 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, U.S.A.

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 submitted. 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, Princeton, New Jersey 08541, U.S.A.

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 for admission will be considered until the necessary fee is paid.

Tuition and Fees Deposit

As an international student who will be using an F-1 visa, you are required to submit a $1,600 deposit (U.S. currency) to cover a portion of the tuition and fees for your first semester or satisfy the requirements of the Deposit Waiver Agreement. The deposit is requested after you have met all admission requirements outlined above and have received Graduate School admission. You will need to contact the International Student Admissions Specialist in the SWT Office of Admissions for information on the required deposit. Additionally, the deposit does not cover your books nor your living expenses.

F-1 Visa

SWT will not issue an I-20 Form until all of the financial as well as academic requirements for admission have been met and the Dean of Graduate Studies and Research has approved the graduate adviser's recommendation for admission. An international student who is on an Immigrant Visa is not required to have an I-20 Form.
Categories of Admission

A student is considered accepted to the SWT Graduate School only after the Office of Graduate Studies and Research 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 Graduate Studies and Research at the recommendation of the graduate adviser or the department Chair in the degree program which you wish to enter. The Dean of Graduate Studies and Research may refuse admission to any applicant regardless of whether or not you meet the admission requirements if the Dean of Graduate Studies and Research judges that such action is in the best interests of you or of the university.

Regular Admission. Regular degree-seeking admission, if you are not seeking an MBA, may be granted if you:

1. Have a grade-point average (GPA) of 2.75 on a scale of 4.0, calculated on the last 60 semester hours of undergraduate work before your bachelor's degree plus any previous work in a graduate or professional school (a GRE score is still required), or

2. Have a GPA of less than 2.75 but at least 2.50 and a Graduate Record Examination (GRE) General (Aptitude) 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 program if you:

1. Have an MBA 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), AND,

2. Meet any special requirements imposed by the MBA graduate program. See the detailed section under the departmental pages with the School of Business heading regarding calculation of the admission index.

Keep in mind that 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.

Conditional Admission. The graduate adviser in the degree program which you seek to enter may recommend to the Dean of Graduate Studies and Research that you be "conditionally" admitted to study toward the degree 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.

If you are conditionally admitted to a graduate degree program, the Dean of Graduate Studies and Research and your graduate adviser will impose certain requirements on your continued study. When you have completed the conditions of your admission, your graduate adviser or department Chair will recommend to the Dean of Graduate Studies and Research that you be unconditionally admitted to study for the degree or that you be denied admission to continue studies for the degree. While you are under conditional admission for one program of study, you are not allowed to change to another program of study until you have fulfilled the conditions of your admission (or unless special permission is obtained from your department and the Dean of Graduate Studies and Research). If you have not satisfied your conditions of admission within the specified time limit, the Dean of Graduate Studies and Research may deny you permission to re-enroll.
At the recommendation of your graduate adviser to the Dean of Graduate Studies and Research, some or all of the graduate courses you take during your period of conditional admission may count toward the degree.

Graduating Seniors. If you are a senior and have a superior academic record and lack 12 or fewer semester hours toward graduation, you may, with the approval of the proper department Chair (in the department in which you wish to pursue graduate studies) and approval of the Dean of Graduate Studies and Research, register during your final semester of undergraduate study for courses to be applied toward your prospective master's degree. You will be required to meet all other Graduate School admission criteria.

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 could you enroll in a post-graduate (certification) program.

Non-Degree Seeking Applicants

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 a course solely for personal enrichment. To enroll as a special student, you must:
1. File with the Office of Graduate Studies and Research an official Application for Admission to the Graduate School (for informational purposes);
2. Sign and complete a Special Student Form, which is available in the Office of Graduate Studies and Research. You will also need to obtain departmental concurrence, as applicable.

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 and the admission fees deposit/payment, 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. With the permission of the Dean of Graduate Studies and Research and the graduate adviser, if you are currently pursuing a graduate degree at another institution, you may enroll in graduate courses at SWT. 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. File with the Office of Graduate Studies and Research 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. As an international student, as defined above, who wishes to enroll as a visiting student, also submit a letter from your foreign student 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 period. 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 you hold at least a baccalaureate degree, you may gain admission as a “Post-Graduate.” You must apply for entrance through the Graduate School whether you plan to take only graduate courses, only undergraduate courses, or a combination of both. As a post-graduate student, you must:

1. File with the Office of Graduate Studies and Research 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. For example, the counseling and guidance program requires an applicant to have a current Graduate Record Examination score submitted. Please consult with your prospective program/department for specifics.

Educators' 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 you hold at least a baccalaureate degree, you must apply for admission through the Office of Graduate Studies and Research even though some of your certification courses will be at the undergraduate level. Admission to the university, however, does not include nor does it imply admission to the teacher education program. You should adhere to the following procedure.

1. File an official Application for Admission to the Graduate School with the Office of Graduate Studies and Research as either:
   a. A regular degree-seeking student and meet all other degree-seeking admission document requirements as stated above.
   b. Or, a post-graduate, non-degree-seeking student.
2. Submit a copy of your transcript which shows your highest college degree earned; and
3. Apply for the appropriate certification deficiency plan in the Office of Teacher Certification and Educational Placement (located in the Education Building on campus). If you are seeking initial teacher certification, you must meet the same criteria for admission to teacher education as those imposed on undergraduate students. Note: 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.
If you are seeking a professional certificate, you must apply for admission through the Office of Graduate Studies and Research and adhere to the following procedure:

1. File an official Application for Admission to the Graduate School with the Office of Graduate Studies and Research as either:
   a. A regular degree-seeking student and meet all other degree-seeking admission document requirements as stated above.
   b. Or, a post-graduate, non-degree-seeking student.

2. Submit a copy of your transcript which shows your highest college degree earned; and

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 diagnosti­
   cian or a reading specialist.
   c. Since 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 Chair of the appropriate department. A processing fee will be assessed if you request a Texas Education Agency (TEA) TCER-003 deficiency plan.

Post-Graduates from Colleges or Universities outside of Texas. If you hold valid teacher certification from another state, you need to apply to the Division of Teacher Certification of the Texas Education Agency, 1701 North Congress Avenue, Austin, Texas 78701 (telephone: 512-463-8976). If you do not currently hold valid teacher certifica­

Changing from Certification 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 also must submit a written request to the Office of Graduate Studies and Research to change your status in ample time to meet the admission deadlines, usually at least six weeks in advance (see "Admission Policies, ‘Admission Deadlines’” section). The request should identify your proposed graduate major and minor and whether you wish a thesis or non-thesis degree plan.

After you are regularly admitted to a graduate degree program, you may be permitted to utilize some of the courses taken under the post-graduate category toward your graduate degree. You may request this only if you were accepted as degree-seeking beginning with the fall, 1982, semester. At the recommendation of your graduate ad­

viser and with approval of the Dean of Graduate Studies and Research, 6 semester hours of graduate work taken under the post-graduate status may be counted toward your graduate degree.
Applicants Seeking Second Baccalaureate Degree

The Office of Graduate Studies and Research is charged with the processing of admission paperwork for students who already possess a baccalaureate degree, even those students who may be taking non-degree undergraduate credits. Thus, you may initially be referred to the Office of Graduate Studies and Research. However, the only time when papers are not processed through the Office of Graduate Studies and Research is when students are seeking additional undergraduate degrees.

Therefore, if you wish to seek a second baccalaureate degree (or an associate degree), you must complete an undergraduate application for admission available from the SWT Office of Admissions. The Office of Admissions works with students seeking baccalaureate or associate degrees and will issue your letter of acceptance when appropriate. You will continue contact with that office until you have completed your second undergraduate degree. Normally, the program of study for a second baccalaureate degree consists of a minimum of 30 additional undergraduate semester hours beyond your first baccalaureate, and these hours will be prescribed by the Chair of your proposed major department.

After you obtain a second baccalaureate degree and if 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 undergraduate 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 Second Master's Degree

If you wish to pursue a second, or subsequent, master's degree, please contact the Office of Graduate Studies and Research 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 your major department after you have received formal acceptance through the Graduate School. This method of advisement ensures that you will receive sound academic counseling from faculty in your chosen field of study. A degree plan will be developed for you, and subsequent changes on the official degree outline must be requested through your major department and coordinated with the Office of Graduate Studies and Research.
Registration and Course Credit

Registration

The Office of Graduate Studies and Research will notify you officially by mail regarding your admission. Since applications are for specific semesters, you should notify the Office of Graduate Studies and Research 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 Graduate Studies and Research or the Office of the Registrar. Off-campus registration information is available in the respective departmental offices.

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 Forms. Registration forms are prepared automatically for all newly accepted graduate students (degree-seeking, post-graduate, and special), continuing post-graduate students, and continuing regularly admitted graduate degree-seeking students. Since all degree-seeking graduate students must have the Graduate Record Examination (except Master of Business Administration students who have the Graduate Management Admission Test), your registration form is not prepared after your initial semester of enrollment if the official score is not on file according to the Graduate School 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 Policies and Academic Requirements '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 Graduate Studies and Research may authorize an overload. To request an overload, you must submit a written request to the Dean of Graduate Studies and Research at least three days before registration. The request must be accompanied by a written endorsement from the Chair of the academic department. 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:

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<thead>
<tr>
<th>Hours</th>
<th>Enrollment Status</th>
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<tr>
<td>Fall and Spring Semesters and Twelve-Week Summer Session</td>
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<tr>
<td>9</td>
<td>Full Time¹</td>
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<tr>
<td>6</td>
<td>3/4 Time</td>
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<tr>
<td>5</td>
<td>Half Time</td>
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</tbody>
</table>

**Six-Week Summer Sessions**

| 5 | Full Time¹ |
| 4 | 3/4 Time |
| 3 | Half Time |

**Off-Campus 8-Week Terms Fall, Spring, and Summer**

| 6 | Full Time¹ |
| 4 | 3/4 Time |
| 3 | Half Time |

Course loads for graduate students using VA benefits are evaluated as follows:

<table>
<thead>
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<tr>
<td>5</td>
<td>Half Time</td>
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<tr>
<td>less than 5</td>
<td>Tuition and Fees</td>
</tr>
</tbody>
</table>

**Six-Week Summer Sessions**

| 4 | Full Time¹ |
| 3 | 3/4 Time |
| 2 | Half Time |
| less than 2 | Tuition and Fees |

**Off-Campus 8-Week Terms Fall, Spring, and Summer**

| 6 | Full Time¹ |
| 4 | 3/4 Time |
| 3 | Half Time |
| less than 3 | Tuition and Fees |

**Twelve-Week Summer Session**

| 9 | Full Time¹ |
| 6 | 3/4 Time |
| 3 | Half Time |
| less than 3 | Tuition and Fees |

¹ 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.
Adds and Drops/Schedule Changes

You may drop a course and receive a "W" in the course if your professor decides that you are passing the course. If you are not passing the course, a grade of "F" will be given for the course dropped.

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 Graduate Studies and Research. 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 they are not considered in application for regular admission.

Correct Registration

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

Correspondence Study

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

Course Level

All courses required for the master's degrees offered at Southwest Texas State University should be at the 5000 level or above. In exceptional cases, with the prior written approval of your graduate adviser and the Dean of Graduate Studies and Research, 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 for each.
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 if you wish to pursue a thesis or non-thesis plan of study. In the semester that you are admitted to graduate degree study, you must confer with your graduate adviser and plan a degree outline. This proposed outline is then submitted by the department to the Office of Graduate Studies and Research for approval and finalizing. A copy of the official degree outline is made for you, and you will receive written notification from the Office of Graduate Studies and Research when the outline has been prepared. The outline should be used in determining which courses to enroll in each time you register.

You are not officially in the Graduate School of Southwest Texas State University until you have signed your official degree outline. 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 by means of official written notification on the approved forms by the departmental graduate adviser to the the Office of Graduate Studies and Research.

Extension Credit

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 Extension and does not constitute acceptance as a regular student at SWT.

Degree credit for extension course work. Extension work which is accredited toward a graduate degree must be approved by the department Chair and the Dean of Graduate Studies and Research. 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, can be earned through extension courses at another accredited institution.

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

A maximum of 6 semester hours of credit earned at another institution may be accepted on transfer and applied toward the master’s degree, provided that the credit was earned in graduate courses completed in residence at the accredited institution, that the courses are appropriate to your degree program at SWT, that the courses have not been—and will not be—used for credit on another degree, and that:

1. 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 Graduate Studies and Research asking for acceptance of the transfer work as part of your SWT degree.

2. 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 Graduate Studies and Research 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 Graduate Studies and Research. You may also be requested to provide a catalog from your school which gives course descriptions for any transfer work requested.

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. You should obtain a letter of good standing from the Dean of Graduate Studies and Research to take background courses at another institution.

Withdrawal

You must contact the Office of the University Registrar in person to officially withdraw from the university. In certain cases, however, the Registrar may accept withdrawal by letter or telephone. Students living in university residence halls must also contract the Residence Life Office in person to withdraw.

Work/Life-Experience Credit

You may petition to receive up to 9 semester hours credit for work/life-experience after you have been admitted to the Graduate School as a degree-seeking student in the interdisciplinary studies program. An evaluation board evaluates the proper documentation on an individual basis.
Grading Policies and Academic Requirements

Academic Information for Assistant Instructors (Al'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 six 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 four hours). A twelve-week summer session carries a normal teaching load of six hours. Any exceptions to these teaching loads must be approved by the Dean of Graduate Studies and Research and the Vice President for Academic Affairs.

Course Load. The Al 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 six semester hours. Al's taking more than nine semester hours of course work must have approval from the Dean of Graduate Studies and Research and from the Vice President for Academic Affairs. During the summer session, a minimum of three semester hours of course work is required. An Al taking more than six semester hours per summer session must have approval from the Dean of Graduate Studies and Research and from the Vice President for Academic Affairs.

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

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

Change of Grade

A grade in an individual course may be changed when the involved faculty member certifies to the University Registrar that an error had been made in computing the original grade. The grade change must be approved by the department Chair and the Dean of the School or the Dean of Graduate Studies and Research.

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 absence policy of the course at the initial class meeting.
2. Students will ensure that they are aware of the absence policy for each course in which they are enrolled.

Course Credit Requirements

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 duly 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 so as to receive credit for course work performed in a preceding semester or summer session, nor may you enroll in a class so as to receive credit for work performed at another college or university. Additionally, you may not enroll in a class so as to receive credit for work performed for another course.

Course Numbers

Courses numbered 5000 and above are open to graduate students. The second digit of the course number identifies how many semester hours of credit will be received for the course. For example, a course numbered 5300 would carry 3 semester hours of credit (at the graduate level). Numbers in parentheses following a course title indicate the clock hours per week spent in lecture and laboratory, respectively.

The first four digits in course numbers represent individual courses. When a fifth digit is used, it represents an area of concentration within a more general course and is intended to provide a more accurate transcript of work in a course.

Graduating Senior. In rare instances, a graduating senior may be allowed to take a 5000-level course for undergraduate credit provided that the course is a requirement for graduation and the equivalent course is not offered at the undergraduate level. You must be in your final semester of undergraduate study for this provision to apply. Your department Chair must submit a written request to the Dean of Graduate Studies and Research for approval of this exception. If the Dean of Graduate Studies and Research approves the request, you must complete an application for admission to the Graduate School and a special student form. Both of these forms are available in the Office of Graduate Studies and Research.

Additionally, a graduating senior may be allowed to take a graduate-level course for graduate credit provided you are in your final 12 semester hours required for your baccalaureate degree. See the section under “Categories of Admission: Degree-Seeking Applicants’” for additional information.

Course Symbols

Grades are indicated by the following symbols: “A”, excellent work; “B”, good; “C”, average; “D”, passing; “F”, failure; “I”, incomplete; “W”, withdrawn passing; “F”, withdrawn failing. A grade of “P”, which is temporary and non-punitive, may be given in selected courses where the required clock hours necessary for completion 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 you left a class or the university under extremely unusual circumstances and failed, through no fault of your own, to officially withdraw.

If any course work is incomplete during any semester, the work must be completed by an indicated deadline arranged between you and your professor. The “I” grade is assessed for one reason only: Student failure to complete a vital portion (final examination, paper, etc.) of a course because of a situation beyond the student’s control. If your “I” grade has not been removed in one year’s time, the grade will revert to “F”.

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:

\[
\begin{align*}
A &= 4 \text{ points} \\
B &= 3 \text{ points} \\
C &= 2 \text{ points} \\
D &= 1 \text{ point} \\
F &= 0 \text{ points}
\end{align*}
\]
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 Official Outline of Work for Master's Degree. Cumulative GPAs 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 3.00 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. 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. If you have just completed your semester of having been on probation and you did not raise your cumulative GPA to 3.0, you will be suspended from the Graduate School.

Readmission. After being on suspension status for six months, you may petition your graduate adviser and the Dean of Graduate Studies and Research 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. And, individual graduate programs may 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 Graduate Studies and Research.

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

Residence Requirements

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.
Degree Information

Application for the Degree

You must indicate your intent to graduate during registration for your final semester. The intent to graduate must be indicated on your registration form, and you must pay a diploma fee in addition to your usual registration fees. **You must complete your degree application in the Office of Graduate Studies and Research 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 you to initially accept 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 Graduate Studies and Research for issuance of a letter of completion.

