### School Checklist

For Reference: Not to be taken from this library.

<table>
<thead>
<tr>
<th>Task</th>
<th>WHERE TO DO IT</th>
<th>WHEN TO DO IT/COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transcripts</td>
<td>Graduate Office</td>
<td>At least 30 days prior to the beginning of semester</td>
</tr>
<tr>
<td>Take the GRE (Graduate Record Exam)</td>
<td>All colleges attended</td>
<td>In time for transcripts to arrive at least 30 days prior to beginning of semester</td>
</tr>
<tr>
<td>File immunization record</td>
<td>Graduate Office</td>
<td>Prior to initial registration</td>
</tr>
<tr>
<td>Sign degree outline</td>
<td>Graduate Office</td>
<td>At earliest opportunity during the first semester of attendance</td>
</tr>
<tr>
<td>Confer with Graduate Advisers</td>
<td>Their Offices</td>
<td>Each working semester</td>
</tr>
<tr>
<td>Arrange for thesis committee</td>
<td>Departmental Office</td>
<td>The first semester of thesis research</td>
</tr>
<tr>
<td>Submit thesis proposal</td>
<td>Graduate Office</td>
<td>Before beginning formal thesis research</td>
</tr>
<tr>
<td>Pay diploma fee</td>
<td>In registration line (fees) or cashier's window</td>
<td>Beginning of semester of planned graduation</td>
</tr>
<tr>
<td>Apply for graduation</td>
<td>Graduate Office</td>
<td>See official University Calendar for required deadlines</td>
</tr>
<tr>
<td>Remove any incomplete grades</td>
<td>Departmental Office</td>
<td>No later than 10 days prior to graduation</td>
</tr>
<tr>
<td>Take comprehensive exam</td>
<td>Departmental graduate adviser</td>
<td>Generally during final semester with report due in Graduate Office no later than 10 days prior to graduation</td>
</tr>
<tr>
<td>Complete requirements of degree outline</td>
<td></td>
<td>No course more than six years old may be counted toward a master's degree</td>
</tr>
<tr>
<td>Attend graduation, or request absence permit</td>
<td></td>
<td>Comply with instructions mailed to all candidates</td>
</tr>
</tbody>
</table>

**REMEMBER:** NO PERSON IS OFFICIALLY IN A GRADUATE PROGRAM AT SOUTHWEST TEXAS STATE UNIVERSITY UNTIL THAT PERSON HAS A SIGNED DEGREE OUTLINE. ANY COURSE TAKEN PRIOR TO ADMISSION TO GRADUATE SCHOOL MAY NOT BE APPLIED TOWARD A DEGREE WITHOUT PERMISSION OF THE GRADUATE DEAN.

Note: The SWT Graduate Office is located in Room 132, J. C. Kellam Bldg.
Southwest Texas State University
San Marcos, Texas

member of

The American Association of Colleges for Teacher Education.
The American Chemical Society.
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 Council for Accreditation of Teacher Education.
The Southern Association of Colleges and Schools.

Published four times a year in January, February, March and April.
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Official University Calendar, 1979-80

Fall Semester 1979

August 28, Tuesday
8:00 a.m. - 12:00 noon
Orientation All New Students
General Faculty Meeting
1:00 p.m. - 3:00 p.m.
All New Faculty
3:00 p.m. - 5:00 p.m.
Departmental Meetings As Needed
June 27, Friday
Classes Meet. Examinations Begin

Spring Semester 1980

January 15, Tuesday
January 16-18, Wednesday, Thursday, and Friday
January 19, Monday
January 20, Tuesday
January 21, Monday
January 22, Tuesday
January 23, Wednesday
January 24-25, Thursday and Friday
January 26, Saturday
January 27, Sunday
January 28, Monday
January 29, Tuesday
January 30, Wednesday
February 1, Thursday
February 2, Friday
February 3, Saturday
February 4, Sunday
February 5, Monday
February 6, Tuesday
February 7, Wednesday
February 8, Thursday
February 9, Friday
February 10, Saturday
February 11, Sunday
February 12, Monday
February 13, Tuesday
February 14, Wednesday
February 15, Thursday
February 16, Friday
February 17, Saturday
February 18, Sunday
February 19, Monday
February 20, Tuesday
February 21, Wednesday
February 22, Thursday
February 23, Friday
February 24, Saturday
February 25, Sunday
February 26, Monday
February 27, Tuesday
February 28, Wednesday
March 1, Thursday
March 2, Friday
March 3, Saturday
March 4, Sunday
March 5, Monday
March 6, Tuesday
March 7, Wednesday
March 8, Thursday
March 9, Friday
March 10, Saturday
March 11, Sunday
March 12, Monday
March 13, Tuesday
March 14, Wednesday
March 15, Thursday
March 16, Friday
March 17, Saturday
March 18, Sunday
March 19, Monday
March 20, Tuesday
March 21, Wednesday
March 22, Thursday
March 23, Friday
March 24, Saturday
March 25, Sunday
March 26, Monday
March 27, Tuesday
March 28, Wednesday
March 29, Thursday
March 30, Friday
April 1, Saturday
April 2, Sunday
April 3, Monday
April 4, Tuesday
April 5, Wednesday
April 6, Thursday
April 7, Friday
April 8, Saturday
April 9, Sunday
April 10, Monday
April 11, Tuesday
April 12, Wednesday
April 13, Thursday
April 14, Friday
April 15, Saturday
April 16, Sunday
April 17, Monday
April 18, Tuesday
April 19, Wednesday
April 20, Thursday
April 21, Friday
April 22, Saturday
April 23, Sunday
April 24, Monday
April 25, Tuesday
April 26, Wednesday
April 27, Thursday
April 28, Friday
April 29, Saturday
April 30, Sunday
May 1, Monday
May 2, Tuesday
May 3, Wednesday
May 4, Thursday
May 5, Friday
May 6-14, Saturday
May 17, Saturday

Summer, 1980

First Session
May 30, Friday
Registration
May 30-June 30, Tuesday
Dates to File Applications for Degrees to be Conferred on August 16, 1980
June 2, Monday
Classes Begin
June 3, Tuesday
Official Fourth Class Day
June 4, Wednesday
Half-term (three weeks) Classes Final Examinations
June 7, Thursday
Last Day to Complete the Procedure to Drop a Course or Withdraw from the University
June 10, Friday
Graduation
Second Session

July 10, Thursday
July 11, Friday
July 12, Saturday
July 14, Monday
July 15, Tuesday
July 23, Wednesday
July 28, Monday
August 5, Tuesday
August 9, Saturday
August 12, Tuesday
August 13, Wednesday
August 16, Saturday
August 26, Tuesday

Registration
Classes Begin
Classes Meet
Only Day to Register Late and to Add/Drop Courses
Official Fourth Class Day
Last Day to Complete Drop Procedure With An Automatic Grade of "W"
Half-term (three weeks) Classes Final Examinations
Last Day to Complete the Procedure to Drop a Course or Withdraw From the University
Classes Meet
Classes Meet, Examinations Begin
Examinations End
Graduation
First General Faculty Meeting for Fall, 1980

Graduate student receives assistance completing forms from Cheryl Morriss, Coordinator of Graduate Admissions.
General Information

The 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 students here with a broad range of educational options, including graduate degree programs in a wide variety of academic and professional areas.

All of these factors, and more, have contributed to the steady growth of Southwest Texas State University. Opening its doors in 1903 with only 303 students, Southwest Texas State has grown from a two-year normal school to a multi-purpose university with a 1978 enrollment of over 15,000. In spite of its growth, the University continues to maintain its emphasis on caring for the individual. People are the reason for which Southwest Texas State University exists.

Authorization

The establishment of a Graduate School at Southwest Texas State University was authorized by the Board of Regents at its meeting on July 15, 1935. Graduate courses were first offered during the summer session of 1936, and the first Master of Arts degree was conferred at the spring commencement of 1937. 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 for implementation in 1969. In 1972, the University was authorized to grant the degrees of Master of Science and Master of Arts in Teaching, and in 1973 the degree of Master of Public Administration and Master of Science in Health Professions. The degrees of Master of Arts and Master of Science in Interdisciplinary Studies were authorized in 1978. In 1979, the Master of Science and Master of Arts degrees with a major in Computer Science were authorized by the Coordinating Board.

Organization and Administration

The University is organized into the School of Creative Arts, the School of Liberal Arts, the School of Science, the School of Business, the School of Education, the School of Applied Arts, the School of Health Professions, and the Graduate School.
The Graduate Council determines the policies of the Graduate School, and these policies are administered by the Dean of the Graduate School. Besides the Dean, who serves as chairman, the Graduate Council is composed of a representative of each department which offers a graduate major. The President of the University, the Dean of the University, and the Registrar are ex-officio members of the Council.

Graduate Council

John S. Hill, Dean of the Graduate School, Chairman
Henrietta H. Avent, Department of Health and Physical Education (1979-1983)
Louis E. Brister, Department of Modern Languages (1975-1983)
James R. Crawford, Department of Physics (1976-1980)
Herbert H. Hannan, Department of Biology (1979-1983)
Donald G. Hazlewood, Department of Mathematics (1979-1983)
Roy V. Miller, Jr., Department of Agriculture (1977-1980)
Robert T. Mooney, Department of Allied Health Sciences (1979-1983)
James W. Pohl, Department of History (1975-1983)
Francis M. Rich, Jr., Department of Political Science (1976-1980)
Philip J. Salem, Department of Speech Communication and Theatre Arts (1977-1981)
Alvin P. Short, Department of Sociology (1977-1981)
David R. Stevens, Department of English (1977-1981)
Robert M. Stevenson, Departments of Business (1976-1980)
Doyle G. Ward, Department of Special Education (1976-1980)
Bobby L. Williamson, Department of Education (1975-1983)
Billy L. Windham, Department of Industrial Arts (1977-1981)
Darwin E. Winfield, Department of Health Administration (1977-1981)
Byron A. Wolverton, Department of Music (1978-1982)
Billy J. Yager, Department of Chemistry (1979-1983)

Non-Voting Members

William D. Kolbe, Department of Art (1979-1983)
Robert D. Larsen, Department of Geography and Planning (1979-1983)
David T. Stimmel, Department of Psychology (1979-1983)

Ex-officio

Lee H. Smith, President of the University
William E. Norris, Jr., Vice President for Academic Affairs and Dean of the University
Robert E. Gaines, Director of Admissions and Registrar.

Admission Policies

Applications for admission to the Graduate School may be obtained from the Graduate Office and must normally be submitted at least thirty days prior to the beginning of the semester of entrance. The applicant should also make provisions to have two official transcripts from each school attended sent to the Graduate Office.
The transcripts should reflect all college work attempted and degree(s) conferred. **In addition, all applicants are required to take the aptitude portion of the Graduate Record Examination**. The results of this examination must be received in the Graduate Office no later than the end of the first long semester of the student's enrollment in the Graduate School. Seniors who have a superior academic record and lack twelve (12) or fewer semester hours toward graduation may, with the approval of the proper departmental adviser and the Graduate Dean, register during their final semester of undergraduate study for courses to be applied toward a Master's degree. (Note: The SWT Graduate School does not utilize the GMAT examination score.)

A student is admitted to Graduate School (1) if he/she has a GPA of less than 2.75 but at least 2.50 plus a GRE score of 900 or above **OR** (2) if he/she has a GPA of 2.75 (on a scale of 4) based on the last 60 semester hours of undergraduate work in a degree program.

In addition, there is a Special Student classification for the person who wishes to take 5000/6000 level courses but who does not want degree credit. (Example: someone taking a 5000/6000 level course solely to meet new certification requirements.) By signing a Special Student Waiver Form, this person need not file transcripts or meet other admission criteria but still must file an application form (for information purposes). If, at a subsequent date, this person qualifies for admission to the Graduate School and to a degree program, he/she may petition to have up to 12 hours of Special Student classwork counted for degree credit.

All admissions are subject to the approval of the respective major and minor departments.

Incomplete application files are kept for one year only. After one year, they are disposed of.

The GRE score is a composite of the Verbal and Quantitative portions of the exam. **Transcripts must be sent by the Registrar's Office of the university attended directly to the Graduate Office in order to be considered official**. Transcripts which are hand-carried or mailed in by a student are not considered official.

A Post-Graduate student is any student who has completed at least the baccalaureate degree and is not seeking a Master's degree. Any person wishing to pursue a Master's degree must apply for admission through the Graduate School regardless of what degree he or she holds.

### International Students

An international student is defined herein as a student who is not a citizen of the United States and who must have an F-1 (student visa) or some form of government approval to attend an institution of higher education in this country.

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 regulations for international students differ from those for United States' citizens.

### General Admission Requirements

Each international student applicant must satisfy the following general requirements:

The results of the Test of English as a Foreign Language (TOEFL) must be submitted before the student's application will be considered. A minimum score of 550 is required for admission. (Native speakers of English are exempt.)

A non-refundable admission/evaluation fee of $25.00 (U.S. currency) must be submitted, along with the application for admission, by all applicants who hold or will be holding a non-immigrant visa while in the U.S. and by all applicants who are considered for admission on the basis of foreign credentials. No application will be considered until the necessary fee is paid.
Upon meeting the admission criteria, an international student is required to submit a $3,200 deposit (U.S. currency) to cover the first nine months' expenses. Each international student applicant, in addition to satisfying the general requirements, must also meet specific admission standards for graduate students.

**Specific Admission Requirements**

An international student applying for admission to Graduate School at SWT must:

a. have on file an application for admission to the Graduate School;
b. have earned a grade-point-average (GPA) of at least 2.75 (on a scale of 4) based on the last 60 semester credit hours on the undergraduate degree;
c. have two official transcripts from each school enrolled in sent to the Graduate Office showing all college work attempted and all degree(s) conferred;
d. have a Graduate Record Examination (GRE) score of at least 900 at the time of application for admission;
e. receive the approval of the respective proposed major and minor departments involved.

**F-1 Visa**

SWT will not issue a Form I-20 until all of the regulations for admission have been met.

An international student who is on an Immigrant Visa is not required to have a Form I-20.

**Course Load**

An international student must register as a full-time student each Fall and/or Spring semester. Graduate School students must carry a minimum of 9 semester credit hours, as required by federal law.

**Final Acceptance**

The Dean of the Graduate School may refuse admission to any international student applicant, regardless of his/her meeting all admission requirements, if such action is deemed to be in the best interests of the University.

**Requirements for the Master’s Degree**

**Residence Requirement.** In general, 24 semester hours of graduate work should be completed in residence at Southwest Texas State University.

**Credits by Transfer, Extension Study, or Correspondence.** 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 the student’s degree program at the University, and that: (1) if the credits were earned prior to the student’s admission to Graduate School here, the credits were earned while the student was enrolled under a degree program at that institution OR (2) if the credits are to be earned after the student’s admission to Graduate School here, prior written approval of the enrollment has been given by the Graduate Dean here and a Letter of Good Standing has been sent to the other institution by the Graduate Dean prior to the student’s enrollment in the course(s) to be transferred.
A request for a Letter of Good Standing begins with a student request to the graduate adviser. If the adviser approves of the proposed substitution, a request for a Letter of Good Standing is submitted to the Graduate Dean by the graduate adviser. If the Graduate Dean approves the substitution, a Letter of Good Standing is sent to the university where the student will be enrolling. A student who plans to take courses on another campus as part of a graduate degree program at Southwest Texas State University should initiate a request for a Letter of Good Standing well in advance of the time of the planned enrollment, since transfer credit cannot be permitted unless a Letter of Good Standing has been issued prior to the student’s enrollment in the course(s) to be transferred.

Up to 3 hours, of the total 6 hours that are transferrable, can be earned through extension courses at another accredited institution.

Not more than 12 semester hours of graduate credit may be earned in extension courses offered by Southwest Texas State University.

**Time Limit.** A program leading to the master’s degree must be completed within six years from the date of the student’s initial enrollment for graduate courses. No credit will be applied toward the master’s degree for courses completed more than six years before the date on which the degree is to be conferred. An extension of time will be given to students who are inducted into military service.

**Hour Requirements.** The minimum number of semester hours required for the master’s degree is 30; the maximum is 45.

All courses required for master’s degrees offered at Southwest Texas State University should be at the 5000 or above level. In exceptional cases, with the prior approval of the student’s graduate adviser and the Graduate Dean, up to 9 hours of upper division undergraduate level work may be applied toward a student’s degree requirements. At least one half of the hours earned for a major, minor, and a cognate area must be numbered 5000 or above for each. Students enrolled in undergraduate courses for graduate credit will be required to meet higher standards of work, both quantitatively and qualitatively, than are required for undergraduates.

**Education Majors.** Majors in education who apply for the Master of Education degree must include a problems course: Education 5390 or Education 5391. As a part of the requirements of each course the student will write a formal report prepared in conformity with instructions given in the manual for writing the thesis.

**Prerequisites for Graduate Courses.** Generally, a background of at least 24 semester hours, including 12 advanced, is required for the graduate major; and 18 hours, including 6 advanced, are required for the graduate minor. Exceptions in background requirements may vary in split minors and in requirements for minors in elementary education. In some instances, 18 advanced hours in education may be sufficient background for a major in education. 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 Education on the basis of teaching experience. Background for the degree of Master of Business Administration normally consists of the baccalaureate degree in business administration, or 30 hours in the field to include these courses or their equivalents: accounting, 6 hours; economics, 6 hours; business law, 3 hours; finance, 6 hours; management, 3 hours; marketing, 3 hours; statistics, 3 hours.