**Reapplication for the Degree.** If you fail to complete the degree requirements in the time for your planned graduation, you must reapply for 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 Graduate Studies and Research 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 Graduate Studies and Research at least ten days before the commencement at which the degree is to be conferred.

Grade-Point Requirements for Graduation

To be eligible for graduation, you must have a GPA or 3.0 or better in the major and in the minor. Higher minimum requirements may also be required by some degree programs.

**Background Work.** Background work is not computed in the 3.0 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 Graduate Studies and Research at least ten day 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 56. If you are also obtaining certification, you may be required to complete additional hours.

Recommendation for the Degree

Candidates are certified for graduation by the Dean of Graduate Studies and Research 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 for 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 the time may be given to students who enter military service.

You will graduate under the current catalog at the time of your graduation unless you inform the Dean of Graduate Studies and Research in writing that you wish to graduate under the catalog you entered under.

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 capacity 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 Graduate Studies and Research. After obtaining your committee members’ signatures, you must submit the forms in triplicate to the Dean of Graduate Studies and Research for approval before you proceed with research on your thesis.

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 “P”, (in progress). No other letter grades are awarded 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 Library and the binding fee is paid. You will receive a grade of “CR” after the thesis has been filed for your initial 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 Dates.** The completed thesis must be submitted to the Chair of the thesis committee no later than 36 days before the date of the commencement at which the degree is to be conferred. The completed thesis must be submitted to the Dean of Graduate Studies and Research for final approval not later than 18 days before the date of the commencement at which the degree is to be conferred.

**Thesis Copies.** Two copies of your thesis which are suitable for binding must be delivered to the Dean of Graduate Studies and Research by the Monday noon preceding graduation. After appropriate original signatures (thesis committee members and the Dean of Graduate Studies and Research) have been obtained on the signature sheets, these two copies of the thesis must be deposited in the Learning Resource Center (University Library) where a fee to cover the cost of binding must be paid before the degree is conferred. Failure to comply with this regulation will delay graduation until the following semester or whenever you complete your thesis requirements.

**Letter of Completion.** Even though you may have missed the deadline for submission of the thesis and thus be unable to participate in graduation ceremonies at the end of the semester in which you had planned to graduate, you still may be able to receive a letter of completion. A letter of completion is issued by the Dean of Graduate Studies and Research and states that you have completed all requirements for the degree.

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**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>MINIMUM HOURS</th>
<th>THESIS</th>
<th>SPECIAL CHARACTERISTICS</th>
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Note: Most programs have minors unless otherwise identified.

1 The Master of Science is a degree in the School of Science. Any student majoring in a discipline within that School must elect to use any minor within that School if a degree option which requires a minor is selected.

2 No minor is used in conjunction with the identified major.

3 Consult graduate adviser.
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, subscriptions to The University Star, use of the Student Center facilities, use of the health services, use of 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 following official fee charts 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 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.

Required Registration Fees, 1989-1990

Residents of Texas

Fall and Spring Semesters of the Long Term 1989-1990 (per semester)

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1 Add $18 for tuition and $2 for computer service fee for each hour over 20. Student service fee, building use fee, student center fee, bus fee, and student publication fee remain the same.
### Residents of Texas, continued

**Summer Term, 1990 (per session)**

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1 Add $18 for tuition and $2 for computer service fee for each hour over 7.
2 For each hour over 7, the building use fee will be $45.
3 For each hour over 7, student service fee, student center fee, bus fee, and student publication fee remain the same.

### Non-Resident Students — United States Citizens and International Students

**Fall and Spring Semesters of the Long Term 1989-1990 (per semester)**

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1 Add $122 for tuition and $2 for computer service fee for each hour over 20. Student service fee, building use fee, student center fee, bus fee, and student publication fee remain the same.
### Non-Resident Students — United States Citizens and International Students, continued

#### Summer Term, 1990 (per session)

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<td>848</td>
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<td>7</td>
<td>854(^1)</td>
<td>45</td>
<td>42(^2)</td>
<td>10</td>
<td>8</td>
<td>14(^1)</td>
<td>5</td>
<td>978</td>
</tr>
</tbody>
</table>

\(^1\) Add $122 for tuition and $2 for computer service fee for each hour over 7.

\(^2\) For each hour over 7, the building use fee will be $45. Student service fee, student center fee, bus fee, and student publication fee remain the same.

### Required Registration Fees, 1990-91

The required registration fees for the school year 1990-91 will be available at a later date in the official SWT Schedule of Classes and in the 1989-91 Graduate Bulletin Supplement when published.

### Fees for Special Courses
(in addition to registration fees)

Piano, organ, voice, band or orchestral instruments:

- **Music Practice Fee**: $2.00 per semester
- **Music Ensemble 1113H, 2113H, 3113H, 4113H, 5121H**: 8.00 per semester
- **Music Ensemble 1111C, 2111C, 3111C, 4111C, 5121C**: 10.00 per semester
- **Music 4250**: 10.00 per semester
- **Music Performance 5105K, 5105L, 5105M, 5105N**: 18.00 per semester
- **Music Specialization 1108W, 1110W, 1112W, 1114W**: 10.00 per semester
- **Music Specialization 1111R, 1111S, 1111T, 2113R, 2113S, 2113T, 3115R, 3115S, 3115T, 4117R, 4117S, 4117T**: 15.00 per semester
- **Music Specialization 1103Y; 2105Y; 3107Y; 4109Y; 5115Y; 1104V; 2106V; 3108V; 4110V; 5111V; 1106A-Q; X; 2108A-Q; X; 3110A-Q; X; 4112A-Q; X; 5105A-Q; X; 15.00 per semester
- **Music Specialization 1203Y; 2205Y; 3207Y; 4209Y; 5215Y; 1204V; 2206V; 3208V; 4210V; 5211V; 1206A-Q; X; 2208A-Q; X; 3210A-Q; X; 4212A-Q; X; 5205A-Q; X; 3307Y; 3407Y; 4309Y; 4409Y; 5315Y; 3308V; 3408V; 4312V; 4412V; 5311V; 3310A-Q; X; 3410A-Q; X; 4312A-Q; X; 4412A-Q; X; 5305A-Q; X**: 35.00 per semester
- **Scattered Practice Teaching, Education 4382, 4383, 4384**: off-campus (payable in full upon initial registration one time only) 75.00
- **Internship Practicum, EDA 5389B, EDA 5389H**: off-campus (payable in full upon initial registration one time only) 75.00
- **Internship Practicum, EDP 5389A, EDP 5389C, EDP 5389Y**: off-campus (payable in full upon initial registration one time only) 75.00
- **Internship Practicum, Special Education 5389**: off-campus (payable in full upon initial registration one time only) 75.00
Laboratory Fees:
Accounting 3327, 3385, 4313
Administrative Science 1323, 1225, 3366
Agriculture 1445, 2304, 2345, 2373, 2374, 2379, 3305, 3306,
3310, 3317, 3320, 3353, 3375, 3426, 4302, 4330, 4361
Anthropology 2414, 2415
Anthropology 4630
Art 1314, 1354, 1373, 2321, 2354, 2370, 2383,
3311, 3321, 3322, 3323, 3327, 3337, 3359, 3365, 4310,
4311, 4321, 4322, 4323, 4327, 4337, 4363, 4365,
4370, 4373, 4383, 4393
Art 1321, 2331
Art 2310, 3310
Biology 1410, 1420, 2340, 2350, 2430, 2440, 2460, 3400,
3406, 3407, 3410, 3421, 3422, 3440, 3442, 3450, 3460,
3461, 3465, 3470, 3480, 3490, 3495, 4299, 4305, 4408,
4410, 4411, 4412, 4413, 4415, 4416, 4420, 4421, 4422,
4423, 4425, 4430, 4440, 4441, 4442, 4445, 4450, 4454,
4465, 4470, 4480, 5305, 5312, 5318, 5319, 5319P, 5319Z,
5335, 5336, 5345, 5350, 5350D, 5361, 5362, 5390, 5395,
5399, 5401, 5410, 5411, 5412, 5413, 5415, 5420, 5421,
5422, 5423, 5425, 5440, 5441, 5442, 5445, 5450, 5454,
5465, 5470, 5480, 5485
Business Administration 5316, 5331, 5332, 5343
Chemistry 1101, 1410, 1420, 1430, 2130, 2410, 2420,
2450, 3245, 3410, 4275, 4299, 4336, 4337, 4430,
4440, 4465, 5275, 5336, 5337, 5399
Communication Disorders 3367, 4318, 5344
Computer Information Systems 3370
Computer Information Systems 2323, 4346
Computer Science 3408, 3468
Economics 3335
English 1300, 1310(CAI), 1320(CAI), 2351(CAI)
Finance 3312, 3318, 4317
French 1410, 1420
General Science 3310, 3320
Geography 1414, 1415, 3411, 3415, 3416, 4412, 4422,
4430, 4440, 5408, 5416, 5417, 5418, 5430
German 1410, 1420
Health Administration 4340
Health Research 5161, 5211, 5235, 5237, 5239, 5263,
5267, 5269, 5331, 5341, 5343, 5351, 5365, 5373,
5381, 5399
Home Economics 1321, 1332, 1351, 1360, 2191, 2322,
2333, 2350, 2360, 3191, 3322, 3323, 3333, 3341,
3350, 3351, 3360, 3361, 3391, 3393, 4322, 4323,
4324, 4330, 4332, 4390
Home Economics 4301, 4352, 4681
10.00 per semester
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8.00 per semester
20.00 per semester
Journalism 1313, 1374, 1450, 2150, 3202, 3310, 3314,
3319, 3323, 3329, 3350, 3368, 3372, 3374, 3383,
3385, 4307, 4310, 4313, 4320, 4383 8.00 per semester
Journalism 2392 20.00 per semester
Journalism 3312, 3390 25.00 per semester
Management 4330 10.00 per semester
Mathematics 1311 8.00 per semester
Medical Record Administration 3363, 3464 10.00 per semester
Medical Technology 2414, 3412, 4222 8.00 per semester
Medical Technology 3410 12.00 per semester
Medical Technology 4223, 4318, 4380, 4424, 4470 16.00 per semester
Medical Technology 4360, 4550 20.00 per semester
Occupational Education 4340 8.00 per semester
Physical Therapy 3312, 3313, 3315, 3318, 3412, 4313,
4316, 4317 10.00 per semester
Physical Therapy 4615 20.00 per semester
Physical Therapy 3410, 3411 25.00 per semester
Physics 1110, 1140, 1410, 1420, 1430, 2415, 2425, 4265,
4336, 4337, 5336, 5337 8.00 per semester
Physics 3316, 3411, 4323 10.00 per semester
Respiratory Therapy 1314, 1316, 2331 10.00 per semester
Spanish 1410, 1420 8.00 per semester
Social Work 4425, 4645, 4650 8.00 per semester
Sociology 2315, 3308, 4690, 5308 8.00 per semester
Technology 1320, 1330, 1413, 1450, 2310, 2320, 2344,
2350, 2365, 2370, 3313, 3320, 3350, 3365, 3370,
3380, 3384, 3386, 4310, 4313, 4330, 4344, 4350,
4360, 4362, 4371, 4372, 4373, 4374, 4375,
4385, 4387, 4391, 4393 8.00 per semester
Technology 5391 12.00 per semester
Laundry Service Fees for Physical Education Uniforms

The following fees are required for students enrolled in physical education courses which require uniforms. Students taking more than one uniform-required course will pay only one fee.

Laundry Service Fees for PE Uniforms
- $12.00 per long term
- 6.00 per summer session

The following courses require uniforms:

Fees for individuals not enrolled in physical education courses who wish to use the university physical education uniforms are as follows:

Students ........................................... $12.00 per long term  
........................................... 6.00 per summer session  

Faculty, staff, or spouse of faculty or staff ........... 40.00 for twelve months  
........................................... 15.00 per long term  
........................................... 5.00 per summer session  

Children of faculty or staff 18 years of age or younger .......... 10.00 per long term  
........................................... 5.00 per summer session  

Other Special Fees

Correspondence Instruction (3-hour course) ........................................... $135.00  
(Pro rata portion of fee charged for each additional hour)  
Fee for Extension of Correspondence Course ........................................... 35.00  
Delinquent Installment Fee ........................................... 15.00  
Installment Service Fee ........................................... 10.00  
Late Registration Fee ........................................... 10.00  
Musical Instrument Insurance Fee ........................................... 5.00  
Reinstatement Fee ........................................... 50.00  
Residence Hall Deposit ........................................... 100.00  
Transcript Fee (official copy) ........................................... 3.00  

Certificate and Diploma Fees

Certificate Fee (payable when applying for certificate)  
Provisional (permanent) ........................................... $10.00  
Professional ........................................... 10.00  
Diploma Fee ........................................... 12.00  
Diploma Insert Fee (reapplication for graduation) ........................................... 3.00  
In Absentia Fee (special handling of 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.

Concurrent Enrollment at Another Public Institution of Higher Education

To be eligible for the provisions of Senate Bill 250 (students concurrently enrolled at another public institution of higher education), you must present to the Accounting Office representative at the “tuition adjustment table” before payment of tuition and fees: evidence of enrollment, number of semester hours enrolled, and receipt showing total tuition paid at another public institution of higher education. The university will keep the copy of the fee receipt for audit purposes.

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. Obtain your gummed course label for the thesis course only on your registration form.
2. Prior to entering the payment of fees area during registration, take your registration form with the thesis label attached to the final check area. There you will have a thesis fee reduction form completed and verified.
3. Next, go to the tuition adjustment table where your registration form will be coded for reduced fees.
4. You then follow the process to complete payment of your fees during registration and you will be charged the lesser fees automatically. You should already have made a stop at the “candidate for graduation” table for additional candidate coding on your registration form.
Late Fee for Student Health Center

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.

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. A registration fee will be charged according to the schedule listed below.

All Motor Vehicles and Motorcycles, 12 months (Fall, Spring, and Summer) .................................................. $25.00
All Motor Vehicles and Motorcycles, Spring and Summer Only ................................................................. 15.00
All Motor Vehicles and Motorcycles, Summer Only ................................................................................. 15.00
All Motor Vehicles and Motorcycles, Commuter and Riverside Apartments, 12 months (Fall, Spring and Summer) .................. 15.00

The official traffic regulations will be those published by the university each year, entitled "Traffic-Parking Regulations".

Off-Campus Courses

As an off-campus student, you 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 fees are paid. Payment may be made by check or money order payable to Southwest Texas State University. If checks are returned unpaid for any reason other than the admitted error of the bank, you must pay in cash immediately, and a $15.00 service fee will be charged for each returned check. If any of your checks have been dishonored, you may be required to pay in cash thereafter.

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 denominational coin wrappers and signed by the payer.

Residency for Tuition Purposes

The Texas Legislature and the Coordinating Board, Texas College and University System, have established guidelines for determining Texas resident and non-resident classifications and the corresponding tuition rates. Texas residency for tuition purposes is generally obtained by living and working in Texas for twelve consecutive months immediately prior to enrollment in any college or university or by being a dependent of a Texas resident.

If you have lived outside Texas or have a possibility of being a non-resident, your residency is coded accordingly. After you have submitted and had evaluated a completed residency questionnaire, a determination of your eligibility to pay in-state tuition will be finalized.

You may qualify to pay in-state tuition if you are a non-resident and (1) you or your spouse or parent are a member of the Armed Forces and are stationed in Texas; (2) you or your spouse or parent are employed at least half-time by a Texas public institution of higher education in a teaching or research position; or (3) you hold a competitive academic scholarship of at least $200 for the academic year or summer.
It is your responsibility to ensure that your status is properly coded for tuition purposes. Any change in residency status must be reported to the Office of Admissions. Full regulations pertaining to residency are available in the Office of Admissions.

Rules Regarding Fees

Rules and regulations governing student residency classification are available in 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 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's Financial Obligations

You are expected to meet financial obligations to the university within the designated time allowed. Registration fees are payable at the time of registration in full, in halves, or in quarterly payments. You are not entitled to enter class or laboratory until your initial payment of fees and full payment of deposits have been made. Failure to pay the amount owed in the allowed time may result in any or all of the following: 1) dismissal from the university, 2) withholding of future registration privileges, 3) withholding the issuance of an official transcript, and/or 4) withholding the conferring of a degree.

Tuition and Fees for Special Summer Course Offerings Other Than the Traditional Six-Week Session

The tuition and fees semester credit hour rate for any course offerings 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.
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, however, that any general property deposit which remains without call for refund for a period of four year 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 Cashier's Office in the J.C. Kellam Building is entitled to refund of tuition and fees under the following condition:

The amount actually paid, either in full or 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:

(amount paid for tuition and fees) minus

(semester charge for tuition and fees times percentage owed)

equals refund (if positive amount).

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 you reduce your semester hour course load by officially dropping a course or courses, the following refund rates will apply, provided you remain enrolled at Southwest Texas State University and provided you pay 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. If a student is paying by installments, the refund will be applied to remaining unpaid installments. If a student has paid in full, on request a check will be mailed 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 $2.00. Reducing semester credit hours to zero is considered a withdrawal and the withdrawal policies apply.
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

Refunds in the Event of Death

In the event a student dies and a refund of tuition, fees, room and board, deposits, or other monies 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 practicable 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 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.

Effective July 1, 1984, 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 also meet the specific financial aid program eligibility requirements. These satisfactory academic progress guidelines apply regardless of whether or not financial aid was 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. The most recent grade received in a course is used in calculation of your GPA when courses are repeated. 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 “F” and will be counted in calculation of your GPA. Grades of “W”, “P”, 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 times 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. In calculating academic progress for financial aid purposes, a maximum of 6 semester hours of thesis enrollment will be counted.