**Thesis Requirements.** If the student elects to write a thesis, a committee to direct the thesis will be assigned by the Department Chairman in conference with the student.

a. The thesis must demonstrate the student’s capacity for research and independent thought. The completed thesis must be submitted to the chairman of the thesis committee not later than 45 days before the date of the commencement at which the degree is to be conferred and must be deposited with the Dean of the Graduate School for final approval not later than 30 days before the date of the commencement at which the degree is to be conferred.
Two copies suitable for binding must be delivered to the Dean of the Graduate School before the week of graduation.

b. Two copies of the thesis must be deposited in the library, and a fee to cover the cost of binding must be paid to the library before the degree is conferred. Failure to comply with this regulation will delay graduation until the following semester.

c. The thesis must be prepared in conformity with Kate L. Turabian's *A Manual For Writers* which is available in the University Bookstore.

d. Credit for the thesis will be recorded as course number 5699, or 5399, in the field in which the subject matter of the thesis falls, e.g., Education 5699, English 5699. If the student does not complete the thesis in a term or semester in which he/she is enrolled for it, he/she will receive a grade of "P" with the privilege of redeeming credit for the course by completing the thesis at any time prior to his/her graduation.

A student may enroll for either 3 or 6 hours of credit in the thesis course in any semester or summer term, for a total of 6 hours. **A student will be required to enroll and pay the fee for at least 3 hours of the thesis course during any semester or term during which he/she desires thesis supervision.** 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 degrees must be registered for the thesis course during the semester or summer term in which thesis supervision is received and the degree is conferred. The only exception to this rule will be in cases where copies are delivered for binding prior to the day of graduation, but too late for the candidate's participation in graduation ceremonies. In this case, **and this case only,** the candidate need not enroll in the succeeding semester.

**Comprehensive Examination.** All candidates for the master's degree must pass a comprehensive examination, either written or 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 the student has acquired at least 18 hours of graduate credit and may not be taken before the final term or semester if the student has a grade deficiency. The grade on the comprehensive examination must be filed in the Graduate Office at least 10 days before the commencement at which the degree is to be conferred. Arrangements for the examination may be made with the major professor or the department head.

**Work/Life-Experience.** In the Interdisciplinary Studies Program, a student may petition to receive up to 9 semester hours credit for work/life-experience. An evaluation board evaluates the proper documentation on an individual basis.

**Graduation Requirements.** To be eligible for graduation, a student must have a GPA of 3.0 or better in the major and in the minor.

Incomplete grades must be cleared through the Graduate Office at least 10 days before the commencement at which the degree is to be conferred. It is the student's responsibility to ensure that all graduation requirements have been met.

**Application for the Degree.** Upon registering for the last semester of work, a student indicates plans to graduate at the end of that semester and pays the $8.00 diploma fee. *An application for the degree must also be filed in the Graduate Office within the period announced in the University Calendar.* These steps must be taken in order to complete application for a degree. Failure to apply for graduation on time may require the student to accept a statement of completion instead of a diploma, and graduate the following semester.

If a student fails to graduate at the time for which initial application is made, the student must re-apply for graduation at the next appropriate time and pay a $1.00 charge for changing the diploma insert. Re-application for the degree must also be filed in the Graduate Office *within the period announced in the University Calendar.*
Recommendations for the Degree. Upon the completion of all requirements for the master’s degree, and with the approval of the department concerned, candidates are certified for graduation by the Dean of the Graduate School. Degrees are conferred publicly at the close of the fall semester, the spring semester, and the second summer session.

Financial Assistance. FEDERAL REGULATIONS NOW REQUIRE THAT A STUDENT BE MAKING SATISFACTORY PROGRESS BEFORE HE/SHE MAY RECEIVE FINANCIAL ASSISTANCE. IN ORDER TO COMPLY WITH THESE REGULATIONS, THE FOLLOWING DEFINITION WILL BE USED BY SOUTHWEST TEXAS STATE UNIVERSITY, EFFECTIVE SUMMER 1978.

For purposes of awarding financial assistance only, satisfactory academic progress will be determined after a graduate student has been enrolled for one semester at Southwest Texas State University and every semester thereafter. A graduate student is considered to be making satisfactory academic progress if the following conditions are met:
1. A minimum graduate GPA of 3.00 is maintained overall and in the major field, including transfer of graduate credit; and
2. A minimum of 6 semester graduate credit hours per semester and an average of 9 semester graduate credit hours over all semesters enrolled at Southwest Texas State University is satisfactorily completed.

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 equipment 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; 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 opportunity for continued 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 a 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.
Course Numbers

Courses numbered 5000 and above are open to graduate students exclusively. Courses in the 3000 and 4000 series may, in rare instances, be accepted for graduate credit. The inclusion of undergraduate courses in a graduate program must have the prior approval of the Dean of the Graduate School, and graduate students enrolled in such courses will be held to a higher standard of performance than is required of undergraduates.

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 5399 would receive 3 semester hours credit.

Amount of Work Permitted

At the graduate level the normal course load during a long semester is 12 hours; the maximum is 15. The maximum load during each summer session is 6 hours. An employed person who works one-quarter time may take up to 3 substantive courses; those who work half-time may take up to 2 substantive courses; all others may take only 1 substantive course each semester. The permissible load of assistant instructors and other part-time employees of the University will be determined by the department or operating unit.

Teachers who are employed full time in the public schools must have the approval of their employer to enroll for more than 3 semester hours during any semester; they may not under any circumstances earn more than 6 hours of credit during each summer session nor more than 9 hours during any long semester.

Veterans Administration Certification

Certification and measurement of graduate courses for graduate students utilizing VA benefits are evaluated as follows:

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<thead>
<tr>
<th></th>
<th>Fall and Spring Semesters</th>
<th>Six Week Summer Sessions</th>
<th>Off Campus 8 Week Terms</th>
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*Fewer hours may be certified as Full time for thesis courses or other in absentia research when the credits earned do not reflect the pursuit required.
Overloads and Requirements for Class Credit

**Overloads.** Only the Dean of the Graduate School may authorize an overload. To request an overload, the student will make a request in writing to the Dean of the Graduate School at least three days before registration. The request must be accompanied by a written endorsement from the Chairman of the student’s academic department.

**Requirements for Class Credits.** A student must be in attendance in class, fulfill the course requirements, and be evaluated by the course instructor in order to receive credit.

The student must be duly enrolled in the course during the semester or summer session in which he/she receives credit for that class.

No student may enroll in a class so as to receive credit for class work performed in a preceding semester or summer session, nor may a student enroll in a class so as to receive credit for work performed at another college or university.

These requirements for class credits do not affect enrollment for thesis or independent study or credit awarded on the recommendation of the Work/Life-Experience Evaluation Board.

Required Immunizations

Students must have proof of having had immunizations for diphtheria, tetanus, and polio within the past ten years. Students over 19 are exempt from the polio requirement.
Fees and Expenses
Registration Fees and Deposits

**General Property Deposit.** Each student is required to make a General Property Deposit of $10.00 which must remain with the University through his career here 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.

**Refund of General Property Deposit.** The General Property Deposit, less charges, will be returned to the student at the end of his/her career as a student, provided, however, that any General Property Deposit which remains without call for refund for a period of four years from the date of last attendance at this University shall be forfeited and the deposit become a part of and operative to the permanent use and purpose of the University Student Deposit Fund.

**Student Concurrently Enrolled At Another Public Institution of Higher Education.** To be eligible for the provisions of Senate Bill 250, “Tuition Limit in Cases of Concurrent Enrollment,” a student must present to the representative of the Director of Accounting at the Tuition Adjustment Table on the day he/she registers, evidence of enrollment, number of semester hours enrolled, and receipt showing total tuition and other fees paid at another public institution of higher education.

**Fee Reduction.** A master’s degree candidate for graduation may be eligible for 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.
# Required Registration Fees

## Residents of Texas

### Fall and Spring Semesters of the Long Term, 1979-1980 (per semester)

<table>
<thead>
<tr>
<th>Hours</th>
<th>Tuition</th>
<th>Student Service Fee</th>
<th>Building Use Fee</th>
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*Add $4.00 for tuition for each hour over 20; Student Service Fee, Building Use Fee, Medical Service Fee, and Bus Fee remain the same.

### Summer Term, 1980 (per session)

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*Add $4.00 for tuition for each hour over 7.

**Add $6.00 for Building Use Fee for each hour over 7 (maximum $45.00). Student Service Fee, Medical Service Fee, and Bus Fee remain the same.
Non-Resident Students, United States Citizens, and International Students

Fall and Spring Semesters of the Long Term, 1979-1980 (per semester)

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<th>Hours</th>
<th>Tuition</th>
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*Add $40.00 for tuition for each hour over 20. Student Service Fee, Building Use Fee, Medical Service Fee, and Bus Fee remain the same.

Summer Term, 1980 (per session)

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<th>Hours</th>
<th>Tuition</th>
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<th>Building Use Fee</th>
<th>Medical Service Fee</th>
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*Add $40.00 for tuition for each hour over 7.

**Add $6.00 for Building Use Fee for each hour over 7 (maximum $45.00). Student Service Fee, Medical Service Fee, and Bus Fee remain the same.
Additional Fee Information

Rules Regarding Fees. Rules and regulations governing the resident classification of a student shall be available in the Office of Admissions and any student who is uncertain of his status should be encouraged to obtain such rules and regulations and to seek a determination of his/her status through that office.

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.

Payment of Fees. All fees and deposits are payable at the time of registration, and a student is not registered until his/her fees are paid. Payment may be made in 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, the student must pay in cash immediately. Students whose checks have been dishonored 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.

The payment of all fees entitles the student to admission to classes, admission to auditorium and athletic attractions, subscription to the University Star, use of the Student Center facilities, use of the health services, Sewell Park facilities and group use of the Wimberley camp. These fees also help provide funds for the Associated Students, band, choir, dramatics, debate and other student activities.

Students' Financial Obligations. Students are expected to meet financial obligations to the University within the designated time allowed. Registration fees are payable at the time of registration, and students are not entitled to enter class or laboratory until their fees and deposits have been paid. Other charges are due at registration or within ten days after a bill is rendered by the University, or according to the special payment instructions that may be printed on the bill. Failure to pay the amount owed in the allotted 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 certified transcript, 4.) withholding the conferring of a degree.

Fees for Off-Campus Courses. Off-campus students pay tuition and fees at the same rate as on-campus students.

Auditing Fees. Where auditing of a course is permitted, all fees will be the same as if the course were taken for credit.

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:

$10.00 per long term
5.00 per summer session

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

Students................................. $10.00 per long term
5.00 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
Extension and Correspondence Instruction. Pursuant to the action taken by the Board of Regents, the fee for extension instruction is $75.00 and $60.00 for correspondence instruction for a three-hour course with a pro rata portion of the fee charged for each additional semester hour to be payable in advance. The audit fee for extension courses is the same as if the course were taken for credit.

Fee for Schedule Change. A fee of $2.00 will be charged for each change in the schedule of a student after that schedule has been filed, except when such change is dictated by circumstances deemed by the Registrar to be beyond the student's control.

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 offering 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; and, 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.

Vehicle Registration Fees

Motor Vehicles, 12 months (Fall, Spring, and Summer) ................................................. $15.00
Motor Vehicles, Spring and Summer Only ................................................................. 10.00
Motor Vehicles, Fall Only ....................................................................................... 10.00
Motor Vehicles, Summer Only .............................................................................. 5.00
Motor Vehicles, Commuter and Riverside Apartments, 12 months (Fall, Spring, and Summer) ....................................................................................... 5.00
Motor Vehicles, Commuter and Riverside Apartments (Spring and Summer Only) ................................................................................................. 3.00
Motor Vehicles, Commuter and Riverside Apartments (Fall Only) ............................................................................................... 3.00
Motorcycles, 12 months (Fall, Spring, and Summer) ..................................................... 3.00
Motorcycles (Fall Only) .............................................................................................. 2.00
Motorcycles (Spring and Summer) ............................................................................ 2.00
Motor Vehicles, Retired Faculty and Staff .................................................................. 5.00

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

Fees for Special Courses

(in addition to registration fees)

Certificate Fee (payable when applying for certificate)
  Provisional (permanent) ............................................................................................. $2.00
  Professional ............................................................................................................... 3.00
Diploma Fee .................................................................................................................. 8.00
Diploma Insert Fee (re-application for graduation) ....................................................... 1.00
Piano, organ, voice, band or orchestral instruments:
  Two (one-half hour) lessons per week ...................................................................... $35.00 per semester
  One (one-half hour) lesson per week ....................................................................... 18.00 per semester
  Class Piano 1108, 1110, 1112, 1114 ...................................................................... 10.00 per semester
  Music Practice Fee ..................................................................................................... 2.00 per semester
Scattered Practice Teaching, Education 4382, 4383, 4384 (payable in full upon initial registration one time only) ......................................................... Off-campus 75.00
Internship Practicum, Education 5389  
(payable in full upon initial registration one time only)  75.00

Internship Practicum, Special Education 5389  
(payable in full upon initial registration one time only)  75.00

Laboratory Fees:

- Agriculture 4300, 4303  $2.00 per semester
- Agriculture 2379, 3379, 4302, 4361  3.00 per semester
- Agriculture 3304  4.00 per semester
- Agriculture 3375, 4374  5.00 per semester
- Agriculture 2345  8.00 per semester
- Biology 5690, 5699  4.00 per semester
- Biology 1410, 1420, 2340, 2350, 2360, 2430, 2440, 3320, 3322, 3360, 3365, 3410, 3440, 3442, 3450, 3470, 3480, 3490, 3495, 4299, 4302, 4303, 4305, 4310, 4313, 4315, 4316, 4320, 4321, 4322, 4323, 4330, 4340, 4345, 4365, 4370, 4380, 4411, 4412, 4440, 4445, 4454, 5305, 5310, 5312, 5313, 5315, 5318, 5319, 5320, 5321, 5322, 5323, 5330, 5335, 5336, 5340, 5345, 5355, 5360, 5361, 5362, 5365, 5370, 5380, 5390, 5399, 5411, 5412, 5454  2.00 per semester
- Chemistry 5699  4.00 per semester
- Chemistry 1410, 1420, 1430, 2130, 2410, 2420, 2450, 3245, 3410, 4262, 4275, 4299, 4336, 4337, 4412, 4430, 4435, 4440, 4465, 5262, 5275, 5336, 5337, 5399, 5412, (not including breakage)  2.00 per semester
- Education 4303, 5305, 5357  2.00 per semester
- General Science 3310, 3320, 4302, 4303  2.00 per semester
- Geography 1414, 1415, 3311, 3316, 4311, 4330  5.00 per semester
- Home Economics 1330, 2332, 3336, 3338  5.00 per semester
- Industrial Arts 1320, 1330, 2310, 2320, 2330, 2344, 2350, 2365, 2370, 3310, 3313, 3320, 3350, 3365, 3370, 3380, 3384, 3386, 4310, 4313, 4330, 4350, 4360, 4362, 4371, 4372, 4373, 4385, 4387, 4388, 4393, 5396  6.00 per semester
- Industrial Arts 1413, 1450, 1632  8.00 per semester
- Physics 4336, 4337, 5336, 5337  2.00 per semester

Refund of Fees

Any student who has paid his/her registration fees and officially withdraws by submitting a withdrawal card and registration receipt to the Cashier in the Office of the Director of Accounting is entitled to a refund of tuition and fees as follows:

**Regular Long Semester**

- 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

*A matriculation fee of $15.00 will be assessed any withdrawals prior to the first day of classes.*
Summer Session

**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

**A matriculation fee of $7.50 will be assessed any withdrawals prior to the first day of classes.

Should a student reduce his/her semester hours by officially dropping a course or courses, the following refund rates will apply, provided the student remains enrolled at Southwest Texas State University:

Regular Long Semester

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

Summer Session

- During the first four class days ......................... 100%
- After the fourth class day ................................. None

No refunds will be made when the amount is less than $2.00. An immediate refund will not be made at the time a student withdraws or reduces his/her hours during a semester, but upon request a check covering all refunds due will be mailed within approximately 30 days to the address left at the Cashier’s Window, Office of the Director of Accounting.

The refund schedule for an unused parking registration decal is as follows:

**Fall or Spring Semesters**

- First week ......................................................... 80%
- Second week ...................................................... 60%
- Third week ......................................................... 40%
- No refund after third week

**Summer Session**

- First through third class day ......................... 80%
- Fourth through sixth class day ......................... 50%
- No refund after sixth class day

Certification Instructions

**For Post Graduates**

Persons holding a degree from a Texas college and seeking certification as elementary teachers should comply with the following procedure:

1. **Procedure:**
   A. Make proper application for admission through the Graduate School office.
   B. Apply to the Certification Officer (Office of the Registrar) for statement of:
      1. Eligibility for admission to teacher education (Grade average of 2.25 in teaching major; 2.0 in second teaching field; 2.0 over-all; 2.0 in Academic Foundations.)
      2. Deficiencies to be made up.
   C. Complete courses in which deficiencies exist.
   D. Apply for certification in the Office of the Registrar.
II. Requirements for the Certificate:
A. Academic Foundations: These ordinarily have been met in the average of 2.25 in teaching major; 2.0 in second teaching field; 2.0 over-all; 2.0 in Academic Foundations.
B. Specialization — 36-39 semester hours earned through either Plan I or Plan II:
1. Plan I: 18 to 21 semester hours in one subject taught in the elementary school (including 9 hours of advanced work); and 18 semester hours in a combination of related subjects taught in the elementary school.
2. Plan II: 24 to 27 semester hours in one subject, and 12 semester hours in a combination of subjects.
C. Professional Courses:
1. 12 semester hours in elementary education:
   Education 3311 — The Elementary Learner: His Growth and Development.
   Education 3320 — The Elementary School: Principles and Curriculum.
   Education 4321 — The Improvement of Reading Instruction.
   Education 4324 — Elementary Teaching: The Teacher's Role.
2. 6 semester hours of student teaching (or with two years of teaching on the elementary level in an accredited system, substitute 6 additional hours of approved elementary education courses).
3. 12 semester hours of "content courses": Mathematics 4302, Education 4323, 6 hours from Art 3323, Health Education 3375, Education 3321 or 5329, or Education 3323 or 5328.
D. Other Requirements:
1. A minimum of 12 hours earned in residence.
2. The statutory requirements of American History (6 hours) and State and Federal constitutions (6 hours).