7. A graduate or post-graduate student not meeting the above satisfactory academic progress requirements is ineligible for financial aid. Under normal circum-
stances, 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 assist 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 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:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Date</th>
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<tbody>
<tr>
<td>Fall Semester</td>
<td>May 1</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>October 15</td>
</tr>
<tr>
<td>Summer</td>
<td>March 15</td>
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</table>

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 in the lower level of the University Service Center, Monday through Friday.

**Veteran's Benefits**

If you plan to attend SWT while receiving educational assistance under one of the public laws for veterans and/or their dependents, you must contact the SWT Office of Veterans Affairs (OVA), located in the J.C. Kellam Building, to complete the required application.

If you are applying under Veterans Administration laws for the first time, you must provide OVA 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 on your written request. Certified copies of marriage, divorce, and birth certificates are also necessary to establish full entitlement. Active duty military personnel and dependents are exempt from these requirements. Transferring students who have previously used their VA educational benefits need only submit documents which reflect a change in the number of their dependents.

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

As a graduate student receiving veteran benefits, you must file with OVA 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 OVA 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, non-thesis Master of Education (M.Ed.) degree with a major in agricultural education and an integrated minor in agriculture and closely related fields is available. 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 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 Topics in Horticulture Science. (3-0) Study of current principles and practices involved in the production, general care, and maintenance of horticultural plants grown in greenhouses, nurseries, other forcing structures, and in the field.

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.

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.

1 May be repeated for additional credit when problem differs.
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 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 Cooperative Part-time and Pre-employment Laboratory Training Programs in Vocational Education. (3-0) Establishing and administering cooperative part-time and pre-employment laboratory training in occupations requiring knowledge and skill in vocational and technical subjects. Special emphasis on selecting students, training stations, facilities, employer-employee agreements, supervision, labor laws, training plans, course of study, and teaching techniques.

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.

5340 Organization and Administration of Agricultural Mechanics. (3-0) Emphasis on planning, organizing, implementing, and conducting vocational technical laboratory programs. Shop program management functions such as equipment selection, purchasing, maintenance, shop budgets, inventories, and supply needs. Writing educational specifications in planning for vocational and technical shop facilities.

5371 Topics in Agricultural Mechanics. (3-0) Study of selected topics not currently available in existing courses. Topics to be considered will be taken from the following: (a) Advanced Farm Power and Machinery, (b) Water Utilization and Management in Agriculture, (c) Energy Use and Management in Agriculture, (d) Agricultural Structures Design, and (e) 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.

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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.

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.

Dayberry, Dan Thomas, Assistant Professor of Agriculture. B.S., M.S., New Mexico State University; Ph.D., Texas A&M University.

Dillingham, John Michael, Associate Professor of Agriculture and Supervisor of Student Teaching. B.S., Texas A&M University; M.S., Texas Tech University; Ph.D., Texas A&M 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 program:

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 humanly 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 a thesis and a non-thesis option. 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 9 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 will be assigned in Criminal Justice 5350 and must be approved by three of the department's graduate faculty.

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 MSCJ 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 MSCJ program.

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.

5332 Decision-Making in Criminal Justice Organizations. (3-0) An analysis of the quantitative nature of criminal justice organizations with emphasis on the development, analysis, and use of data to be used in problem solving and decision-making.

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 but courts emphasis will vary depending on changes in contemporary issues.

Prerequisites: Criminal Justice 5310, Criminal Justice 5315.

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 enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Graduate Faculty

Bell, Daniel James, Associate Professor of Criminal Justice. B.S., M.S., Ph.D., University of Oregon.

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

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

Mullins, Wayman, 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 and Chair of the Department of Criminal Justice. B.S., M.A., Ph.D., Sam Houston State University.
Occupational Education

Degree Programs

Major and degree offered:
The Office of Occupational Education participates in the university's interdisciplinary Master of Science in Interdisciplinary Studies (M.S.I.S.) degree.

Major programs:
Occupational Education participates in the 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. 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.

Graduate Faculty

Pierson, Michael James, Professor of Technology and Director of the Office of Occupational Education. B.S.E., Abilene Christian College; M.Ed., Southwest Texas State University; Ed.D., Texas A&M University.

Springer, Stephen Barry, Assistant Professor of Technology. B.A., St. Mary's University; M.Ed., Our Lady of the Lake College; Ed.D., Texas A&M University.
Department of Technology

Degree Programs

Major and degrees offered:
   Industrial Arts, M.A., M.Ed.

Major programs:
   The Department of Technology offers the degrees of Master of Arts and Master of Education, both with majors in Industrial Arts.
   The Master of 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 in lieu of the minor. This cognate area would be comprised of graduate-level course work from any department or division at SWT other than technology. Course selection with regard to 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 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.

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, occupational investigation, and occupational exploration. 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 five 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 speciality. The teaching certificate is awarded after you have taught in your 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 which 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.

**Vocational Office Education.** Vocational Office Education certification qualifies individuals to teach 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. Office education programs include the following: office education cooperative, office education pre-employment laboratory, business information processing, business computer applications, business computer programming, microcomputer applications, office services—coordinate vocational-academic education or vocational education for the handicapped, and general office clerical—coordinate vocational-academic education or vocational education for the handicapped.

Certification courses include: Vocational Education 5303, Vocational Education 5380, Vocational Education 5381, and Vocational Education 5382. Other certification work is accomplished during annual state workshops for vocational office education personnel through the Texas Education Agency.

**Marketing Education.** Certification qualifies individuals to teach vocational marketing education programs in the junior and senior high schools. Marketing Education is designed to prepare, maintain, and advance people in marketing 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; and (3) supervised on-the-job training.

Certification courses include: Marketing 3343, Marketing 3355, Vocational Education 5301, Vocational Education 5302, Vocational Education 5303, and Vocational Education 5304.

**Occupational Orientation.** Occupational Orientation (investigation and exploration) 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 occupational investigation and/or occupational exploration teachers in the secondary schools.

Certification courses include: Vocational Education 5301, Vocational Education 5303, Vocational Education 5205, Educational Psychology 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 comprised of administration, research and analysis, supervision, and curriculum development of the various vocational education programs.

1 Occupational investigation teachers
2 Occupational exploration teachers
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 which 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 post-graduate) 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.

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 manufacturing 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.

5381 Industrial Methods and Production Techniques. (3-0) Industrial arts teachers select information regarding structure of modern manufacturing methods and techniques. Students gain insight into enlightened industrial practices. Examples of the technology of specific industries and analysis of methods so that basic principles of production and techniques may be brought to students in typical school situations.

5384 Problems in Technology. (3-0) For the industrial arts teacher who needs to become acquainted with new developments within the industrial arts curriculum and for the graduate student who desires to strengthen certain experiences initiated in undergraduate courses. Plans will be developed on an individual basis.

5385 Modern Industries. (3-0) To assist teachers of industrial arts with the problem of guiding high school students to sources of information on technical, social, and economics aspects of modern industries. Individual and group studies will be made. Results will be submitted in a form suitable for publication.

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3 May be repeated for additional credit with permission of the Chair of the department.
5387 **Planning Advanced Industrial Arts Laboratories.** (3-0) In-depth studies of architectural, engineering, and educational problems encountered in designing, equipping, arranging and specifying facility requirements for advanced industrial arts courses at the senior high school level.

5388 **New Developments in Industrial Arts.** (3-0) New concepts appearing in industrial arts since 1950 as a result of the increasing importance of technology.

5389 **Curriculum Construction in Industrial Arts.** (3-0) Techniques and procedures in selection, organization, and production of teaching materials for use in junior and senior high school courses.

5390 **Research in Industrial Arts.** (3-0) Identification, analysis, and evaluation of significant research in industrial arts education. Explanation of research techniques applicable to problems. Preparation of research reports with a view toward publication.

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.

5393 **Measurement and Evaluation Methods for Industrial Arts.** (3-0) The objectives of evaluation, teacher-made tests, interpretation of standardized test results, statistical methods, and reporting techniques as used in industrial arts.

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; multi-media 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)**

5202 **Development, Organization, and Use of Instructional Material.** (2-0) 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 student's progress may be recorded for future references and class planning.

5204 **Human Relations for Vocational Education Teachers.** (2-0) Establishing and maintaining effective 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, 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.

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3 May be repeated for additional credit with permission of the Chair of the department.
5205 Shop and Classroom Organization and Management. (2-0) Organization and management procedures used in vocational shop 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.

5206 Analysis and Course Making. (2-0) 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 outlines, and progress charts will be prepared. Courses of study will be revised or prepared as completely as time will permit.

5207 Selection, Placement, and Follow-up in Vocational Education. (2-0) Organizing and operating cooperative 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.

5208 Problems in Cooperative Training. (2-0) Review of basic standards for Cooperative Education Training Programs and underlying reasons for such standards with emphasis on solution of actual problems in program operation. Includes study of procedures and techniques involved in community surveys, interpretation of survey data, program promotion, and organization and coordination of all types of part-time and evening classes.

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, evaluation criteria for business and distributive education departments.
5313 Special Topics in Vocational Education. (3-0) Directed study and research in selected topics in vocational education. Course can be offered as individual instruction or as an organized class. 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.

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.

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.
Graduate Faculty

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

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

**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.

**Walker, Joe Wayne**, Associate Professor of Technology and Supervisor of Student Teaching. B.S., M.Ed., Ed.D., University of North Texas.

**Windham, Billy Lee**, Associate Professor of Technology. B.S. in 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.
School of Business

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 maintains and develops programs at the undergraduate level for individual specializations in selected career fields; the graduate program is 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 Master of Business Administration 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 programs report clearly defined benefits as a result of completing graduate education programs: 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 education can provide the necessary skills, knowledge, and attitudes to enable the professional to effectively cope with the increasingly complex challenges confronting the manager of the future.

The Master of Business Administration program at SWT emphasizes 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 training and is flexible enough to allow development of programs to meet individual needs rather than confining students to narrow, predetermined specializations.

MBA courses are taught using both lecture and case approaches. Instruction is designed to achieve a balance between theory and application; projects involve critical management issues and challenge students to view problems in new ways and to examine a variety of possible solutions to the same problem.

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

Major and degree offered:
   Business Administration, M.B.A.

Admission policy:

   All Applicants. Admission to the MBA program is selective and designed to identify those applicants who have the ability, interest, and maturity to manage the rigors of the program. Applicants must hold a baccalaureate degree 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 undergraduate GPA 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 Office of Graduate Studies and Research 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:

The Master of Business Administration degree may be earned under either a thesis or non-thesis plan. Under the thesis plan, the student must satisfy the Common Body of Knowledge (background courses), 24 semester hours of graduate-level core courses, and 6 hours of thesis. Under the non-thesis plan, the student must satisfy the Common Body of Knowledge, 24 hours of graduate-level core courses, and 12 hours of electives. 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.

   Common Body of Knowledge (CBK). The areas of instruction covered by the CBK courses are specified by the American Assembly of Collegiate Schools of Business (AACSB), the national accrediting council in business administration. The CBK courses consist of 27 semester hours of undergraduate course work as follows:

   Accounting  6 semester hours or BA 5303
   Business Law  3 semester hours or BA 5308
   Economics  6 semester hours or BA 5302
   Finance  3 semester hours or BA 5307
   Management  3 semester hours
   Marketing  3 semester hours
   Statistics  3 semester hours

The courses comprising the CBK are offered on campus on both a day and night basis. Students who hold a baccalaureate degree in business administration and who have had previous course work in these areas normally will not be required to complete the above listed courses. These courses also may be taken at any accredited four-year college or university. Also see "Undergraduate-level background course work" section in the "Registration and Course Credit 'Transfer Credit'" section of this catalog.

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1 Students must be admitted to the MBA program before enrolling in graduate-level CBK courses.
Applicants who have not met the admission standards specified above and who must satisfy CBK course requirements may be admitted as special students for the purpose of taking undergraduate courses only. During this special enrollment, they 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 Common Body of Knowledge, all MBA students must complete 24 hours of graduate core courses. Students must satisfy all prerequisites (including the CBK equivalent) of a graduate course before enrolling. Business Research Methods, BA 5390, should be taken the first semester a student is enrolled. Administrative Policy, BA 5313, should be taken in the student's last semester because it serves as the capstone course for integrating the course material taken in the MBA program.

**Elective Courses.** In addition to the 24 semester hours of core courses, students who choose the non-thesis plan must complete 12 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 first be approved by the School of Business Graduate Policies Committee and the Dean of Graduate Studies and Research. No more than 6 elective hours may be taken outside the School of Business.

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

1. The common body of knowledge (CBK) courses (or their equivalents) in either the baccalaureate degree program or as part of the MBA degree program;
2. Eight MBA core courses;
3. Four MBA graduate-level elective courses, or a minimum of 6 hours of thesis, depending on whether the non-thesis or thesis plan is selected;
4. The comprehensive examination;
5. Acceptance of the thesis if the degree plan with thesis is selected.

**Courses Offered**

**Business Administration (B A)**

**Common Body of Knowledge Courses**

**5302 Economic Theory and Policy.** (3-0) An intensive study of micro- 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. May not be counted as an elective MBA course.

**5303 Financial Accounting Concepts.** (3-0) An intensive study of financial accounting procedures, concepts, and reports utilized in making business decisions, including preparation and interpretation of financial statements, measurement of cash flows, and financial forecasting. May not be counted as an elective MBA course.

**5307 Foundations of Finance.** (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. May not be counted as an MBA elective course.

Prerequisite: Business Administration 5303.

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1 Students may also be required to complete undergraduate CBK courses in management, marketing, and statistics.
5308 Decision Making in the Legal Environment. (3-0) 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. May not be counted as an elective MBA course.

Core Courses

5312 Seminar in Management. (3-0) Study and analysis of management theory; managerial functions; management principles; philosophies of management; analysis of nature and problems and approaches to planning, organizing, decision making, and controlling through the study of recent relevant literature and selected cases.
Prerequisite: Management 3303.

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 student’s MBA program.

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 Business Administration 5316 or Business Administration 5378.
Prerequisite: Business Administration 5302 or equivalent.

5321 Seminar in Marketing. (3-0) A study of the planning and coordination of marketing functions, marketing policies, and the analysis of marketing administration.
Prerequisite: Marketing 3343.

5331 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.
Prerequisite: Administrative Sciences 3333.

5361 Seminar in Managerial Accounting. (3-0) Managerial use of accounting data as an aid in decision making and control of business operations.
Prerequisites: Accounting 2361 and Accounting 2362, or Business Administration 5303.

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 Business Administration 5378 or Business Administration 5316.
Prerequisite: Business Administration 5302 or equivalent.

5387 Managerial Finance. (3-0) Course 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 are also studied.
Prerequisite: Finance 3312 or Business Administration 5307.

5390 Business Research Methods. (3-0) Designed to aid graduate students in analyzing reports and evaluating research and in planning research reports. Selection of research problems, sources of data, analysis, presentation, report writing, directed reading, class reports, and a research problem.
It is recommended that the student take this course in the first semester in which enrolled.
Elective Courses

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: Business Administration 5302 or equivalent.

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: Marketing 3343.

5314 Organization Behavior and Human Relations. (3-0) The analysis of interpersonal behavior in organizations through the study of the interrelationship and impact of human, technical, economic, and social factors in business administration.
Prerequisite: Management 3303.

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.

5324 Government Regulation of Business. (3-0) Deals with 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: Business Administration 5302 or equivalent.

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.

5330 Seminar in Personnel Administration. (3-0) A study of current developments and practices in industrial relations, including executive development programs; employee communications; 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, or consent of Chair of Management and Marketing.

5332 Quantitative Methods. (3-0) A study of management science/operations research emphasizing theory and applications of evaluative, predictive, and optimizing models.
Prerequisite: Administrative Sciences 3333.

5333 Problems in Business Administration. (3-0) 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.

5343 Management Information Systems. (3-0) Principles of systems analysis and design of computer-based management information systems. Included is an introduction to the development of a computer-based management information system and a career-oriented application of systems analysis and design.
5354 Decision-Support Models in Management. (3-0) Course gives the generalist modern decision-making skills through modeling with decision support systems. Managers are often required to abstract the broad design of a decision model that will be responsive to executive needs, to write the model, to carry out the analysis themselves, and to present the results of the work to management. Course is designed to develop these skills via the use of computer-based decision support systems.

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: Business Administration 5361, or consent of instructor.

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: Business Administration 5361, or consent of graduate adviser.

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.

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: Business Administration 5302 and Business Administration 5387, or equivalents.

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.

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

Economics³ (ECO)

5376 Economic Education I. (3-0) Designed to develop basic economic concepts that teachers of K-12 students can understand and use. May not be counted as an elective MBA course.

5377 Economics Education II. (3-0) Designed to help teachers of K-12 students solve meaningful problems by applying basic economic analysis to various topics. May not be counted as an elective MBA course.
Prerequisite: Economics 5376, or consent of instructor.

³ Economics 5376 and Economics 5377 may not be counted as elective MBA courses.
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 Assistant Dean of the School of Business. B.S., M.Ed., Kent State University; Ph.D., University of Akron.

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

Bishop, Bill Joe, Professor of Accounting. B.B.A., M.B.A., University of North Texas; Ph.D., University of Texas at Austin. C.P.A.