Persons holding a degree and no certificate from a Texas institution and seeking certification as secondary teachers should comply with I and IIA shown above and add:
III. Specialization:
A. Plan I: First teaching field of 30-36 semester hours of pre-determined courses.
   Second teaching field of 24-28 semester hours of pre-determined courses:
   | Art               | English | Music  |
   | Biology           | French  | Physical Education |
   | Business, General | Geography | Physical Science |
   | Business, Secretarial | German  | Physics  |
   | Chemistry         | Health Education | Political Science |
   | Computer Science  | History  | Psychology |
   | Dance             | Journalism | Sociology |
   | Drama             | Life-Earth Science | Spanish |
   | Earth Science     | Mathematics | Speech |
   | Economics         |          |            |
B. Plan II:  48 to 60 semester hours in a composite field, no second teaching field required.
   Music (48-54 hours)
   Science (60 hours)
   Social Science (60 hours)
C. Plan III: 48 to 60 semester hours in a composite field, no second teaching field required.
   Agriculture (Vocational Education)
   Home Economics (Vocational Education)
   Industrial Arts
D. Professional Courses:
1. 12 semester hours in secondary education:
   Education 3312 — The Adolescent Learner: His Growth and Development
   Education 3330 — The Secondary School: Principles and Procedures
   Education 4331 — Secondary Teaching: Evaluation and Guidance
   Education 4332 — Secondary Teaching: Curriculum and Materials
2. 6 hours of student teaching (or with two years of successful teaching experience in the area and level of the certificate desired, substitute 6 additional hours of approved secondary education courses).

IV. Other Requirements for Elementary or Secondary Certificate:
A. A minimum of 12 hours in residence.
B. The statutory requirements of American History (6 hours) and State and Federal constitutions (6 hours).

Persons already certified as secondary teachers, for additional endorsement as elementary teachers: (a) complete 12 semester hours of "content" (from III-C-3), and (b) 6 semester hours of elementary education (Education 3320 and Education 4321, or their equivalents).

Persons already certified as elementary teachers, for additional endorsement as secondary teachers: (a) meet specialization requirements in III-A or III-B, or III-C, and (b) 6 semester hours of secondary education, including Education 3330.

For Professional Certificates

Persons interested in any Professional Certificate should:
1. Apply for admission through the Graduate School office.
2. Request specific information from the Director of Professional Certificates, Department of Education.

Approved programs leading to the Professional Certificate are offered by the University in the following areas:

Elementary
Secondary (Plan I)
   Biology
   Business
   Chemistry
   English
   Health-Physical Education
   History
   Mathematics
   Music
   Political Science
   Spanish

Secondary (Plan III)
   Industrial Arts

Special Education
   Educational Diagnostician
   Speech-Hearing Therapy

Special Services
   Administrator (1966)
   Counselor
   Middle Management (1972)
   Reading Specialist
   Superintendent (1972)
   Supervisor
   Visiting Teacher

For the Administrator's Certificate

Regulations adopted in 1972 provide a 45-hour program for a certificate for "Middle Management" (including the principalship) and a 60-hour program for certification as a superintendent. Applicants beginning graduate work should enter this program. Consult with the Director of Professional Certificates, Department of Education, for details.

Admission to this program will be on recommendation of a screening committee, which will judge each candidate on his/her previous academic record, experience record, score on the Graduate Record Examination, and on the basis of a formal interview.
# Graduate Degrees

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<tr>
<th>DEPARTMENT/MAJOR</th>
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*In addition to majors and concentrations, there are a number of endorsements and certification programs available within the framework of the degree programs mentioned above. All inquiries concerning ADMINISTRATIVE EDUCATION, VISITING TEACHER SUPERVISOR, EARLY CHILDHOOD, BI-LINGUAL/BI-CULTURAL, AND GUIDANCE ASSOCIATES programs should be directed to the Department of Education.
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**Available with a major in Computer Science.**

***Areas of concentration may be selected from LANGUAGE/LEARNING DISABILITIES, GENERIC, SPEECH/HEARING THERAPY, MENTAL RETARDATION, and EMOTIONALLY DISTURBED. There is a composite program leading to certification as ASSOCIATE SCHOOL PSYCHOLOGIST and as EDUCATIONAL DIAGNOSTICIAN. For details, consult the Dean, School of Education.***
Interdisciplinary Studies

(Interdepartmental) Studies

Degree Programs

The Interdisciplinary Studies program leading to the degree of Master of Arts in Interdisciplinary Studies or Master of Science in Interdisciplinary Studies is designed for the mature student whose educational needs will be met best by a non-traditional course of study. Traditional admission standards may be eased and supplemented by evidence of success in career, an occupation, or a profession.

Each Interdisciplinary Studies student will be assigned a committee to help plan a 39 hour, 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.

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 these areas. Those who do wish to follow a program of Interdisciplinary Studies should confer with the Dean of the Graduate School or an Interdisciplinary Studies adviser.
School of Applied Arts

Department of Agriculture

Graduate Faculty

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

Elliott, James Denton, Professor of Agriculture. B.S., M.S., Oklahoma State University; Ph.D., Cornell University.

Helm, Raymond Edgar, Associate Professor of Agriculture. B.S., M.S., Ph.D., Texas A&M University.

Knotts, Clifton Don, Associate Professor of Agriculture. B.S., M.Ed., Sam Houston State University; Ph.D., Texas A&M University.

Miller, Roy V., Jr., Professor of Agriculture, and Chairman of the Department 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, Associate Professor of Agriculture. B.S., M.S., Ed.D., Oklahoma State University.

Degree Programs

The Department of Agriculture, in conjunction with the Department of Education, offers the degree of Master of Education. This degree consists of 6 hours of Education, 15 hours of Agricultural Education, and 15 hours of Agriculture.

Courses Offered

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. (2-2) Advanced problems in range management such as range and ranch economics, control, and proper stocking.

5347 Conservation of the Natural and Agricultural Resources. (3-0) A study of resources related to farm and community life; special emphasis on the conservation of soil, water, forest, range land, wildlife, minerals, health, and safety. Visiting consultants in the above fields will be used.

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

*May be repeated for additional credit when problem differs.
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

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

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

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

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 and Counseling for Vocational Students. (3-0) Analysis of occupational and vocational opportunities for vocational students; techniques of individual and group counseling in guidance. Practicum 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 upon 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) Planning, organizing, implementing, and conducting vocational technical laboratory programs will be emphasized. Shop program management functions such as equipment selection, purchasing, maintenance, shop budgets, inventories and supply needs will be studied. Writing educational specifications in planning for vocational and technical shop facilities will be included.

*May be repeated for additional credit when problem differs.
School of Business
Graduate Division
Graduate Faculty

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

Bishop, Bill Joe, Professor of Accounting and Computer Science, and Chairman of the Department of Accounting and Computer Science and the Department of Finance and Economics. B.B.A., M.B.A., North Texas State University; Ph.D., The University of Texas at Austin, C.P.A.

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

Cook, James R., Associate Professor of Accounting and Computer Science. B.B.A., M.B.A., West Texas State University; D.B.A., Texas Tech University, C.D.P., C.C.P.

Eure, Jack Douglas, Jr., Associate Professor of Management and Marketing. B.B.A., M.B.A., North Texas State University; Ph.D., Louisiana State University.

Gallagher, Michael C., Associate Professor of Management and Marketing. B.B.A., Southwest Texas State University; M.B.A., Texas A&I University; Ph.D., Texas A&M University.

Halatin, Theodore Joseph, Assistant Professor of Management and Marketing. B.A., Monclair State College; M.S., The University of Colorado; D.B.A., Texas Tech University.

Holmes, Robert Edward, Professor of Management and Marketing and General Business, and Chairman of the Departments of Management and Marketing and General Business. B.B.A., The University of Texas at Austin, M.B.A., North Texas State University; Ph.D., University of Arkansas.


Hunnicutt, Garland Gail, Assistant Professor of Management and Marketing. A.S., Odessa College; B.A., B.B.A., The University of Texas at Austin, M.B.A., Ph.D., The University of Arkansas.


Morgan, Celia Ann, Associate Professor of Finance and Economics. A.A., Lamar State College of Technology; B.B.A., The University of Texas at Austin, M.A., Ph.D., University of Houston.

Reese, Otis Grant, Associate Professor of Accounting and Computer Science. B.B.A., M.A., Southwest Texas State University, C.P.A.

Roach, Ed Dupree, Professor of Management and Marketing, and Dean of the School of Business. B.B.A., M.B.A., North Texas State University; Ph.D., The University of Texas at Austin.

Savage, Vernon Howard, Associate Professor of Finance and Economics. B.A., M.A., North Texas State University; Ph.D., The University of Texas at Austin.
Stevenson, Robert Mahaffey, Professor of Finance and Economics. B.A., Duke University; M.A., Pennsylvania State University; D.B.A., Indiana University, C.P.A., C.L.U.

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

Yeary, James Donald, Associate Professor of Accounting and Computer Science. B.B.A., M.S.A., Texas Tech University; Ph.D., Oklahoma State University, C.P.A.

Degree Programs

The School of Business offers the degree of Master of Business Administration, consisting of a minimum of 30 hours of study including a thesis or 36 hours of study without a thesis. All hours may be taken within the curriculum of the School of Business with no minor requirements. Background normally consists of a baccalaureate degree in Business Administration or 30 hours in the field to include the following courses or their equivalents: accounting, 6 hours; economics, 6 hours; business law, 3 hours; finance, 6 hours; management, 3 hours; marketing, 3 hours; statistics, 3 hours.

Courses Offered

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

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

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.

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.

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

5324 Industrial Organization and Regulation. (3-0) The course 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.

5330 Industrial Relations. (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.

5331 Advanced Statistical Methods. (3-0) A study of probability, sampling methods, statistical inference, analysis of variance, chi-square, multiple and partial regression, and the use of these as tools for the purpose of decision making in business and economics.

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

Prerequisite: Six hours of Business Administration statistics.

*5333 Problems in Business Administration. The student is given the opportunity to work in the field of his special interest, particularly in the subject of accounting, business law, marketing, statistics, finance and insurance. The course will be conducted by conferences between the student and instructors concerned: Problems will be assigned as nearly as possible for the needs of the individual student.

5340 Seminar for Computer Science in Business. (3-0) The design, construction and programming of computer solutions in the fields of business and economics.

5342 Basic Computer Systems. (3-0) Concepts of computer logic and computer systems. Applications of software systems to the development of models for organizational decision making. The student will program decision models and basic file-oriented information systems using FORTRAN and COBOL.

5343 Computer-Based 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 system analysis and design.

5344 Introduction to Computer Simulation. (3-0) Use of discrete simulation languages in the modeling of complex business problems. Instruction involving the programming in a simulation language of a structured set of problems.

5361 Advanced Accounting Theory. (3-0) An examination of the theory of business income, evaluated in the light of criticisms implicit in other concepts of income. The social significance of accounting; valuation principles and presentation of financial statements.

*May be repeated once with different emphasis for additional credit.
5362 **Cost and Managerial Accounting Theory.** (3-0) A study of recent developments and controversial topics in the area of cost and managerial accounting. Includes a discussion of quantitative techniques and their applicability to accounting problems.

5363 **Contemporary Accounting Theory.** (3-0) A study of the development of current accounting theory including pronouncements by the Accounting Principles Board. Emphasis is placed on currently controversial topics.

5367 **Advanced Seminar in Finance.** (3-0) A study of the functioning of financial institutions which are the center of credit flows within our economy.

5376 **Economic Education I.** (3-0) Designed to develop basic economic concepts secondary students can understand and use.

5377 **Economic Education II.** (3-0) Designed to help secondary students solve meaningful problems they face by applying basic economic analysis.
Prerequisite: Business 5376, or consent of instructor.

5378 **Advanced Economic Theory.** (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.

5387 **Financial Control.** (3-0) Actual and hypothetical cases which integrate the theory of finance, data acquisition, and procedural skills.

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.

5399 or 5699 **Thesis.**
School of Creative Arts
Department of Art

Graduate Faculty

Henry, Frances Louise, Assistant Professor of Art. B.A. in Art Education, Sam Houston State University; M.A. in Fine Arts, California State University, Fresno; D.Ed., Arizona State University. (Special Interests: 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. (Painter in oils and watercolor. Special interest in Art Education. Extensive experience in public school administration)

Marlow, Foster Leroy, Professor of Art. B.S. in Ed., M.S. in Ed., Eastern Illinois University; D.Ed., Pennsylvania State University. (Specialist in Art Education, crafts and design. Experienced in public school and university administration)

Row, Brian Gillow, Associate Professor, and Chairman of the Department of Art. B.F.A., M.F.A., University of Colorado.

Suckle, Charles John, Professor of Art. B.S. in Ed., Western New Mexico University; M.A., New Mexico Highlands University. (Potter, Jeweler, twenty-eight years experience. Administrative experience, college and university)

Williams, Tommy Carroll, Assistant Professor of Art. A.A., Lubbock Christian College; B.S., West Texas State University; M.Ed., Ph.D., University of Oklahoma. (Art Historian, Ancient, Medieval, Contemporary and Pre-Columbian)

Degree Programs

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

*5321 Painting Studio. (3-3) Studio course urging independent involvement in a specialized area of painting.
   Prerequisite: 6 hours of painting.

*5323 Research in Art Theory and Practice for the Elementary Grades. (3-0). Research in art literature, studio and teaching practices.
   Prerequisite: Art 3323, or teaching experience.

*5325 Research in Art Theory and Practice for Art beyond the Elementary Grades. (3-0) Research in art literature, studio and teaching practices.
   Prerequisite: Admission to Graduate School in Education.

*May be repeated with different emphasis for additional credit.
*5327 Ceramic Problems. (3-3) In-depth exploration of expressive and technical aspects of clay and glazes. Kiln stacking and firing techniques.
    Prerequisite: Art 4327.

*5365 Jewelry. (3-3) Emphasis is on the experimental elements in jewelry making. Development of individual design emphasized.
    Prerequisite: Art 3365, 4365.

5393 History of Mexican Art. (3-0) The history of art and architecture in Mexico from colonial times to the present.

*May be repeated with different emphasis for additional credit.
Department of Music

Graduate Faculty

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


Callahan, Maurice Moore, Associate Professor of Music. B.M., Bethany College; M.A., Colorado State College. (Brass, Music Education)

Ham, Harry Candidus (Harry Wayne), Associate Professor of Music. B.M., M.M., North Texas State University. (Voice)

Harrel, John Ralph, Professor of Music, Associate Vice President for Academic Affairs, and Dean of the School of Creative Arts. B.M., Bethany College; M.A., Ed.D., Columbia University Teachers College. (Piano)

Hiebert, Arlis John, Professor of Music and Chairman of the Department of Music. B.M., University of Oklahoma; M.M., Ph.D., George Peabody College. (Voice, Music Education)

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

Reynolds, Martha Helen, Assistant Professor of Music. B.A., Manchester College; M.M., Pius XII Institute, Villa; Ph.D., North Texas State University. (Voice, Music Education)

Riepe, Russel Casper, II, Associate Professor of Music. B.M., Southern Illinois University; M.A., Ph.D., Eastman School of Music, University of Rochester. (Theory, Composition)

Whalin, John Robert, Associate Professor of Music. B.M., Oberlin College; M.M., D.Mus., Indiana University. (Piano)

Wolverton, Byron Adams, Associate Professor of Music. B.Mus., M.A., University of Missouri; Ph.D., Indiana University. (Keyboard, History and Literature)

Degree Programs

The Department of Music offers graduate work in music education, applied music, music theory and composition, and music history and literature, leading to the Master of Education degree with a major in Music or Music Education. The program normally consists of a major of 21 hours and a minor of 15 hours. The minor may be in Music, in Music Education, or in a field outside the department in which there is sufficient undergraduate background.

A flexible program is offered which allows a choice of emphasis in any of the areas of music listed above. 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 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 Aids Program: Financial assistance is available to graduate students in the Music Department through appointment as Assistant Instructors (with teaching duties in music fundamentals and applied 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 Music Department.

Courses Offered

**5136, 5236 Graduate Music Workshop.** (20 hours or more per week per credit hour) Workshops in music are scheduled at periodic intervals with emphasis in varying subject areas. One hour credit per week of workshop study is available. No more than four hours can be used 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.

**May be repeated for additional credits.**
5221 **Vocal and Choral Techniques and Materials.** (2-0) Methods for the development of the singing voice, both in solo and in chorus. Classification and analysis of teaching materials.
   Prerequisite: Music 3227.

5222 **Instrumental Techniques and Materials.** (2-0) Evaluation of teaching methods, materials, and literature of wind and string instruments.
   Prerequisite: Music 3217.

*5227 **Advanced Conducting.** (2-0) Further development of baton technique, score reading, and rehearsal preparation, with special emphasis on analysis and musical styles.
   Prerequisite: Music 3217 or 3227.

5310 **Music Literature of the Baroque.** (3-0) Style characteristics and literature of the music of 1600-1750, with special emphasis on Bach and Handel.