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

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

Cook, James Randolph, Professor of Computer Information Systems and Chair of the Department of Computer Information Systems and Administrative Sciences. B.B.A., M.B.A., 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., M.B.A., University of North Texas; Ph.D., Louisiana State University.

Garnett, Robert Hendrie, Associate Professor of Finance. B.B.A., M.B.A., 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., M.B.A., Ph.D., Texas Tech University. C.P.A.

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

Johnston, Marvin Autry, Professor of Computer Information Systems. B.B.A., M.B.A., Ph.D., Texas Tech University. C.D.P.

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

Keyt, George Kingsley, Assistant Professor of Finance. B.S., M.A., Pennsylvania State University; Ph.D., University of Minnesota.

Kishan, Ruby Pandey, Assistant Professor of Economics. B.A., Bhagalpur University; M.S., Ph.D., Texas A&M University.
Lee, Orland Sherer, Associate Professor of Accounting. B.S., M.S., Ph.D., Oklahoma State University. C.P.A.

Martin, Roy B., Associate Professor of Computer Information Systems. B.B.A., M.B.A., 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; M.B.A., Ph.D., University of North Texas.

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

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

Moffet, Katherine Southerland, Assistant Professor of Accounting. B.B.A., University of Central Arkansas; M.B.A., University of Texas at Arlington; Ph.D., University of North Texas.

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

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.


Myers, Malcolm Lee, Assistant Professor of Finance. B.A., North Carolina State University; J.D., Emory University School of Law.

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, MBA Program Director and Assistant Dean of the School of Business. B.S., John Brown University; M.Ed., Northeastern Oklahoma State University; Ph.D., University of Oklahoma.

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

Pecquet, Gary Michael, Assistant Professor of Economics. B.S., M.S., Louisiana State University; Ph.D., Virginia Polytechnic Institute and State 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, Assistant 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; M.B.A., University of Dallas; Ph.D., University of North Texas.
Sanders, Donald Edward, Associate Professor of Finance. B.B.A., Texas Tech University; J.D., University of Texas School of Law.

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

Shah, Vivek, Assistant Professor of Administrative Sciences. B.S., University of Bombay; M.B.A., Tarleton State University, Ph.D., University of North Texas.

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

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; M.B.A., Ph.D., Texas A&M University.

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

Walden, Jan Minifie, Associate Professor of Management. B.S., Bowling Green State University; M.B.A., Ph.D., University of South Carolina.

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.
School of Education

Department of Curriculum and Instruction

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.

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.

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 education majors, other than those in special 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 instruction given in the manual for writing the thesis.

Majors:

Elementary Education. This major usually consists of 24-27 hours in elementary education and an academic minor of 9-12 hours or composite minor grouped under the title of methods and materials. Emphasis on bilingual education, early childhood, or gifted and talented is offered with 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.

The program also permits students to minor in reading education and major in one of the following: counseling and guidance, educational administration, elementary education, or secondary 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.

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 and certificates:

Endorsements and certifications are available in addition to majors and concentrations associated with degree programs. These include Bilingual/Bicultural, Early Childhood, and Special Education. Inquiries regarding any of these endorsement or certification programs should be directed to the Chair, 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 Certification. This professional certificate is based on a master's degree and three years' documented teaching experience. Courses required are: Special Education 5360, Special Education 5334, Special Education 5364, Special Education 5365, Special Education 5325, Special Education 5326 or Special Education 5327, Special Education 5375, Special Education 5389, Psychology 5370, Psychology 5371, Educational Psychology 5376, and Educational Psychology 5305.

Generic Special Education Endorsement. These courses constitute an endorsement 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.

Kindergarten Endorsement. The following four courses, 12 semester hours, will constitute endorsement in kindergarten education on the elementary level: Early Childhood Education 5318, Early Childhood Education 5319, Early Childhood Education 5330, and Curriculum and Instruction 5378K. Six semester hours of Early Childhood may be counted as electives toward the elementary degree.

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 5312, Special Education 5313, Special Education 5314, Special Education 5315, and Special Education 5316.
Courses Offered

Curriculum and Instruction (CI)

5178 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: 5378I Elementary, 5378J Secondary, 5378K Early Childhood, 5378L Bilingual.

5278 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: 5278I 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 Evaluate 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.

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 relationships.

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 experience, 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.

53781 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: 53781 Elementary, 5378J Secondary, 5378K Early Childhood, 5378L 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.

5399A 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 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.

Early Childhood Education (ECE)

5318 Advanced Early Childhood 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.

1 May be repeated once for additional credit at discretion of the Chair of the 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.

5322 Methods and Materials for Teaching Reading in the Elementary Grades. (3-0) Concerned with children four to twelve years old and concentrates on preventing reading failure by dealing with readiness; assessment of linguistic, psycho-social, and physiological development; diagnostic reading; scope and sequence of beginning reading skills; use of traditional and innovative methods and material adapted to individual differences.

5323 Diagnosis of Reading Problems. (3-0) A study of the nature and causes of reading problems including observations, demonstrations, and supervised practice in the techniques of diagnosis. Attention is given to interview procedures, diagnostic instruments, standard and informal tests, and report writing.
Prerequisites: Reading major: Reading 5320, Reading 5322, and Reading 5324; Reading minor: Reading 5322 or Reading 5324.

5324 Teaching Reading in the Secondary School. (3-0) Deals with teaching developmental reading in the secondary school. Topics to be included are extension of fundamental reading skills, classroom diagnosis and correction of reading problems, study skills, developing flexibility and critical thinking, reading in the content areas, adolescent reading tastes, and supervision of secondary school reading programs.

5331 Procedures and Practices for Teaching Reading to Black, Spanish and Other Multi-Ethnic Pupils. (3-0) Deals with the linguistic and reading problems unique to pupils whose native language or dialect in 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 5332, and consent of instructor.

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.
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 Severe Emotional Disturbance and Autism. (3-0) Examination of historical perspective, current theories, and characteristics of severely emotionally disturbed and autistic children and youth.

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 Methods and Materials for Severely Emotionally Disturbed and Autistic. (3-0) Specific strategies and materials for effective instruction of severely emotionally disturbed and autistic students.

5314 Behavior Management for Severely Emotionally Disturbed and Autistic. (3-0) Course designed to examine theories and strategies for effective management of classroom behaviors of severely emotionally disturbed and autistic students.

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.

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.

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 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.

5364 Psychological Problems of the Mentally Retarded. (3-0) Course dealing with the theories which attempt an explanation of intellectual deficiency. Etiologies and psychological mechanisms of mental retardation studied to provide bases for improvement in the performance of mentally retarded pupils.

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 lectures from medical and para-medical fields will assist in teaching this course.

5373 Structured Language for the Slow Learner. (3-0) Basic factors of oral and written English: vocabulary, syntax, rhythm, and intonation and sound elements that create academic difficulties for pupils with specific language disorders derived from environmental influences or neurological impairment.

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

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

Bynum, James Lowell, Professor of Curriculum and Instruction. B.S., McMurry College; M.Ed., West Texas State University; Ed.D., Texas Tech University.

Dishner, Ernest, Professor of Curriculum and Instruction and Dean of the School of Education. B.A., M.A., East Tennessee University; Ed.D., University of Georgia.

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, Assistant 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., State College at Bridgewater; M.Ed., University of Guam; Ed.D., West Virginia University.

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

Hardcastle, Beverly, Assistant Professor of Curriculum and Instruction. B.A., University of Iowa; Ph.D., Arizona State University.

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

Henry, William Gammon, Jr., Associate Professor of Curriculum and Instruction. B.M., University of North Texas; M.S. in Ed., Ph.D., Indiana University.

Moore, Betty Jean, Professor of Curriculum and Instruction. B.A., Pasadena College; M.A., University of Nevada; Ph.D., University of Illinois.

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

O'Bryan-Garland, Sharon, Associate Professor of Curriculum and Instruction. B.S., M.A.T., Ed.D., Indiana University.

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

Wheeler, Larry James, Assistant 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.Ed., 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:
- **Counseling and Guidance.** The graduate counseling and guidance programs are designed to give necessary training, as well as meet academic requirements for credentials, for professional work in schools, agencies, and private practice. Highly qualified and dedicated faculty members take a personal interest in the development and placement of individual students.

  The Master of Education degree in counseling and guidance consists of a minimum of 27 semester hours of guidance-related courses and a minor of 9 semester hours in sociology or psychology. Educational Psychology 5350 should be the first course taken in the counseling and guidance program. A grade of “B” or better in Educational Psychology 5350 is required in order for students to continue in the program. Students must complete Educational Psychology 5391, Educational Psychology 5307, and Educational Psychology 5358 before enrolling 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 appropriate official transcripts and GRE scores arrive in the Office of Graduate Studies and Research. To be admitted to the program in any semester, all required application materials and transcripts must have arrived in the Office of Graduate Studies and Research prior to December 1st for the spring semester, April 15th for the summer session I, June 1st for the summer session II, and July 15th for the fall semester. Students wishing to pursue counseling and guidance as a minor for another program of study must also 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 and cannot be used as a minor for other degree programs.
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. A structured program for preparation of those interested in managing the educational enterprise. The 36-hour Master of Education degree is predicated on development of skills in behavioral science, administrative procedures, and curriculum improvement. Specific objectives address leadership, managerial principles, legal, sociological and psychological aspects of administration, and curriculum implementation. The first three courses in the program are Educational Administration 6340, Psychology 5370, and Educational Administration 5349. You must attain a 3.25 GPA to be eligible for the comprehensive examination.

Management of Vocational/Technical Education. This major is a highly specialized composite degree program. It has flexibility of course work which 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. A series of courses is also available to orient the student in vocational counseling. This non-thesis Master of Education degree requires a minimum of 36 semester hours. NOTE: MVTE cannot be used as a minor.

School Psychology. This interdepartmental (Educational Administration and Psychological Services, Psychology, and Curriculum and Instruction) course sequence leads to state certification as both a Psychological Associate and as an Associate School Psychologist. It fulfills the requirements of the Texas State Board of Examination of Psychologists and is approved by the Texas Education Agency at the state level and also accredited by both the National Association of School Psychologists and the National Council for the Accreditation of Teacher Education (NASP/NCATE) at the national level. The non-thesis Master of Education degree with a major in school psychology is a 48-hour program.

You must apply for admission to the school psychology program through the Department of Educational Administration and Psychological Services, Attn: School Psychology Program, in addition to meeting the regular Graduate School admission requirements.

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. Satisfactory performance on the Examination for the Certification of Educators in Texas (ExCET) test is required for provisional or professional certificates. No course older than six years can be used towards certification. 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 Superintendent, requiring 15 semester hours in addition to the 45 hours of Mid-Management level. These certificates fulfill requirements for administrative positions such as elementary, middle, or secondary principal, and central office positions. Post-graduates seeking administrative certification must meet entrance requirements expected of degree-seeking applicants. This certification is usually obtained after completion of the master's degree.
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 Counseling and Guidance program.

Courses Offered

Educational Administration (EDA)

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

5178 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 give 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 code: 5178A Administration.

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.

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 educative 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 extracurricular 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.

1 May be repeated once for additional credit at discretion of the Chair of the department.
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.

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

1 May be repeated once for additional credit at discretion of the Chair of the department.
2 May be taken up to three times, for a total of 9 hours credit, at the discretion of the Chair of the department.
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.

6389 **Internship Practicum**. Designed to give prospective school superintendents on-the-job training under the guidance of successful, experienced, practicing school administrators.

**Educational Psychology (EDP)**

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 area of emphasis according to this code: 5178C Counseling.

52781 **Workshop in Education**. (2-0) A workshop in innovative educational 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, skills, and knowl­edge. A letter following the course number will indicate the area of emphasis according to these codes: 5278B Administration, 5278C Counseling.

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.

5316 **Education in Multicultural Settings**. (3-0) Students will examine their own values relative to various cultural factors (lifestyle, 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 **Organization and Administration of Guidance Services**. (3-0) In-depth study of principles and practices in the organization and administration of guidance services from K-12. Topics include (1) the structure, purpose and goals of guidance services, (2) the roles and functions of administrators, guidance personnel, and teachers in the guid­ance service, (3) legal and ethical considerations of guidance personnel, (4) analysis of current counseling theories, and (5) program development and evaluation.

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1 May be repeated once for additional credit at discretion of the Chair of the department.
5352 Paraprofessional in Counseling and Guidance. (3-0) Practical problems in organizing, administering, and evaluating a counseling program utilizing paraprofessionals to provide a variety of guidance services. These problem areas will receive in-depth examination: (1) delineation of the job duties, (2) identification of requisite competencies, (3) adaptation of methods and materials, (4) provision of necessary training, (5) coordination of staff activities, and (6) evaluation of program effectiveness.

5353 Counseling and Guidance Applications of Computer Technology. (3-0) Practical problems in selecting, implementing, and evaluating computer programs for standardized testing, career counseling, educational advising, learning skills improvement, and job placement will receive in-depth examination. Hands-on operation of microcomputer hardware, evaluation and utilization of available software, and preparation of guidance materials for computer programming will be stressed.

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 Vocational Guidance and Occupational Information. (3-0) Introduction to the nature and use of occupational information in counseling and special group guidance classes; sources of information; methods of developing information through job analysis and community surveys.

5357 Individual Testing. (3-2) Problems of administering and interpreting psychological tests designed for individual administration. Study of the utilization of intelligence, proficiency and projective tests in evaluation, classification and prediction. Laboratory activities in test administration, scoring, and interpretation.

5358 Group Procedures in Guidance and Counseling. (3-0) A laboratory experience designed to provide theoretical background and practical application for techniques in group guidance and counseling. Reading in the field of group dynamics will be required. Techniques for the utilization of group guidance in the curriculum will be explored. Techniques of group therapy in the treatment of emotional and educational maladjustment will also be practiced.

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 Elementary School Counseling. (3-0) Orientation to elementary school guidance and counseling. Developmental and special needs of elementary school-aged children are analyzed. Tests and other assessment techniques are examined. Skills are developed in the three major functions of the elementary guidance worker: counseling, coordination, and consultation.

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.
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 Psychology 5376.

Prerequisites: Advance education or psychology including child development or child psychology, and consent of the instructor.

5377 Psychological Assessment II. (3-0) Advanced investigations in personality dynamics, role expectations, and projective instruments (i.e., Rorschach, Thematic Apperception Test, etc.) and their theoretical bases, construction, administration, scoring and analysis, synthesis with interview, self report, psychometric and sociometric data.

Prerequisites: Educational Psychological/Psychology 5376 or its equivalent, graduate standing, and consent of the instructor.

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.

5385 Psychological Services in the School. (3-0) Concepts and procedures utilized in the prevention, diagnosis, referral, treatment, and rehabilitation of academic and behavioral problems among some children and adolescents; consultation with school personnel regarding pupil placement, curriculum design, and the mental health of students and educational experiments.

Prerequisites: 12 semester hours of advanced education or psychology, including courses in human development, and/or consent of the instructor.

5386 Professional Problems in School Psychology. (3-0) Professional development and ethical position of the school psychologist. The role of the school psychologist in relation to school administrators, guidance and counseling personnel, teachers, parents, and others.

5389 Internship Practicum. (3-0) 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 areas according to these codes: 5389A School Psychology, 5389C Counseling, 5389W School Psychology, 5389Y Counseling.

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

5396 Advanced Psychoeducational Assessment and Remediation. (3-0) Advanced techniques for comprehensive assessment will be studied with emphasis on techniques generally not included in most test batteries. An overview of neuropsychological and other tests will be given with practice in administering, scoring, and interpreting the tests. Prerequisite: Educational Psychology 5376. Special Education 5365 is recommended.

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.

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1 May be repeated once for additional credit at discretion of the Chair of the department.
2 May be taken up to three times, for a total of 9 hours credit, at the discretion of the Chair of the department.
Graduate Faculty

Avila, Linda Dean, Assistant 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. 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.

Carns, 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.

Conoley, Colleen Wyatt, Professor of Counseling and Guidance. B.A., University of Arkansas; M.A., Ph.D., University of Texas at Austin.

Dochen, Carol, Lecturer in Developmental Education. B.S., M.Ed., Southwest Texas State University.

Garland, James Jasper, Professor of Educational Administration. B.S., M.A., Ed.D., Baylor University.

Hefner, Robert Lee, Professor of Educational Administration. B.S., East Texas State University; M.Ed., University of North Texas; Ph.D., Texas A&M University.

Howard, Sonya, Assistant Professor of Counseling and Guidance. B.S., Arkansas Tech; M.A., Ed.D., University of Arkansas.

Johnson, 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.

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., Northwest Missouri State University; M.Ed., Ed.D., University of Missouri.

Miller, Damon, Professor of Counseling and Guidance. B.S., M.Ed., Howard Payne 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.

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.

Zunker, Vernon George, Professor of Counseling and Guidance. B.S., Texas Lutheran College; M.Ed., Trinity University; Ed.D., University of Houston.
Department of Health, Physical Education, and Recreation

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 18-24 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.

  The members of the graduate faculty of the department have derived their education and training from a number of different universities and represent a variety of specializations. 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 in a variety of activity courses.

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.
  - 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 physiology) are evaluated on an individual basis.

Financial aid program:
  Assistantships are available to students who have expertise in a wide range of activities. To be considered for positions as assistant instructors, applicants must have unconditional admission to the Graduate School. Assistant instructor applications should be directed to the department Chair.

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.
5321 Public Health Education. (3-0) Theory and process of public health education including planning, change, use of media, problem solving, and program evaluation.

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.

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.

1 May be repeated once with different emphasis for additional credit.
5321 Workshop for Teachers in Physical Education. (3-0) Current problems in physical education, intramurals, curriculum, public relations, and athletics.

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.

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.

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 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.

May be repeated once for additional credit at discretion of the Chair 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 Physical 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.
Prerequisite: Successful completion of Physical Education 5346.

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.

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.

Graduate Faculty

Avent, Henrietta Hempstead, Professor of Health, Physical Education, and Recreation. B.A., University of Kentucky; M.A., New York University; D.P.E., Indiana University.

Calsbeek, Franklin, Professor of Health, Physical Education, and Recreation. B.S., Augustana College; M.S., University of Illinois; Ed.D., University of Oregon.

Furney, Steven Reed, Assistant Professor of Health, Physical Education, and Recreation. B.S., Texas A&M University; M.Ed., University of Houston; Ed.D., University of Tennessee.

Guthrie, Roger Hugh, Assistant Professor of Health, Physical Education, and Recreation. B.B.A., University of Portland; B.S., University of Oregon; M.A., California State University at Chico; Ph.D., University of Illinois.

Hays, Joan Camille, Professor of Health, Physical Education, and Recreation. B.S., University of Utah; M.S., University of Wisconsin; Ph.D., University of Texas at Austin.

Hoffmann, Keith Farrell, Associate Professor of Health, Physical Education, and Recreation. B.S. in Ed., Southwest Texas State University; M.S. in Ed., Texas A&I University; Ed.D., University of North Texas.

Johnson, Maurice Allen, Professor of Health, Physical Education, and Recreation. B.S., Minot State College; M.Ed., Springfield College; Ed.D., Arizona State University.

Jordan, Deb Jean, Assistant Professor of Health, Physical Education, and Recreation. B.S., Slippery Rock University; M.S., Western Illinois University; Re.D., Indiana University.

Murray, Tinker Dan, Associate Professor of Health, Physical Education, and Recreation. B.S., University of Texas at Austin; M.Ed., Southwest Texas State University; Ph.D., Texas A&M University.

Paese, Paul Carmine, Associate Professor of Health, Physical Education, and Recreation. B.S., M.Ed., Bowling Green State University; Ph.D., Ohio State University.

Patton, Robert Edward, Professor of Health, Physical Education, and Recreation. B.S. in Ed., M.Ed., Southwest Texas State University; Ed.D., University of North Texas.

Scott, Charlotte Robinson, Associate Professor of Health, Physical Education, and Recreation. B.S., M.A., Ph.D., Texas Woman’s University.
School of Fine Arts and Communication

Department of Art

Degree Programs

Majors and degrees offered:
The Department of Art offers neither a major nor a degree.

Program:
The Department of Art offers neither a graduate major nor a graduate minor. Graduate hours are offered in support of graduate programs in education.

Courses Offered

Art (ART)

5321\textsuperscript{1} Painting Studio. (3-3) Studio course urging independent involvement in a specialized area of painting.
Prerequisite: 6 hours of painting.

5323\textsuperscript{1} 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\textsuperscript{1} 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 Graduate School and Department of Curriculum and Instruction.

5327\textsuperscript{1} 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\textsuperscript{1} 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.

\textsuperscript{1} May be repeated with different emphasis for additional credit.
Graduate Faculty

Conroy, Michel Louise, Assistant Professor of Art. B.F.A., Webster College; M.F.A., Louisiana State University. (ceramics)

Greer, Carole Anne, Assistant Professor of Art. B.S., Kansas State University; M.F.A., University of North Texas. (drawing, printmaking)

Henry, Frances Louise, Associate Professor of Art and Supervisor of Student Teaching. B.A., Sam Houston State University; M.A., California State University at Fresno; Ed.D., Arizona State University. (art education, interrelated arts, drawing, painting, and 3-D design)

Kolbe, William DeForest, Professor of Art. B.S., Wisconsin State University; M.S.A.E., Illinois Institute of Technology. (oils, watercolor, and art education)

Marlow, Foster Leroy, Professor of Art. B.S. in Ed., M.S. in Ed., Eastern Illinois University; Ed.D., Pennsylvania State University. (art education, crafts, and design)

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)

Row, Brian Gillow, Professor of Art and Chair of the Department of Art. B.F.A., M.F.A., University of Colorado. (sculpture, drawing)

Upin, Munya Avigail, Assistant Professor of Art. B.F.A., Drake University; M.A., San Diego State University. (metalsmithing, jewelry)

Williams, Tommy Carroll, Assistant 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, Associate 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 and composition, and music history and literature, leading to the Master of Music degree with a major in Music—Performance or Music—Music Education. A flexible 36-hour program is offered which allows a choice of emphasis in any areas of music listed above. The program normally consists of a major of 21 semester hours and a minor of 15 hours. A thesis is not required; however, when theory, composition, history, or 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.

Financial aid program:
Financial assistance is available to graduate students in the Music department through appointment as assistant instructors (with teaching duties in the Department of Music) or music assistants (with a variety of duties assisting with the instructional program of the department). For further information about the degree program and financial assistance, please contact the Department of Music.

Courses Offered

Music (MU)

51361, 52361 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 toward 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.

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.

53132, 53172 Problems in Music or Music Education. (3-0) Supervised independent study of one or more problems in music or 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.

5320 Music Literature, Viennese Classical. (3-0) Style analysis of music literature from 1750 to 1830, with emphasis on Haydn, Mozart, and Beethoven.

1 May be repeated for additional credit.
2 May be repeated once with different emphasis for additional credit.
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, 19th-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.

5380 Suzuki Pedagogy. (3-0) A study designed to provide knowledge of the Suzuki method of education. An overview of the methodology and philosophy of Shinichi Suzuki as it relates to music education, with mention of the method as it could pertain to other areas of study.

Music Ensemble (MUSE)

5121 Chamber Music. (4.5-0) Already existing ensembles that deal with chamber music through study and performance.

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.


1 May be repeated for additional credit.
3 May be repeated for additional credit when topic varies.
52011 Applied Music: Graduate Organ. (0-1) Private instruction in music through performance.


52111 Applied Music: Graduate Piano. (0-1) Private instruction in music through performance.

52151 Applied Music: Graduate Voice. (0-1) Private instruction in music through performance.

53011 Graduate Organ. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

53051 Graduate Orchestral Instruments. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

53111 Graduate Piano. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

53151 Graduate Voice. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

Graduate Faculty

Belisle, John Michael, Professor of Music. B.M., Oklahoma City University; M.M.Ed., D.Mus., Indiana University. (voice, opera)

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)

Fink, Cary Michael, Assistant Professor of Music. B.M., Indiana University; M.M., University of Nebraska. (voice)

Gangel, William Dean, Assistant Professor of Music. B.M., M.M., Southern Methodist University. (guitar)

Gonzalez, Genaro, Jr., Assistant 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)

Hurt, Charles Richard, Professor of Music. B.S., University of Tennessee; M.M., Northwestern University. (trombone, low brass)

Johnson, Deana Moore, Instructor of Music. B.M., Eastman School of Music; M.M., Baylor University. (oboe)

Johnson, John Paul, Assistant Professor of Music. B.M., Westminster College; M.M., University of Wisconsin. (music education, conducting)

Laumer, Jack Charles, Associate Professor of Music. B.A., St. Olaf College; M.M., Manhattan School of Music. (trumpet)

Mosello, Adah Toland, Associate Professor of Music. B.M., M.M., Eastman School of Music, University of Rochester. (flute)

1 May be repeated for additional credit.
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. (voice)

Pino, David James, Professor of Music. B.M., M.M., Michigan State University; D.M.A., University of Texas at Austin. (woodwinds)

Reynolds, Martha Helen, Professor of Music and Supervisor of Student Teaching. B.A., Manchester College; M.M., Pius XII Institute, Villa; Ph.D., University of North Texas. (voice, 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)

Skinner, Douglas Durland, Professor of Music. B.M., M.M.F., University of North Texas. (saxophone, jazz ensembles)

Stansberry, John Clayton, Associate Professor of Music and Director of Bands. B.M.E., Drake University; M.M., Michigan State University. (conducting, music education)

Thomas, Raymond Elijah, Associate Professor of Music. 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)

Williamson, James Elwood, Assistant Professor of Music. B.M., M.A., University of Wyoming. (music education)

Wolverton, Byron Adams, Associate Professor of Music. B.M., M.A., University of Missouri; Ph.D., Indiana University. (keyboard, history, and literature)

Woolsey, Timothy Dwight, Associate Professor of Music. B.A., Trinity University; M.M., D.M.A., University of Texas at Austin. (piano)
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.

In the 36-semester hour non-thesis degree option, students generally elect 24 hours of course work in speech communication, 9 hours of course work in a cognate or minor area, and 3 hours of work on a culminating research project. The 30-hour thesis option Master of Arts program generally includes 18 hours of course work in speech communication, 6 hours in a minor field, and 6 hours of thesis credit. You should consult with the department for information concerning specific degree requirements and options.

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. 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.

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.

The department's speech communication faculty members are active in state, regional and national associations and publish widely in professional journals.

Financial aid program:
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.

1 May be repeated with different emphasis for additional credit.
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.

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.

1 May be repeated with different emphasis for additional credit.
2 May be repeated with different emphasis or topic for additional credit.
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.

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 2 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 students' 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.

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2 May be repeated with different emphasis or topic for additional credit.
Graduate Faculty

**Beebe, Steven Arnold**, Professor of Speech Communication and Chair of the Department of Speech Communication. B.S.Ed., M.A., Central Missouri State University; Ph.D., University of Missouri.

**Burkholder, Thomas Rowland**, Assistant 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 College; M.A., Ph.D., Purdue University.

**Gratz, Robert David**, Professor of Speech Communication, Associate Vice President for Academic Affairs, and Dean of the University. B.S., Lamar State College of Technology; M.A., Ph.D., Bowling Green State University.

**Ivy, Diana Kay**, Assistant Professor of Speech Communication. B.A., Texas Wesleyan College; M.A., Ph.D., University of Oklahoma.

**Salem, Philip Joseph**, Professor of Speech Communication. B.S., Northern State College; M.A., Ph.D., University of Denver.

**Schilling, Lester Lorenzo, Jr.**, Professor of Speech Communication. B.S., Western Michigan University; M.A., Columbia University; Ph.D., University of Wisconsin.

**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.
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.

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 program:
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)

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 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.

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.
5349\textsuperscript{1} 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.

5357\textsuperscript{1} 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\textsuperscript{1} 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 19th- and 20th-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\textsuperscript{1} Contemporary World Theatre and Drama. (3-0) Studies of current trends in world theatre and drama.

5370\textsuperscript{1} 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\textsuperscript{1} Studies in Advanced Theatre Directing. (3-0) A study of directors, theories, and problems of directing in the contemporary theatre.

5387\textsuperscript{1} 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.

\textsuperscript{1} May be repeated with different emphasis for additional credit.
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 College; M.A., Cornell 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, Associate Professor of Theatre Arts and Chair of the Department of Theatre Arts. B.A., M.A., Texas Tech University.

Pascoe, Charles Henry, Professor of Theatre Arts. B.S.Ed., University of North Dakota; M.S., Colorado State University; Ph.D., Southern Illinois University.

Peeler, William Ray, Assistant 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. in 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.
- Health Professions—Allied Health Education, M.S.H.P.
- Health Professions—Allied Health Research, M.S.H.P.

Major programs:
The Department of Allied Health Sciences offers the degree of Master of Science in Health Professions (MSHP) with majors in Health Professions—Allied Health Education and Health Professions—Allied Health Research. 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 are also offered, both requiring a minimum of 27 semester hours in the major.

Health Professions—Allied Health Education.
The major in Health Professions—Allied Health Education 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 Health Care Administration, the keystone of the Allied Health Education program rests on the non-traditional approach to out-reach 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 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.

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—Allied Health Education.

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.

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 full minor of 15 semester hours, or a split minor, may be taken in Health Professions—Allied Health Research. Undergraduate prerequisites for a full 15-hour minor include at least one course in statistics. Prerequisites for split minors are negotiable depending on the selection of allied health research courses.

Admission Policy. While students are accepted for any semester, the Allied Health Research program's course sequence begins during the fall semester. 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.

Communication Disorders. 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 and clinical programs are accredited by the Educational Standards Board and the Professional Standards Board of the ASHA. Prerequisite for graduate study is at least 21 semester hours of undergraduate background in the study area. If undergraduate professional preparation is sufficient, the degree may be obtained with a minimum of 27 academic hours in the major plus a clinical practicum each semester enrolled and a 9-semester hour minor. A minimum of 150 supervised practicum hours is required at the graduate level. Candidates for the communication disorders master's degree must take the National Examination in Speech-Language Pathology and provide the program director with documentation that the score will be sent to SWT prior to graduation. A thesis program is also available if you are seeking the Master of Arts degree.

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.

Majors. The degree length may vary, depending on the undergraduate background, but will 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.
Courses Offered

Allied Health Sciences (AHS)

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.

5321 Human Resource Development in the Health Sciences. (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.

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 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.

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.
5354 Computer-Assisted Instruction Design for Allied Health Education. (3-0)
Course will focus on the educational use of microcomputers in health-related settings.
Issues in program development will be explored, and implications for successful utilization
in health settings will be examined. The design of good computer-assisted instruction,
both from logic and ergonomic perspectives, will be introduced. Students will be
introduced to an appropriate language and authoring system for CAI.
Prerequisite: Allied Health Research 5161.

5355 Computer-Assisted Programming for the Allied Health Sciences. (3-0)
Course prepares the student to develop computer-assisted instruction courses for a variety
of health environments. The utility and limitations of multiple languages will be
examined, with subsequent student production concentration in only one language.
Prerequisite: Allied Health Research 5161, or approval of the instructor.

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 profession-
al 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 curricu-
ulum units to meet actual needs of the allied health sciences. Emphasis placed on needs
assessment, objective identification, content planning, and evaluation. Additional em-
phasis placed on the direction of curriculum development projects.
Prerequisites: Allied Health Sciences 5302 and approval of the Chair or the gradu-
ate 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 instruc-
tional skills and methods to meet the needs of student population and content. Addi-
tional emphasis will be placed on the direction and evaluation of instruction in field
settings.
Prerequisite: Allied Health Sciences 5440.

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 dis-
cussions related to skills required of the Allied Health Research student. Special re-
search and evaluation skills or case studies from the health field may be discussed.

1 May be repeated if topic differs.
5161 Computer Fundamentals for the Health Sciences. (1-0) An examination of basic principles of computer hardware and software needed by the health administrator or health educator with little or no prior experience with computers. Applications of micro-computers to health agencies will be introduced. The BASIC programming language will be reviewed with examples and degree of exposure appropriate for the health environment.

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 5233, or consent of instructor.

5263 Medical Applications of Computers. (2-0) An introduction for health professionals to application and potentials of computers in medicine. Topics covered include computer-aided medical diagnosis, software for the medical office and clinic medical laboratory applications, and medical record systems, as well as other clinical or diagnostic applications. In-depth, specialized study of topics are to be undertaken depending on the professional background of the student.

Prerequisite: Health Research 5161 or equivalent course; concurrent enrollment allowed.

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.

5337 Clinical Trials and Bioassay Statistics. (3-0) A survey of statistical techniques important in the analysis of biomedical data, statistical analysis related to bioassay, clinical trials, and survey research with special emphasis on mathematical modeling techniques. Confidentiality and privacy of records, safeguarding computer data, and the rights of human and animal subjects will be addressed.

1 May be repeated if topic differs.
5341 Operations Research in Health Administration. (3-0) Adaptation and application of procedures and principles of operations research to the specific needs and 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 techniques 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.

Prerequisite: Health Research 5161 or equivalent course; concurrent enrollment allowed.

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.

5381 Futures Research: Man, Technology, and Medicine. (3-0) Two optional tracks will be offered within one course: (1) a mathematical approach and (2) a social/technology impact approach. Both tracks will examine the various ideologies of futurists and the impact of global issues on the future of man. Both tracks will also be introduced to the methods of future forecasting. The mathematical track will explore forecasting methods in more detail, while the social/technology track will become involved in a detailed study of substantive areas of futures research. Group or individual projects on futures forecasting will be required.

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 the key decision makers in an agency or institution to design, develop, implement, and evaluate a specific area of study.

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 Seminar in Language Development/Disorders. (3-0) Advanced seminar on topics in the development of language and language disorders in the child. A thorough review of the current literature on the assessment and remediation of child language disorders will be emphasized. Therapeutic strategies reviewed.

5336 Neuromotor Disorders of Speech: Description and Rehabilitation. (3-0) Designed to cover neuroanatomical substrates of speech. Assessment and rehabilitation of apraxia and dysarthria; emphasis on cerebral palsy and progressive diseases of the nervous system.

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.

5342 Aphasia and Related Disorders. (3-0) A study of aphasia and acquired behavioral disorders due to lesions of the central nervous system. Assessment procedures and rehabilitation strategies for patients are examined.

5344 Advanced Clinical Practicum. (0-8) Clinical practicum for graduate students focusing on assessment and remediation of communication disorders in children and adults. Required each semester enrolled.

5359 Phonology: Development, Disorders, and Treatment. (3-0) Advanced study of the development of phonology through current literature review; emphasis on the assessment and remediation of phonological and phonetic deviations.