*5313, *5317 **Problems in Music Education.** (3-0) Study of one or more problems in music education that hold special interest or offer opportunity for professional improvement and growth.

5314 **Survey of Twentieth Century Music.** (3-0) Emphasis upon 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.

5334 **Introduction to Graduate Study in Music.** (3-0) Techniques and materials of research, emphasizing bibliography, library usage, collection and interpretation of data.

5335 **Piano Literature.** (3-0) A survey of keyboard music with performance and discussion of works from various historical periods.

*5336 **Seminar in Music Education.** (3-0) A seminar course designed to acquaint the student with research techniques and procedures in music education. Formulation of a research problem, definition, design, procedure; technique for location, collection, qualification and treatment of data. Each student is expected to carry out a practical or creative project or investigation.

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.

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*May be repeated once with different emphasis for additional credit.*
Applied Music

**5101, 5102 Applied Music: Graduate Organ. (0-1) Private instruction in music through performance.

**5105, 5106 Applied Music: Graduate Orchestral Instructions. (0-1) Private instruction in music through performance.

**5111, 5112 Applied Music: Graduate Piano (0-1) Private instruction in music through performance.

**5115, 5116 Applied Music: Graduate Voice. (0-1) Private instruction in music through performance.

**5201, 5202 Applied Music: Graduate Organ. (0-1) Private instruction in music through performance.


**5211, 5212 Applied Music: Graduate Piano. (0-1) Private instruction in music through performance.

**5215, 5216 Applied Music: Graduate Voice. (0-1) Private instruction in music through performance.

**5301, 5302 Graduate Organ. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

**5305, 5306 Graduate Orchestral Instruments. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

**5311, 5312 Graduate Piano. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

**5315, 5316 Graduate Voice. (0-1) Private instruction in music through performance. Normally open only to students on a recital program.

**May be repeated for additional credit.
Department of Speech Communication and Theatre Arts

Graduate Faculty

Baergen, John Darrel, Professor of Speech Communication and Theatre Arts. A.B., Oklahoma Baptist University; M.A., Baylor University; Ph.D., University of Denver.

Barton, James Gabriel, Professor of Speech Communication and Theatre Arts. B.F.A., Nebraska State Teachers College; M.A., University of Michigan.

Cheatham, Thomas Richard, Professor of Speech Communication and Theatre Arts, and Chairman of the Department of Speech Communication and Theatre Arts. B.A., Wayland College; M.A., Ph.D., Purdue University.

Clifford, John Edward, Professor of Speech Communication and Theatre Arts, and Director of Theatre. B.S. in S.S., John Carroll University; M.A., St. Louis University; Ph.D., Michigan State University.

Coulson, J. Peter, Professor of Speech Communication and Theatre Arts. B.F.A., M.A., University of Arizona; Ph.D., University of Kansas.

Flemming, David George, Assistant Professor of Speech Communication and Theatre Arts. B.A., Adelphi College; M.A., Cornell University.

Gratz, Robert David, Associate Professor of Speech Communication and Theatre Arts, and Dean of the School of Applied Arts. B.S., Lamar University; M.A., Ph.D., Bowling Green State University.

March, Frederick Joe, Assistant Professor of Speech Communication and Theatre Arts. B.A., M.A., Texas Tech University.

Porter, Mary Erin, Associate Professor of Speech Communication and Theatre Arts. B.A., M.A., Ph.D., The University of Texas at Austin.

Rush, David Alan, Associate Professor of Speech Communication and Theatre Arts. B.A., University of Illinois; M.A., University of Iowa; Ph.D., University of Illinois.

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

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

Williams, Marvin Lee, Assistant Professor of Speech Communication and Theatre Arts. B.A., Hardin-Simmons University; M.A., Ph.D., University of Oklahoma.
Degree Programs

The Department of Speech Communication and Theatre Arts offers major and minor programs in both speech communication and theatre arts. The 30-hour Master of Arts degree program includes from 17 to 20 hours of course work in the major field, from 6 to 9 hours in a minor field, and 6 hours of thesis credit. Students may choose to major and minor within the Department of Speech Communication and Theatre Arts, or they may select from the wide range of minors offered in other departments. All majors in the Department must complete an introduction to graduate research course. Speech communication majors may concentrate in rhetoric and criticism, interpersonal and group communication, communication theory, or speech education. Theatre arts majors may specialize in stage directing, technical theatre, theatre history and criticism, or playwriting.

While it is possible to complete the degree requirements within a twelve-month period, many majors elect to extend the period over two years. This tendency is especially prevalent among theatre arts majors, because a large number of their courses involve extensive out-of-class practicum training periods. Students from several other departments select minors in either speech communication or theatre arts. Additionally, other students take some courses in the Department as part of a composite minor in a Master of Education degree.

The Department's twenty-member faculty is almost evenly divided between those with expertise in speech communication and those with expertise in theatre arts. Many of these faculty members have an active record of involvement in state, regional, and national professional associations as well as on-going activity in the area of published research or creative activities. The Department is housed in the modern Speech-Drama Center, one of the best facilities for speech and drama activities in the entire Southwest. Graduate students in theatre arts are often actively involved in the University Theatre's production program.

Financial Aids Program: A large number of graduate majors in the Department of Speech Communication and Theatre Arts are employed as either Instructional Laboratory Assistants or as Assistant Instructors.

Courses Offered

Speech Communication

*5315 Directed Research in Speech Communication (3-0) A course, corresponding to Speech 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.

5317 Cultural Dimensions of Effective Speech Communication. (3-0) Examines the effects of culture on speech communication focusing on application of this knowledge in improving communication in multi-cultural situations.

5318 Seminar in Interpersonal Communication. (3-0) A review of current research and a presentation of both rhetorical and behavioral perspectives on the area. Special emphasis on development of personal competencies in interpersonal communication situations.

*May be repeated once with different emphasis for additional credit.
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.

*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 his student's efforts.

5322 Rhetorical Theory. (3-0) A study of the history and works of rhetorical theorists from classical to twentieth century.

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.

*5325 Seminar in Human Communication Theory. (3-0) An examination of non-rhetorical theories of speech communication, including a survey of recent experimental evidence on human communication.

*5343 Twentieth Century Communication Strategies. (3-0) The analytical study of speeches, speakers, groups, movements, and rhetorical strategies in contemporary society.

5347 Seminar in Small Group Communication. (3-0) An examination of theories and research evidence about communication in the small group.

5351 Descriptive Phonetics. (3-0) A study to develop the student's skill in using the International Phonetic Alphabet to describe variant patterns of oral English.

5361 Performance Techniques for Oral Interpretation (3-0) A study of interpretation technique and program building for the individual reader, with emphasis on performance.

Theatre Arts

*5349 Studies in Advanced Technical Theatre Production Techniques. (3-2) The study of advanced contemporary staging, construction, and lighting techniques, with attention given to the use and operation of theatre equipment. Practical experience in University productions as required for one semester.

*5357 Scene Design. (3-2) Seminar on design, emphasizing the presentation and justification of executed renderings or models for selected plays. Emphasis on styles of staging, settings, lighting and properties, and their relationship to the complete production.

*5360 Problems in Theatre. (3-0) Designed to give supervised experience to qualified advanced students in theatre history, playwriting, directing, acting, technical, or other theatre problems. Research problems or actual production problems may be chosen.

5365 Backgrounds of Modern Drama. (3-0) An analysis of those developments in dramatic literature which formed the basis of modern drama. Primary emphasis will be on 19th and early 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 Contemporary World Theatre and Drama. (3-0) Studies of current trends in world theatre and drama.

*May be repeated once with different emphasis for additional credit
*5377 Studies in Advanced Theatre Directing. (3-0) A study of directors, theories, and problems of directing in the contemporary theatre.

*5387 Directing Practicum. (0-3) A 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 will be given to theatre organization and management.

Speech Communication or Theatre Arts

*5110 Seminar in Speech and Drama. (1-1) A graduate student majoring in speech or drama is required to absolve a minimum of two semester hours in this course in addition to the standard requirements for the advanced degree.

*5300 Problems in Speech and Drama Research. (3-0) An examination of problems and research techniques in speech and drama. Historical, critical, descriptive, and experimental research approaches will be surveyed, and basic procedures in research report writing will be considered.

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. Enrollees in 5310 will be especially concerned with teaching speech or drama at the college level.

*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.

*5370 Studies in Advanced Creative Dramatics for Children. (3-0) Studies of the methods of creative dramatics and their use in the classroom. Attention is given to creativity and creative teaching.

5399 or 5699 Speech or Drama Thesis.

*May be repeated once with different emphasis for additional credit.

The circular Speech-Drama Center provides an attractive, functional setting for all levels of speech and drama instruction.
School of Education
Department of Education

Graduate Faculty


Blythe, Hal Tucker, Associate Professor of Education. B.S.E., M.S.E., State College of Arkansas; Ph.D., East Texas State University.