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.

3 May be repeated for credit.
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

Acevedo, Mary Ann, Assistant Professor of Allied Health Sciences. B.A., M.A., Ph.D., University of Texas at Austin.

Boone, Joy Louise, Associate Professor of Allied Health Sciences. B.S. in O.T., University of Kansas; M.A., University of Alabama; Ed.D., University of Houston.

Brooks, Alta Rae, Associate Professor of Allied Health Sciences. B.A., M.A., University of Kansas; Ph.D., University of Wisconsin.

Green, Don Carroll, Professor of Allied Health Sciences and Dean of the School of Health Professions. B.S., M.S., Sam Houston State University; Ph.D., Texas A&M University.

Johnson, Charles Michael, Associate Professor of Allied Health Sciences. B.S., East Texas State University; M.S., Ph.D., Texas A&M University.

Mallard, Arch Richard, III, Professor of Allied Health Sciences. B.A., M.A., University of North Texas; Ph.D., Purdue University.

Mooney, Robert Thurston, Associate Professor of Allied Health Sciences. B.S., M.Ed., Texas A&M University.

Upchurch, Marian Lee, Associate Professor of Allied Health Sciences. B.S., Northwestern University; M.P.H., University of North Carolina; Dr.P.H., University of Texas at Houston.

Varenhorst, Deanne French, Professor of Allied Health Sciences. B.S., M.S., Ph.D., University of Texas at Austin.

Ward, Doyle Glynn, Professor of Allied Health Sciences. B.A., Harding College; M.A., University of Illinois; Ph.D., University of Missouri.

Welborn, Ruth Buckhannon, Associate Professor of Allied Health Sciences and Chair of the Departments of Allied Health Sciences and Health Administration. B.S.N., University of Texas School of Nursing; M.A., University of Texas at San Antonio; Ph.D., Texas A&M University.

3 May be repeated for credit.
Department of Health Administration

Degree Programs

Major and degree offered:
Health Professions—Health Care Administration, M.S.H.P.

Major programs:
The Department of Health Administration offers the 38-56 semester hour degree of Master of Science in Health Professions with a major in Health Professions—Health Care Administration.

Purpose. The Department of Health 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 health care; and management and organizational behavior including such specializations as financial management, human resource management, planning, marketing, and data generation and analysis.

Majors. The major in Health Professions—Health Care Administration usually includes 27-33 hours of core courses and either a field experience of 4-8 hours or a thesis worth 6 hours, depending on the student's previous health administration experience. A full minor of 15 hours is required. The minor may be taken in either Health Professions—Allied Health Education or Health Professions—Allied Health Research (can also be split between both programs with a minimum of 6 hours in one of the programs).

Prerequisites. Course prerequisites for Health Professions—Health Care 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), and management information systems (Health Administration 4340). 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—Health Care 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

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 current 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 Medical Jurisprudence. (3-0) A broad review of healthcare liability and medical malpractice as it affects the physician, healthcare provider, and the healthcare institution.

5331 Comparative Health Systems. (3-0) Course will analyze the nature, function, and composition of the health sector in developed and developing countries within the context of the economic and political environment that determines that sector.

5341 Healthcare Delivery Systems: Project Design and Evaluation. (3-0) Methods of determining health needs and demands for healthcare services. Planning for health programs and evaluation techniques and methodologies; selecting criteria and data for problem definition in the healthcare delivery sector.
Prerequisite: Health Administration 5346.

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.

1 May be repeated if topic differs.
2 May be repeated if area differs.
5354 Healthcare Organization and Delivery. (3-0) Focus on the organization and delivery of personal health services. Course traces the history of the development of the community hospital with particular emphasis on its relationship to other elements of the health and medical care delivery system. Similar attention is given to the predominant methods of delivering outpatient services such as solo fee for service practice and multispecialty group practice. Organization and delivery of mental health services and long-term care services are also considered. Particular attention is focused on the changes in traditional methods brought about by changing patterns of medical practice and the methods of financing personal health services. Major attention is also given to the emergence of organized systems of care such as HMOs and PPOs.

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 placed 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.

5357 Labor Relations in Healthcare Facilities. (3-0) Designed to give a basic understanding of the dynamics of the field of labor relations and collective bargaining in the health service industry. Course emphasizes the roles of the personnel specialist and other parties in such vital areas as labor relations policy and the law, the collective bargaining process, contract administration, grievance systems, strikes and arbitration.

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.

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 Administration 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.

3 May be repeated for credit.
Graduate Faculty

Belchic, Albert Mitchell, Assistant Professor of Health Administration. B.S., Louisiana State University; J.D., Southern Methodist University; M.S., Trinity University.

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.

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, Carmen Acosta, Assistant Professor of Health Administration. B.A., University of Kansas; M.A., University of Houston; Ph.D., University of Texas School of Public Health at Houston.

Khouri, Yvonne George, Associate Professor of Health Administration. B.S., B.A., Stetson University; M.S.H.A., Northwestern University.

Knox, Martha Elizabeth, Associate Professor of Health Administration. B.S., M.A., Ed.D., Texas Woman's University.

Nowicki, Michael, Assistant Professor of Health Administration. B.A., Texas Tech University; M.A., The George Washington University; Ed.D., University of Kentucky.

Summers, Jim, Assistant Professor of Health Administration. B.A., University of North Texas; M.A., Ph.D., Tulane University.

Winfield, Darwin Eugene, Associate Professor of Health Administration. B.S., Louisiana Polytechnic Institute; M.S., Northwestern University.
School of Liberal Arts
Department of English

The Therese Kayser Lindsey Chair of Literature

The late 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, the late Therese Kayser Lindsey. A noted poet and patron of arts, Mrs. Lindsey attended Southwest Texas State Normal in the early 1900's and graduated with the second graduating class in 1905. 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 fostered lecture series on such diverse topics as American Humor, the American Southwest, Contemporary Women Writers, and Texas Humor. Noted artists such as James Dickey, Carolyn Osborn, Larry McMurtry, Richard Wilbur, John Henry Faulk, Alice Walker, and Margaret Atwood have appeared in connection with these lecture series and other events sponsored by the Lindsey Chair of Literature.

The distinguished American scholar-teacher and long-time editor of American Literature, Arlin Turner, was the first full-time Lindsey Professor (1979-1980). During Professor Turner's tenure, the department sponsored a Conference on American Humor featuring such well-known scholars as John Gerber, J. A. Leo Lemay, Brom Weber, and Hamlin Hill.

Degree Programs

Major and degrees offered:

- English, M.A., M.Ed.

Major programs:

The Department of English offers two graduate degrees for majors: (1) the Master of Arts degree requiring earned credits for a minimum of 30-semester hours of work that includes a 6-hour thesis and 6 to 9 hours in a minor and (2) the 36-hour non-thesis Master of Education degree requiring a 21-hour concentration in English and a 15-hour minor (which may be split into minors of 6 and 9 hours). With departmental approval, you may structure several acceptable patterns of work under each degree plan. 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.

Highly qualified students may apply for permission to substitute a creative writing project for the Master of Arts degree's thesis requirement.

The Department of English also participates in the Interdisciplinary Studies graduate program, particularly in the linguistics and effective communications courses.

Minors. Candidates for the Master of Education in English who elect to take a split minor may take a 9-semester hour English/Secondary Education/Reading Education pedagogical minor comprised of Reading 5324 (Teaching Reading in the Secondary School) and 6 hours of English courses selected from English 5300, 5310, 5383, 5384, and 5387.

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 the major field of study.
Financial aid program:

Graduate students in English may apply to the department for appointment as either assistant instructors (A.I.'s) or instructional assistants (I.A.'s). Those appointed to either type of teaching 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)

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.

53102 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.

53181-2, 53191-2 Effective Communications. (3-0)

53212 Contemporary Fiction. (3-0)

53233 Eminent Lives in Literature. (3-0) A study of selected works in autobiography and biography with special attention in the art forms used in these works.

53252 Reflections of Life in the Lore and Literature of the Southwest. (3-0)

53312 Studies in American Poetry. (3-0)

53322 Studies in American Prose. (3-0)

53532 Studies in Medieval English Literature. (3-0)

53542 Studies in English Renaissance Literature. (3-0)

53552 Studies in Eighteenth-Century Literature. (3-0)

53642 Studies in the English Romantic Movement. (3-0)

53662 Studies in Victorian Poetry. (3-0)

53682 Studies in Victorian Prose. (3-0)

53712 Studies in British Poetry: 1880-1940. (3-0)

53812 Studies in Modern British and American Drama: 1900-Present. (3-0)

53831-2 Teaching English Composition in Middle and Secondary Schools and Community Colleges. (3-0)

53841-4 Literary Analysis for Middle and Secondary and Community College Teachers. (3-0)

53871-4 Concepts, Materials, and Methods of Teaching English. (3-0)

53881 Studies in Literature for Children or Adolescents. (3-0)

53952 Problems in Language and Literature. Open to graduate students on an individual basis by arrangement with the department.

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1 May not count as credit toward meeting minimum requirements for the Master of Arts in English without permission of the Chair of the department.
2 May be repeated once with different emphasis for additional credit.
3 May not be taken for graduate credit if the undergraduate companion course (4000 level) has been completed.
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 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.

Graduate Faculty

Bell-Metereau, Rebecca Louise, Associate Professor of English. A.B., A.M., Ph.D., Indiana University.

Blanchard, Lydia Ann, Associate Professor of English. B.S., M.S., Northwestern University; M.A., Ph.D., American University.

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.

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 and Assistant Dean of the College of General Studies. B.A., State University of New York at Plattsburg; A.M., Ph.D., Indiana University.

Gravitt, Garland Jack, Professor of English. 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. B.A., Luther College; M.A., Ph.D., Southern Illinois University.

Heaberlin, Dickie Maurice, Associate Professor of English. B.A., M.A., University of North Texas; Ph.D., University of Texas at Austin.

Hennessy, 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, Assistant 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, Associate Professor of English. B.A., University of Leicester; Ph.D., University of Cambridge.

Laird, Edgar Stockton, Professor of English. B.A., M.A., Southwest Texas State University; Ph.D., Rutgers, The State University.

Lochman, Daniel Thomas, Associate Professor of English. B.A., M.A., Loyola University; Ph.D., University of Wisconsin.

Parkin-Speer, Diane, Professor of English. B.A., Lewis and Clark College; M.A., Bowling Green State University; Ph.D., University of Iowa.

Peterson, Norman Clair, Professor of English. B.A., M.A., University of Texas at Austin; Ph.D., University of Iowa.
Randolph, Robert Morrison, Assistant 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, Assistant Professor of English. A.B., Miami University; M.A., Ph.D., University of Wisconsin.

Starling, Betty Ross, Associate Professor of English. B.A., Harding College; M.A., Ph.D., University of Texas at Austin.

Stedman, Nathan Alexander, III, Associate Professor of English. B.B.A., University of Texas at Austin; M.A., Texas Christian University; Ph.D., Florida State University.

Tangum, Marion Mast, Assistant Professor of English. B.A., Trinity University; M.A., University of Texas at San Antonio; Ph.D., University of Texas at Austin.

Taylor, Mary Agnes, Professor of English. B.A., Southwest Texas State University; M.A., San Francisco State University.

Thompson, Robert Bryan, Assistant Professor of English. B.S. in Ed., B.A., University of Texas at Austin; M.A., Stephen F. Austin State University; Ph.D., University of Iowa.

Wimsatt, Mary Ann, Associate Professor of English. A.B., Stetson University; M.A., Ph.D., Duke University.
Department of Geography and Planning

Degree Programs

Major and degree offered:
Applied Geography, M.A.G.

Major programs:
The Department of Geography and Planning offers the Master of Applied Geography degree requiring 39-semester hours of course work. This includes a core of 9 hours that all students must take and a 15-hour concentration in either: (1) physical and environmental studies, (2) land/area development and management, or (3) applied cartography/geographic information systems. Instead of selecting a concentration, you may select to pursue a general geography degree from the courses offered within the three concentrations. You must also have a 6-hour resource area from outside the department. Thesis or internship options must be chosen to complete the degree. If you choose to write a thesis, you must also complete a 3-hour internship course. If you select the 6-hour internship option, you must enroll in a 3-hour directed research course in lieu of the thesis. Please contact the graduate adviser in the Department of Geography and Planning for the specific requirements of each concentration. Students are also subject to the degree requirements outlined in the departmental graduate student handbook.

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 subfields as environmental management, land use planning, location analysis, land management, transportation systems planning, applied physical geography, geographic aspects of environmental law, and cartography. 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 persons who intend to proceed to doctoral work in appropriate fields.

Financial aid program:
Teaching assistantships and work-study programs are available to qualified candidates. Please contact the graduate adviser, Department of Geography and Planning, for more information about the degree program and financial assistance.

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.

5191 Teaching Assistant Development. (1-0) Prepares the student for the professional responsibilities of college teaching. Course covers teaching methods, the role and behavior of a professional geographer, and responsible classroom administration.

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 on the scientific method, productive library research, data collection and analysis, field work, effective writing, and the nature of graphic representation.

1 Geography 5190, Geography 5290, and Geography 5390 may be taken for a total of 6 semester hours of credit.
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-X) on an interactive computer terminal.

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 location 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 nonresidential 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.

\(^2\) May be repeated once for additional credit with approval of graduate adviser.
5338 Land Use Planning. (3-0) Student 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. All 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.

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 of the 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 individual professors.

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 atlases. Course will focus on the use of scribecoats, peelcoats, and photographic methods for compiling line work, point systems, area shadings, and lettering into a cartographic composition. 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.

1 Geography 5190, Geography 5290, and 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.
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 individual professors.

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.

Boehm, Richard Glen, Professor of Geography and Planning and Chair of the Department of Geography and Planning. B.S. in Ed., M.A., University of Missouri at Columbia; Ph.D., University of Texas at Austin.

Day, Frederick Albert, Assistant Professor of Geography and Planning. B.A., Syracuse University; M.A., Ph.D., Ohio State University.

Fitzsimons, Dennis Eugene, Associate Professor of Geography and Planning. A.B., M.A., San Diego State University; Ph.D., University of Kansas.

Gordon, William Reginald, Jr., Assistant Professor of Geography and Planning. B.A., University of Southern Maine; M.A., M.M.A., University of Rhode Island; Ph.D., Texas A&M University.

Harrison, James Douglas, Professor of Geography and Planning. B.A., M.A., University of Denver; Ph.D., University of Oklahoma.

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, Assistant Professor of Geography and Planning. B.A., M.A., University of Queensland; Ph.D., University of Illinois at Urbana.

Napton, Darrell Eugene, Assistant Professor of Geography and Planning. B.S. in Ed., M.A., University of Missouri; Ph.D., University of Minnesota.

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.

Visser, Sent, Associate Professor of Geography and Planning. B.A., M.A., University of Auckland, New Zealand; Ph.D., Ohio State University.
Department of History

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, including thesis, and 6 hours of graduate work from a minor field. The Master of Education degree consists of at least 21 hours of history and 15 hours of work from a minor field or a split minor with 9 hours from one field and 6 hours from a second field.

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 aiming for positions in business, journalism, law, government service, and the like. 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.

Financial aid program:
Limited graduate assistantships and assistant instructorships are available to capable students. Normally, beginning graduate students start as graders in large sections of the American History survey and then, in the second year, teach two small sections of their own.

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)

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 Eighteenth-Century England: From the Glorious Revolution to Waterloo. (3-0) A seminar based on selected topics in political, social, intellectual, and economic history of England from 1688 to 1815.

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.

5347 Texas History. (3-0) A seminar based on selected topics in the history of Texas.

5348 Diplomatic History of the United States to 1898. (3-0) A seminar based on selected topics in the early diplomatic history of the United States.

5349 Diplomatic History of the United States since 1898. (3-0) A seminar based on selected topics in recent 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 Problems in American Military History. (3-0) A seminar based on selected topics in the military history of the United States.

5365 Contemporary Europe. (3-0) An intensive study of problems of Europe since 1919, based on independent research and writing by the student.

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.

5380 Teaching American History: Materials and Methods. (3-0) An introductory course designed to orient the beginning graduate student to teaching American history at the college level.

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.

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¹ May be repeated with different emphasis.
² May be repeated with the approval of the Chair of the department.
Graduate Faculty

Anderson, William Woodrow, Professor of History. B.A., Baylor University; M.A., Ph.D., University of Texas at Austin. (Latin America)

Brown, Ronald Conklin, Professor of History. A.B., Wabash College; A.M., Ph.D., University of Illinois. (American West, labor, social, economic)

Dunn, Dennis John, Professor of History. 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 College; 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)

Margerison, 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)
Department of Modern Languages

Degree Programs

Majors and degrees offered:
  French, M.A.T.
  German, M.A.T.
  Spanish, M.A., M.A.T.

Major programs:
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-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 supporting area, 6 hours of internship and foreign study, and a minimum reading knowledge of a second foreign language.

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 21 to 24 hours in Spanish, including the thesis, and 6 to 9 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.

53901 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 Chair of the department.

French (FR)


53061 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 through the eighteenth century. 5306A Middle Ages through Sixteenth Century. 5306B Seventeenth and Eighteenth Centuries.

1 May be repeated once with different emphasis for additional credit.
53071 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.

53091 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.

53901 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 Chair of the department. 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)

53051 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.

53061 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.

53071 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.

53091 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.

53901 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 Chair of the department. 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.

1 May be repeated once with different emphasis 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, Gabriel Mistral, Pablo Neruda, and Miguel Asturias; 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 Chair of the department. 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.

1 May be repeated once with different emphasis for additional credit.
Graduate Faculty

Brister, Louis Edwin, Professor of German. B.A., Mississippi State University; M.A., Ph.D., University of Texas at Austin.

Carlisle, Charles Richard, Professor of Spanish. B.A., M.A., Ph.D., University of Arizona.

Champion, James Joseph, Professor of Spanish. B.S., Michigan State University; M.S., Ph.D., University of Michigan.

Echeverria, Miriam Balboa, Assistant Professor of Spanish. B.A., Universidad de Concepcion; 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.

McCoy, Ingeborg Ruberg, Professor of German. B.A., Southwest Texas State University; M.A., Ph.D., University of Texas at Austin.

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.

Tamargo, Maria Isabel, Associate Professor of Spanish. B.A., Inter American University of Puerto Rico; M.A., Ph.D., Johns Hopkins University.

Ugalde, Sharon Elizabeth, Professor of Spanish. B.A., University of California at Davis; M.A., Ph.D., Stanford University.
Department of Political Science

Degree Programs

Majors and degrees offered:

Political Science, M.A., M.Ed.
Public Administration, M.P.A.

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. An optional 3-hour public service internship is provided for pre-service students in the MPA program. The 3 hours of internship are in addition to the 39-hour MPA degree program.

The 30-hour MPA core includes the following courses: Political Science 5304 (twice); Political Science 5309; Political Science 5310; Political Science 5311; Political Science 5315; one course selected from Political Science 5321, Political Science 5322, or Political Science 5323; Political Science 5328; one course selected from Political Science 5340, Political Science 5341, or Political Science 5343; and Political Science 5397.

Background work (Political Science 5350, a special seminar that provides a comprehensive background in American Political institutions) will be required for students with fewer than 6 hours of upper-division credits in Public Administration or Political Science. For 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.

An oral comprehensive examination over course work and the Public Administration reading list will be required for completion of the MPA degree requirements. The reading list is available in the public administration program office, 333 Evans Liberal Arts Building.

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. The course is not repeatable for credit.
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 reregister 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.

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) and ICPSR (Inter-University Consortium for Political and Social Research), a data bank and computer tape exchange located at the University of Michigan.

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 U.S. school.

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 who do not meet these 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.

Students who are admitted conditionally are restricted to 6 semester hours of credit and must make a "B" or better in each course completed. When the requirements for conditional admission have been met, the student is eligible for regular admission. All required materials must be submitted prior to committee review. Students who are admitted conditionally must make a grade of "B" or better in each course completed for their first 12 hours of course work. If a student makes a "C" or below in any course, the student cannot enroll in the next course until such time as the course is repeated and a grade of "B" or better is earned. The CAR Committee will set the stipulations and requirements for conditional admission.
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 the MPA program. 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
- Political Science 5396-6396

**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.
- **5305** Problems in Comparative Government and Politics. (3-0) The intensive study of selected areas in comparative political institutions.

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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.
5309 The Public Management Profession. (3-0) A critical survey of the theories, paradigms, and practices which form the foundations of public administration in the United States. Designed for beginning graduate students who have no academic background in public administration or who have not had a strong background in public service.

5310 Studies in Public Administration and Management. (3-0) Studies in the application of organization and management theory and practice to the several environments of public administration and management in the United States. Topics will vary.

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.

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.

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, intra-state 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.

* May be repeated 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 Economic and Social Problems of International Relations. (3-0) Deals with selected topics in the economic and social fields of international relations.

5382 Problems in World Political Geography. (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.

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 once 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.
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.

5395S-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 timekeeping, minimum fee schedules, billing, library and retrieval systems, ethics, and other management practices applicable to utilization of Legal Paraprofessionals in law-related positions.

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2 May be repeated once with different emphasis and professor for additional credit.
5 May be repeated twice with different emphasis and professor for additional credit.
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 and Director of the Lawyer's Assistant Program. B.A., Southwestern College; J.D., Washburn University.

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.

Curry, Landon, Jr., Lecturer in Political Science. B.A., University of Texas at Austin; M.A., Ph.D., University of California at Berkeley.

Farlow, Daniel Edward, Professor of Political Science. B.S., M.A., Sam Houston State University.

Fralin, Richard, Assistant Professor of Political Science. B.A., University of Richmond; M.A., George Washington University; Ph.D., Columbia University.

Garofalo, Charles Paul, Lecturer in Political Science. B.A., University of Florida; M.A., Ph.D., Emory University.

Gorman, Robert Francis, Associate 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 College; M.A., Ph.D., University of Notre Dame.

Hofer, Martha Kay, Assistant Professor of Political Science and Director of the Master of Public Administration Program. B.A., M.A., University of North Texas; Ph.D., University of Nebraska at Lincoln.

Kens, Paul Adam, Assistant 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., Brooklyn College; M.A., Washington University; Ph.D., Indiana University.

Murphy, Maxwell Cole, Jr., Lecturer in Political Science. B.A., United States Military Academy; M.A., University of Virginia; Ph.D., University of Texas at Austin.

Opheim, Cynthia Slaughter, Assistant 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.

Swanson, Cheryl Gene, Lecturer in Political Science. B.A., Knox College; M.A., Ph.D., University of Oklahoma.

Weinberger, George Martin, Professor of Political Science. B.A., Temple University; M.P.A., D.P.A., University of Georgia.

Yundt, Keith William, Lecturer in Political Science. B.A., Pennsylvania State University; M.A., Ph.D., Kent State University.
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 of psychology and sociology.

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 their adviser.

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 The Appraisal and Modification of Emotional Disturbances in Children. (3-0) A review of selected models of human behavior. Emphasis on understanding and modifying maladaptive behavior in school-age youngsters.

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.

* May be repeated once for credit if topic differs.
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 3387/5320.

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.

**Oles, Henry John**, Professor 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.

**Rosenwasser, Shirley Miller**, Professor of Psychology. B.A., McPherson College; M.A., Ph.D., University of Michigan.

**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.

**Szekely, Barbara Caroline**, Assistant Professor of Psychology. B.A., University of Hawaii; M.A., Duquesne University; Ph.D, University of Pittsburgh.

**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.

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 who are not involved in public school teaching may select from a variety of approved minors. The selection process should be accomplished in consultation with the departmental graduate adviser.

Purpose. The Master of Arts in Teaching has two basic goals. The first goal is to enhance the competencies of persons who will teach in community colleges or public schools. The second goal is to provide a sound general background for those who anticipate further graduate training beyond the master's degree. The program is open to those who wish to extend their training or second teaching field. Individuals without secondary certification in sociology may combine the graduate program with selected required undergraduate courses to obtain certification in sociology. Or you may combine graduate instruction in sociology with supporting work in Junior College Education to achieve competencies for junior college training.

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-two hours in sociology and 9 hours in a first and 6 hours in a second minor. The minors may be selected from teaching areas for which the individual is already certified at the secondary level or may be divided between a second teaching field and a substantive area of education.

2. Twenty-five hours in sociology and 12 hours in a minor, either in a second teaching field or a substantive area of education.

3. Twenty-eight hours in sociology and 9 hours of supporting work in a second teaching field, in an area or option in education, or in an education major such as Counseling and Guidance.

Background:
If you do not have undergraduate sociology training in principles (introduction), theory, statistics, and research, you must complete undergraduate courses in each of these areas. Dependent on the extent of your undergraduate training in sociology or related fields, you may be permitted to take up to 6 hours of selected graduate courses before completing these undergraduate requirements.

Financial aid program:
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 assistant instructors 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 M.A.T. students in the first long semester of enrollment.

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 Seminar 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 and demographic analysis, and population composition and forecasts.

5337 Seminar in the Family. (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.

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.

5353 Seminar in the Community. (3-0) A study of contemporary urban society with emphasis on understanding the social structures as a prerequisite to planning the problem solving at the community level.

5360 Seminar in Social Change. (3-0) An intensive examination of social change in selected problematic areas of current social concern, relating these changes to broader theories of social change, and giving attention to major research studies in these areas.

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.

5373 Workshop in Sociology. (3-0) Selected topics in sociology for intensive examination utilizing a variety of sociological resources and methods. 5373 General Workshop. 5373A Theory and Methods. 5373B Social Gerontology. 5373C Death and Dying.

1 May be repeated once with different emphasis for additional credit.
5376A Images of Women. (3-0) This course, one of two multi-disciplinary 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 multi-disciplinary 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, 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.

5398 Internship in Sociology. (3-0) Supervised work experience which requires application of sociological theory and research methods in an organizational setting.

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

Corrie, Walter Samuel Jr., Professor of Sociology. B.A., M.A., Baylor University; Ph.D., State University of Iowa.

Day, Susan Hilbert, Assistant 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.

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. B.S., M.S., University of North Texas; Ph.D., University of Texas at Austin.

Newsom, Rollo Kern, Professor of Sociology and Vice President for Academic Affairs. 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, Chicago.

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.

Watts, Wilford David, Jr., Professor of Sociology and Chair of the Department of Sociology-Anthropology. B.A., University of Texas at Austin; M.A., Ph.D., State University of New York at Buffalo.

Williams, Frank Robert, Assistant Professor of Sociology. B.S., M.S., East Texas State University; Ph.D., University of North Texas.
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 may elect one of four degree options: the Master of Science with or without thesis, the Master of Arts, and the Master of Education.

The thesis-oriented Master of Science and Master of Arts degrees each require a minimum of 30 semester hours of course work including the thesis (5399A/B). The degree major will consist of a minimum of six courses and the thesis, and the minor will consist of a minimum of two courses. Biology 5295 and three one-hour seminars (5110) may also be required. The Master of Arts generally requires the minor to be taken outside the sciences. The Master of Science requires that the minor must be from the sciences. A 36-hour non-thesis Master of Science degree is available for those individuals having a minimum of two years of teaching experience and who intend to continue teaching as a career.

The 36-hour non-thesis Master of Education degree requires that 9 semester hours of course work be completed in the School of Education. The required 15-hour minor for the Master of Education must be taken outside the sciences. A split minor of 9 hours (first minor) and 6 hours (second minor) is also available. Students working toward the Master of Education degree do not take fundamentals of research (5295) but are required to complete the three one-hour seminar courses.

Prerequisites and admission policy. 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 in order for unconditional admission to be considered, provided that the undergraduate degree includes at least seven courses in biology distributed as follows: introductory botany, introductory zoology, a course in physiology, a course in genetics, a course in cell biology or microbiology, a course in ecology, and an advanced course. 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). All graduate school applicants are also expected to complete the GRE as outlined earlier in this catalog.

Conditional admission may be given (1) if a student has a GPA of at least 2.5 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 900 or (2) if the student has an insufficient background in biology. The conditions of admission will vary according to the individual's qualifications.

Although not required prior to being accepted, all students who will be completing a master's degree in biology must have taken two semesters of introductory chemistry and either two semesters of organic chemistry or one semester of organic chemistry and one semester of biochemistry. If these have not been completed as part of the undergraduate program, they are taken as background courses for the graduate degree.

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, environmental science.

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.
Science Education  Earth science, biological instruction and teaching curriculum, development and evaluation.
Wildlife Management  Mammalogy, vertebrate natural history, community ecology.
Zoology  Entomology, ornithology, vertebrate morphology, paleontology, biomechanics, embryology, histology.

**Minor programs.** The 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 with thesis may be selected with the approval of the supervising professor and the graduate adviser.

**Financial aid program:**
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 Chair, and completed applications are due by March 1 to be considered for the following school year. A limited number of research assistantships are also available in certain areas.

**Courses Offered**

**Biology (BIO)**

51101 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)
5110W Wildlife Biology. (1-0)

5295 Fundamentals of Research. (2-0) Designed to acquaint the beginning graduate student with materials and methods of research in the biological sciences.

A graduate student majoring in biology may be required to take this course in addition to the standard requirements for the advanced degree.

5301 Evolution. (3-2) Basic genetic principles applied to natural selection, adaptation, populations, speciation, and man’s future. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems, and certain other selected topics. Laboratory is by special arrangement. (S,SS)
Prerequisite: 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)

5312 Radiation Biology. (2-3) Ionizing radiations and their effects on biological systems. Use of radioactive materials in experimental biology will be introduced. (SS)

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1 This course may be repeated for credit.
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.

5319P Plankton. (3-3)

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)
Prerequisite: Biology 4315-5315, or consent of instructor.

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.
Prerequisite: Biology 5325 or Biology 5315 or Biology 5313, or consent of instructor.

5345 Advanced Genetics. (3-2) Inheritance of biochemical and physiological characteristics, medical genetics, and modifications of genetic systems by radiations and chemicals. The genetic systems of various organisms are included but reference and application to the genetic system of humans are emphasized. (S)
Prerequisites: Biology 3450 and a background in physiology. Biology 4301 and biochemistry are recommended.

5350 Topics in Physiology. (3-0) Selected topics in plant, microbial, and animal physiology.

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.
Prerequisites: Biology 3460 and Biology 4370.

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.

5381 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.

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 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 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.

This course may be repeated once for credit.
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. Emphasis is placed on plant-soil-water relationships to develop conservation concepts. Students will make a representative collection of plants. (F,SS)

5411 Morphology of the Vascular Plants. (3-3) The structure, life-cycles, and evolution of fossil and living vascular plants. Emphasis on such topics as the origin of land plants, evolution of the ovule, angiosperm, 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)

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)

5420 Field Biology of Animals. (3-3) Environmental relationships and natural history of invertebrates and vertebrates. Emphasis is on taxonomy, speciation, and biotic provinces. Laboratory will include field trips for the study and collection of animals in their natural habitats. Students will assemble a representative collection of animals. (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. 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 principles of ecology and natural history to the management of wildlife habitats and control of wildlife 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 little understood and new information.
Prerequisites: Biology 4323, Biology 4321, and Biology 4322.

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,SS)
Prerequisite: One year of mathematics.

2 This course may be repeated once for credit.
5440 **Pathogenic Fungi.** (2-6) 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 **Cell Physiology.** (3-3) A molecular approach to the functions of cells. Includes principles of thermodynamics, bioenergetics, membrane functions, and molecular genetics. (S)

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.** (2-6) 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.

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 in the laboratory.

5460 **Advanced Invertebrate Zoology.** (3-3) Course will be concerned with specific taxa and on special aspects of invertebrate zoology. Topics offered include evolution of organ systems, systematics, larval types, aquaculture, and other special topics of natural history.

Prerequisite: Biology 3470.

5463 **Toxicology.** (3-3) The adverse effects of chemicals on living organisms, populations, and ecosystems.

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)

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)

5480 **Cytology and Microtechnique.** (3-3) Study of cellular ultra-structure 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).

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)

Anderson, Richard Orr, Adjunct Professor of Biology. B.S., University of Wisconsin; M.S., Ph.D., University of Michigan. (fisheries management)

Applegate, Richard Lee, Adjunct Professor of Biology. B.A., M.A., Southern Illinois University at Carbondale; Ph.D., South Dakota State University. (fishery science)

Aron, Gary Michael, Professor of Biology. B.S., M.S., St. John's University; Ph.D., Pennsylvania State University. (microbiology, virology)

Averett, John, Adjunct Professor of Biology and Director of Research, National Wildflower Research Center at Austin. B.S., M.A., Sul Ross State University; Ph.D., University of Texas. (chemicals taxonomy of plants)

Baccus, John Thomas, Professor of Biology and Acting Chair of the Department of Biology. B.S. in Ed., M.S., Midwestern University; Ph.D., University of North Texas. (wildlife, community ecology)

Benjamin, Caroline Pitcher, Associate Professor of Biology. B.A., Harpur College; M.A., Ph.D., Indiana University. (embryology, developmental biology)

Brandt, Thomas Michael, Adjunct Professor of Biology. B.A., St. Mary's College; M.S., Virginia Polytechnic Institute and State University; Ph.D., Kansas State University. (fish nutrition)

Fonteyn, Paul John, Associate Professor of Biology. B.S., University of San Francisco; M.A., Ph.D., University of California at Santa Barbara. (plant ecology)

Hannan, Herbert Herrick, Professor of Biology. B.S. in Ed., M.A., Southwest Texas State University; M.A.T., Brown University; Ph.D., Oklahoma State University. (limnology)

Harvey, William Drewie, Adjunct Professor of Biology and Director, State Fish Hatchery at San Marcos. B.S., Ph.D., Texas A&M University. (fisheries ecology)

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, Associate Professor of Biology. B.S., M.S., University of Oregon; Ph.D., University of Alberta. (cell biology, physiology)

Kroschewsky, Julius, Adjunct Professor of Biology. B.A., M.A., Ph.D., University of Texas at Austin. (cell physiology, genetics, phytochemistry)

Lemke, David Edward, Assistant Professor of Biology. B.S., Bucknell University; Ph.D., University of Texas at Austin. (plant taxonomy, plant systematics)

Lewis, Melanie Carol, Associate 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, Adjunct Professor of Biology and Director of the National Wildflower Research Center. B.A., Ph.D., University of Texas at Austin. (plant taxonomy, plant systematics)

Rosenblum, Paul Martin, Assistant Professor of Biology. B.A., Beloit College; M.A., Anna Maria College; Ph.D., Boston University. (fish physiology and endocrinology)

Schneider, Edward Lee, Professor of Biology and Dean of the School of Science. B.A., M.S., Central Washington State College; Ph.D., University of California at Santa Barbara. (plant anatomy, morphology, pollination biology)

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, Assistant Professor of Biology. B.A., Queens College; Ph.D., City University of New York. (functional morphology of vertebrates, evolution)

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)

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)

Young, Willard Cooper, Professor of Biology. B.S., M.A., University of Texas at Austin; Ph.D., University of Colorado. (freshwater ecology)
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-hour thesis) and a minor of 9-6 hours from within the School of Science.
Generally, an undergraduate major in chemistry is required for admission into this pro­
gram.

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 fields of chemistry. Specific research areas include:
Analytical  atomic absorption, chromatography, electrochemistry, spectral meth­
ods;
Biochemistry  enzyme isolation, enzyme mechanisms, protein synthesis;
Inorganic  synthesis and structure of organometallic compounds, boron-nitrogen
compounds, coordination chemistry, bioinorganic chemistry;
Organic  polymer synthesis and characterization, physical organic studies, syn­
thesis; and
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 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 gradu­
ate adviser) on the basis of interviews, letters of recommendation, laboratory
ability, and the availability of space in the departmental research laboratories.

Financial aid program:
  Graduate students are encouraged to work as laboratory teaching assistants. A lim­
ited number of research assistantships are also available at pay similar to that of labora­
tory teaching assistants.
Courses Offered
Chemistry (CHEM)

5110 Seminar in Chemistry. (1-0) A graduate student majoring in chemistry is required to absolve a minimum of four semester hours in this course in addition to the standard requirements for the advanced degree.

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-based concepts, physical organic chemistry, reactive species.
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. 5325C Advanced Physical Chemistry. The application of quantum mechanics to vibrational, rotational, and electronic spectroscopy is discussed.

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.

1 May be repeated once for additional credit.
2 May be repeated as needed.
5350 Selected Topics in Organic Chemistry. (3-0) The topics offered periodically are: 5350A Organic Mechanisms and Reactions. Organic reactions are discussed by mechanism classification with emphasis on structure-reactivity relationships and solvent effects on reactions. 5350B Polymer Chemistry. Discusses polymer terminology, synthesis, and characterization.
Prerequisites: Chemistry 2420 and Chemistry 3440.

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. (F)
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. 5360C Transition Metal Chemistry and Homogeneous Catalysis. Structure and reactivity in transition metal complexes are examined from the perspective of Ligand Field Theory and reaction kinetics. Mechanisms of homogeneously catalyzed reactions are discussed in terms of cyclic processes comprised of simple unit reactions. 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.

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 the 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 Biochemistry. (3-0) A study of digestion, absorption, vitamins, intermediary metabolism, and respiration, (S, SSII)
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.

3 May be repeated once with different emphasis for additional credit.
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. (F) Prerequisite: Chemistry 2420.

Graduate Faculty

Banks, Alton Joseph, Associate Professor of Chemistry. B.A., West Georgia College; Ph.D., Vanderbilt University. (inorganic chemistry: coordination compounds, heavy metal toxicology, chemical education, computers in chemistry)

Carrano, Carl Joseph, 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. 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)

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, Associate 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)

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, community 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 Master of Science degree requires:
1. Completion of at least 18 semester hours of course work in the computer science major.
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 and the Dean of Graduate Studies and Research. The thesis requires a minimum enrollment of 6 hours in the thesis course, Computer Science 5399A/B. Thesis enrollment 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).

The Master of Arts degree requires:
1. Completion of at least 18 semester hours of course work in the computer science major.
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 (30-semester hour degree): Completion of a thesis which is accepted by a departmental supervisory committee of graduate faculty members and the Dean of Graduate Studies and Research. The thesis requires a minimum enrollment of 6 hours in the thesis course, Computer Science 5399A/B. Thesis enrollment 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.

The Master of Education degree with the computer science major is a 36-hour non-thesis degree and program entrance requires a teaching certificate in computer science courses plus:
1. Completion of at least 27 semester hours of course work in the computer science major.
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 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, 6 hours of advanced electives (3000-4000 level) with no grade less than “C” and no more than two “C’s”, and Mathematics 2358 and Mathematics 3398 with no grade below “C”. In general, these requirements may be reduced if evidence is presented which shows that the applicant has taken equivalent courses elsewhere prior to enrollment at SWT.

Admission policy:
In addition to meeting the grade-point average requirements, applicants to the computer science program are generally required to have a Graduate Record Examination score of 1000 (Verbal and Quantitative portions combined), including at least 300 on the Verbal portion and 600 on the Quantitative portion, as well as meet the basic requirements for admission to the Graduate School.

The basic admission requirements as a degree-seeking student in the Graduate School can be found in the “Admission Policies” section of this catalog. Additionally, before your application for admission can be considered, the official results of the GRE must be on file in the Office of Graduate Studies and Research. As an option, individuals may apply and obtain non-degree seeking “special student admission” from the Graduate School to enroll in computer science background courses before completing the GRE requirement. Individuals interested in applying for graduate degree-seeking admission or non-degree special student admission should write to: Office of Graduate Studies and Research, Southwest Texas State University, San Marcos, Texas 78666-4605. For more information about the graduate program in computer science, contact: Department of Computer Science, Graduate Adviser, Southwest Texas State University, San Marcos, Texas 78666.

Minor in computer science:
A graduate student’s minor in computer science requires 6-9 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:
Please refer to the university’s undergraduate catalog for teacher certification programs.

Courses Offered

Computer Science (CS)

5305' Advanced Course in Probability and Statistics. (3-0) Advanced topics in probability and statistics. See Mathematics 5305.
Prerequisite: Mathematics 4305 or Computer Science 4305.

5308' Advanced Systems Programming. (3-0) Design and analysis of systems software including compilers and operating systems. Recent developments in this field will be investigated.
Prerequisite: Computer Science 4328, or consent of the instructor.

1 May be repeated once with different emphasis for additional credit.
5314 Computers in Society. (3-0) Study of the history, cultural impact, and use of computers. Topical issues such as privacy, computer security, applications of computers, and the contributions of various people to the computing field are explored. Course can be used only for the Master of Education degree.

53181 Advanced Programming Techniques. (3-0) Advanced topics in computer programming. Languages, information structure, and file maintenance.
Prerequisite: Computer Science 3408, or consent of instructor.

53261 Advanced Studies in Human Factors of Computer Science. (3-0) Professional level presentation of techniques and research findings related to human-computer interaction.
Prerequisite: Computer Science 3358.

53281 Data Structures. (3-0) Advanced topics in linear lists including stacks, queues, circular and linked lists; binary trees; strings; and recursions.
Prerequisite: Computer Science 3358.

53381 Formal Languages. (3-0) Advanced topics in automata theory, grammars, Turing machines, parsing theory, algorithmic complexity, artificial intelligence, syntactic methods, and program verification.

53461 Advanced Artificial Intelligence. (3-0) Advanced studies in artificial intelligence concepts and techniques such as speech recognition, computer vision, robotics, and expert systems.
Prerequisite: Computer Science 4346, or consent of instructor.

53481 Computer Organization and Design. (3-0) Analysis and synthesis of sequential logic circuits. Comparison of computer architectures. Practical considerations and models of computer systems.
Prerequisites: Computer Science 3408 and consent of the instructor.

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 course concentrates on the organization of application systems, and it also analyzes operating system features necessary to support real-time applications.

53681 Topics in Computer Science. (3-0) Selected topics in computer science from advanced areas of computer systems, operations research, data structures, or computer design. Materials will be varied according to the needs and interests of the class.
Prerequisite: 6 hours senior-level computer science, or 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.

53981 Software Engineering. (3-0) A survey of modern techniques in software engineering to produce defect-free large programs in a timely manner. Data abstraction and verification will be emphasized.
Prerequisite: Computer Science 3358.

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.

1 May be repeated once with different emphasis for additional credit.
2 May be repeated with different emphasis for additional credit.
Graduate Faculty

Davis, Wilbon Pinkney, Professor of Computer Science. B.S., M.A., 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. (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 and Chair of the Department 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)

Ogden, Robert David, Assistant Professor of Computer Science. B.S., Southern Methodist University; M.A., Ph.D., Washington University. (fractal images, scientific computing)

Sawey, Ronald Marvin, Assistant Professor of Computer Science. B.A., M.A., Ph.D., University of Texas at Austin. (operations research, mathematical modeling)

Sellars, Harold Leroy, Associate Professor of Computer Science. B.S. in Ed., M.A., University of Alabama. (software engineering, real time systems)

Slomka, Jeffrey Alan, Assistant Professor of Computer Science. B.A., University of California; M.S., University of Kentucky; M.S., Southwest Texas State University. (computer science education, data structures)

Wade, James Frederick, Assistant Professor of Computer Science. B.S., M.S., Ph.D., University of Missouri. (operating systems, languages and translators)
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. 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. The Master of Science degree consists of a minimum of 24 hours plus a thesis or a minimum of 36 hours without a thesis. 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. 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. The minor for a Master of Science degree must be from the science area. 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. Students are advised to contact the mathematics graduate adviser for more detailed information.

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. The faculty has specialists in algebra, analysis, applied mathematics, differential equations, number theory, mathematics education, and topology. The library collection is extensive in both journals and reference works with current journals available in a reading room convenient to the departmental office.

Financial aid program:
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)

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 Reimann-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 who contributed to its progress. Cannot be used on a degree plan for M.A. or M.S. 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 a degree plan for M.A. or M.S. degree.

5305  Advanced Course in Probability and Statistics. (3-0) Advanced topics in probability and statistics. See Computer Science 5305.
   Prerequisite: Mathematics 4305.

5307  Modern Algebra. (3-0) Topics in modern algebra. Materials will be adapted to the needs of the class.
   Prerequisite: Mathematics 4307, or consent of the instructor.

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.

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.

5330  Topics in Topology. (3-0) Selected topics in topology. Materials will be varied according to the needs and interests of the class.
   Prerequisite: Mathematics 4330.

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.

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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.
5373 Theory of Functions of Real Variables. (3-0) Discusses those topics which 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, Associate 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., University College Dublin; Ph.D., Brown University. (differential geometry)

Dix, Julio Enrique, Assistant 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 and Supervisor of Student Teaching. B.S. in 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)

Hazlewood, Donald Gene, Professor of Mathematics. B.A., University of Texas at Austin; M.A., M.S., Ph.D., Syracuse University. (analytic 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, Assistant Professor of Mathematics. 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, Associate Professor of Mathematics. A.B., M.A., Ph.D., University of Southern California. (non-linear functional analysis)

2 May be repeated once with different emphasis for additional credit.
Ratliff, Ernest Francis, Jr., Associate Professor of Mathematics. 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, Associate Professor of Mathematics. B.A., Ph.D., University of California, San Diego. (topology)

Torrejon, Ricardo Marcelo, Associate 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; Ph.D., University of Utah. (analysis)

Welsh, Stewart Chalmers, Assistant Professor of Mathematics. B.S., University of Strathclyde; Ph.D., University of Glasgow. (bifurcation theory, differential equations)
Department of Physics

Degree Programs

Major and degrees offered:
Physics, M.A., M.S.

Major programs:
Three degree options are available to students majoring in physics. The standard program which 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. 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 program:
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)

5311 Nuclear Physics. (3-0) The study of radioactivity, nuclear structure, binding energies, and particle accelerators. (S)
Prerequisite: Physics 3312.

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.

5320 Solid State Physics. (3-0) An introductory course in the theory of solids.
Prerequisite: Mathematics 3323.

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.

5370A Electrodynamics. (3-0) Survey of classical electrodynamics and field theory.

5370B Classical Dynamics. (3-0) Survey of the more advanced formalisms used in describing motion of particles and systems including Lagrange's equations, Hamilton's equations, and Hamilton-Jacobi theory.

5370C Solid State Physics. (3-0) Survey of the major topics in solid state physics including the theory of electrical conduction, thermal properties of matter, crystallography, and optical properties of material.

5370D Nuclear Physics. (3-0) Survey of principles and concepts of physics of the nucleus.

5370E Microprocessor Applications. (3-0) Laboratory-oriented course in the principles and applications of microprocessors. Student is expected to design an original application at end of course.

5370F Digital Electronics. (3-0) Laboratory-oriented course in the principles and applications of digital electronics. Student is expected to design an original application at end of course.

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 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.

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.

Jackson, William Roy, Jr., Associated Professor of Physics. B.A., Columbia College; M.A., Ph.D., Rice University.

Michalk, Victor Edward, Professor of Physics. B.S., M.S., Texas A&M University; Ph.D., Texas A&M University.

Olson, Donald Wallace, Associate Professor of Physics. B.S., Michigan State University; Ph.D., University of California, Berkeley.

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1 May be repeated with prior approval of the department.
Interdisciplinary Studies

Interdepartmental Studies

Major and degree 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 met best 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. 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 School of Applied Arts and 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-hour minimum, three-module program: effective communications (9 hours), academic area (21 hours), and exit module (9 hours). Up to 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 through a department or through Occupational Education (Department of Technology).
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SOUTHWEST TEXAS STATE UNIVERSITY
GRADUATE SCHOOL
SAN MARCOS, TEXAS 78666-4605
Application for Admission

Date taken

A ll degree-seeking applicants must take an entrance exam in which the University may also require that I submit additional information in consideration. MBA applicants take the GMAT; the official score must be received in the Office of Graduate Studies before the application will be evaluated. All other applicants take the GRE (General). Several programs require the official GRE to be received before the application will be evaluated; please check the catalog or contact the department for specifics.

I hereby certify that all of the above statements made by me are true and complete and that I have not omitted any relevant information. I also certify that I will inform the SWT Graduate School of any changes in place of residence of myself or any other changes in the above record which occur. I understand that the University may also require that I submit additional information in consideration of this application. I acknowledge that deliberate omissions or falsifications subject me to the University's disciplinary sanctions.

Signature __________________________ Date ______________________

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, national origin, religion, sex, or handicap.
Graduate School Checklist Explanations

Application. You must file an official application for admission with the Graduate School within the deadlines announced (see inside front cover). Two official transcripts showing all work attempted should be ordered from each college you attended. Your personal copies are not acceptable. Allow enough time for your transcripts to arrive within the stated deadline dates. Timing is very important; applications received after the published deadlines are extremely difficult to process in time for registration although the Office of Graduate Studies and Research will make every effort to process late applications.

Admission is granted by the Dean of Graduate Studies and Research at the recommendation of your prospective department. The minimum admission requirement for most programs is a 2.75 GPA on your last 60 semester hours of your baccalaureate degree. You should have a minimum GRE General score of 900 if your GPA is less than 2.75 but not less than 2.50. Several degree programs have higher admission requirements. Some programs may consider your application for conditional admission, however, if you do not meet the minimums. Also, admission to the graduate school is not the same as admission to a specific program. The departmental graduate adviser may decline to accept an applicant if there is reason to believe an applicant might not be qualified for a particular program.

GRE/GMAT. Applicants for the School of Business are required to take the Graduate Management Admission Test, and applicants for all other degree programs are required to take the Graduate Record Examination. You must take the appropriate test (GRE or GMAT) even if you have a superior grade-point average. Prospective Business Administration majors must have the GMAT on file prior to being considered for admission. Other degree program applicants who have not yet taken the GRE or have a score which is no longer able to be reported, must take the GRE at the first national test date it is offered during the first semester enrolled in Graduate School at Southwest Texas State University. International students may have additional entrance test requirements.

Outline. Your degree outline is drafted by your department and forwarded to the Office of Graduate Studies and Research for approval once you have been admitted. Your official degree outline is prepared next, and you will receive written notification when to sign it and receive your own copy in the Office of Graduate Studies and Research. Any course taken prior to Graduate School admission or prior to signing the official degree outline is taken at your own risk.

Thesis. You must confer with your departmental graduate adviser and select a thesis committee and topic if your program calls for a thesis. A "thesis proposal" bearing the signatures of the members of your thesis committee and your graduate adviser must be submitted to the Dean of Graduate Studies and Research for approval in your first semester of thesis work. Failure to obtain approval before beginning research can cause major problems for you. You must also be registered for Thesis 5399A or 5399B in any semester in which supervision or guidance is received, and you must be registered in thesis in your semester of graduation.

Graduation. You must pay a required $12.00 diploma fee in your proposed semester of graduation. You must also complete the necessary diploma forms in the Office of Graduate Studies and Research at the beginning of the semester or during the first summer session if you will be graduating in August (see the official university calendar for deadlines). Failure to pay the required fee and complete the necessary forms will result in postponement of graduation. The entire process must be repeated the next semester of anticipated graduation at which time you will pay an additional $3.00 fee if you fail to graduate for any reason. Results of the required Comprehensive Examination and clearance of all "I" or "P" grades must be in the Office of Graduate Studies and Research no later than 10 days prior to graduation. You will be required to have a 3.0 GPA minimum in your major and in your minor. It is advisable for you to periodically check with the Office of Graduate Studies and Research during your final semester to ensure all is in order for your graduation. You will receive by mail a general checklist of clearances to be made and additional graduation procedures to be followed within the last few weeks of the semester. You will also need to pay a $4.00 in absentia fee for special handling of your diploma if you graduate "in absentia".

Information. Further information regarding the SWT Graduate School may be obtained from the Office of Graduate Studies and Research, (Area Code 512-245-2581).