Brown, William Frank, Professor of Education. B.S., Trinity University; M.A., Ed.D., The University of Texas at Austin.

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

Cole, F. Margaret, Assistant Professor of Education. B.A., M.Ed., Ph.D., University of Arizona.

Conoley, Colleen Wyatt, Professor of Education. B.A., University of Arkansas; M.A., Ph.D., The University of Texas at Austin.

Dorsey, Oscar Lee, Professor of Education and Dean, Public Service, Adult and Continuing Education. A.A., Angelo State University; B.S., Abilene Christian College; M.Ed., Ph.D., Texas A&M University.

Garland, James Jasper, Professor of Education, and Dean of the School of Education. B.S., M.A., and Ed.D., Baylor University.

Gaddis, Marilyn T., Assistant Professor of Education. B.A., Pomona College; M.A., Claremont Graduate School; Ph.D., University of Wisconsin.

Hatcher, Barbara Ann, Assistant Professor of Education. B.S., The University of Texas at Austin; M.Ed., Southwest Texas State University; Ed.D., North Texas State University.

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

Henry, William Gammon, Jr., Associate Professor of Education, and Director of Audio-Visual Aids. B.M., North Texas State University; M.S.Ed., Ph.D., Indiana University.

Hughes, Billie Edward, Associate Professor of Education. B.A., Howard Payne University; M.Ed., Ed.D., North Texas State University.

Jorgenson, Christabel B., Assistant Professor of Education. B.A., Texas Lutheran College; M.Ed., Texas Christian University; Ph.D., Texas Woman’s University.

Juel, Martin Oliver, Professor of Education. B.A., St. Olaf College; M.Ed., Ph.D., University of Minnesota.

Kurtz, William Harry, Assistant Professor of Education. B.S., Northwest Missouri State University; Ed.D., University of Missouri.
Lorenz, Larry Roland, Assistant Professor of Education. B.S., M.Ed., Southwest Texas State University; Ph.D., Texas A&M University.

McCanne, Hazel Beatrice, Professor of Education. B.S., M.S., North Texas State University; Ph.D., Northwestern University.

McCaskill, Edwin Odell, Assistant Professor of Education. B.S., M.Ed., Sam Houston State University; Ed.D., East Texas State University.

McDaniel, Elizabeth Logan, Associate Professor of Education. B.A., University of California at Los Angeles; M.S., University of Illinois; Ph.D., The University of Texas at Austin.

Miller, Damon J., Associate Professor of Education. B.A., M.Ed., Howard Payne College; Ph.D., The University of Texas at Austin.

Moore, Betty Jean, Associate Professor of Education. B.A., Pasadena College; M.A., University of Nevada; Ph.D., University of Illinois.

Moore, Joe Midge, Associate Professor of Education. B.S., M.Ed., Ed.D., North Texas State University.

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

Nicosia, Ralph Timothy, Assistant Professor of Education. B.S., M.Ed., Ed.D., North Texas State University.

Rodriguez, Carlos G., Assistant Professor of Education. B.S., M.A., Southwest Texas State University; Ph.D., The University of Texas at Austin.

Seifert, Edward Hermann III, Assistant Professor of Education. B.S., Central Missouri State University; M.S., Northwest Missouri State University; Ed.D., Oklahoma State University.

Smith, Milton Lloyd, Professor of Education. B.S., University of Corpus Christi; M.S., Texas A&I University; Ph.D., The University of Texas at Austin.

Sparks, Rebecca Lewis, Associate Professor of Education. B.A., Baylor University; B.S., Texas Woman's University; Ed.D., North Texas State University.

Stevens, Paul Lester, Professor of Education. B.S., Texas A&M University; M.Ed., The University of Houston; Ph.D., Texas A&M University.

Thomas, Jerry L., Associate Professor of Education. B.S., M.S., New Mexico Western College; Ph.D., The University of Texas at Austin.

Williamson, Bobby Lee, Professor of Education. B.S., Texas A&M University; M.Ed., Southwest Texas State University; Ed.D., Colorado State College.

Willoughby, Jack Michael, Associate Professor of Education. B.S., Texas A&M University; M.Ed., Southwest Texas State University; Ed.D., University of Southern Mississippi.

Wilson, Ben, Jr., Assistant Professor of Education. B.S., M.Ed., University of Houston; Ed.D., Baylor University.

Worley, Stinson Ezell, Professor of Education. B.A., Baylor University; M.Ed., Ed.D., North Texas State University.

Zunker, Vernon George, Professor of Education, and Director of the Counseling Center. B.S., Texas Lutheran College; M.Ed., Trinity University; Ed.D., University of Houston.
Degree Programs

The Department of Education offers a variety of degrees and programs. Before proceeding into any field of Education at S.W.T.S.U., the degree applicant should inquire as to certification requirements associated with or prerequisite to the degree. One must constantly keep in mind that certification requirements and graduate degree requirements may not be related in any way 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 Education on the basis of teaching experience.

It is possible to earn the degree of Master of Arts in most areas of Education with a minimum of 30 semester hours including the thesis. The Master of Education degree is usually the appropriate course of study if the student desires to complete certification of some type.

The degree of Master of Education consists of a minimum of 36 hours without the thesis. Semester credit hour requirements vary within the major and minor areas.

Major programs are available in the following areas:

- **Counseling and Guidance.** This major usually consists of a minimum of 24 hours of Education and a minor or split minor of 12 hours.
- **Elementary Education.** This major usually consists of 24 hours in Education and an academic minor of 12 hours or a composite minor grouped under the title of Methods and Materials.
- **Reading Education.** This major consists of a minimum of 39 hours in a composite program. It is generally recommended for holders of elementary certification.
- **Secondary Education.** This major usually consists of 18 hours in Secondary Education, a 12 hour academic specialization and a 6 hour academic resource. If the Secondary Education major is used in conjunction with a certification program in Administration, the degree plan generally calls for a 24 hour major in Secondary Education, a 6 hour minor in Sociology and a 6 hour minor in Psychology, or a 12 hour academic minor.
- **Management of Vocational/Technical Education.** This major is a highly specialized composite degree program. It has flexibility of coursework which can be tailored to complement and strengthen individual student interests and backgrounds. An administrative core is common to all degree outlines. Supporting work may lead to certification as a vocational teacher, coordinator, administrator, or supervisor. Vocational counselor orientation is also possible. This program is particularly adaptable to prior military service personnel who desire to teach in community colleges.

In addition to majors and concentrations, there are a number of endorsements and certification programs available. All inquiries concerning the VISITING TEACHER, EDUCATIONAL ADMINISTRATOR, SUPERVISOR, EARLY CHILDHOOD, BILINGUAL/BICULTURAL and GUIDANCE ASSOCIATES programs should be directed to the Department of Education.

Additional, non-major programs are available in the following areas:

- **Administrative Education.** The program in Administration offers two distinct areas for certification as Texas public school administrators: Mid-Management, a 45 hour program, and the Superintendency, requiring 15 hours in addition to the 45 hours of the Mid-Management level. These certificates fulfill requirements for administrative positions such as elementary, middle, or secondary principal, and central office positions. The degree of Master of Education is awarded after completion of 36 hours/specified.
Leadership skills, administrative principles, legal and financial procedures, as well as personnel management, curriculum development, sociological and psychological aspects of school administration, are presented to the student. Scheduling of courses is planned to permit public school teachers to acquire the Master's degree and subsequent certification while continuing to work.

**Supervision.** The program in Supervision offers Texas certification with a 45 hour program. A degree of Master of Education is awarded after the student completes 36 hours of the prescribed program. This plan consists of courses in curriculum, educational leadership, and community liaison skills. The student may choose to specialize in elementary, vocational, early childhood, bilingual, or special education.

**School Psychologist.** This interdepartmental (Education, Psychology, and Special Education) certification 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.

**Courses Offered**

**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) This is 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, this course gives an opportunity for teachers to up-grade their skills and knowledge. A letter following the course number will indicate the areas of emphasis according to this code: (a) School Psychology, (b) Administration, (c) Counseling, (h) Supervision, (i) Elementary, (j) Secondary, (k) Early Childhood, (l) Bilingual, (r) Reading.

**5201 Methods in Secondary Aviation/Aerospace.** (2-0) One of the two courses for qualifying as teacher of Aviation/Aerospace Education in the secondary school. Deals with means of implementing the secondary program, and with techniques, methods, and resources for the secondary course.

**5202 Development, Organization, and Use of Instructional Material.** (2-0) The course is designed to assist the vocational education teachers in conducting instruction. It includes the selection of lesson content, planning the lesson, and the use of various instructional sheets that will assist the teacher. Emphasis will be placed on the correct development of instructional sheets. Also, a study will be made of the different methods that may be used to secure, evaluate, and incorporate this material into the instructional program. A study will also be made of the various methods of testing the effectiveness of the instruction and how the progress of the student may be recorded for future references and class planning.

**5204 Human Relations for Vocational Education Teachers.** (2-0) This course is designed to aid vocational teachers in establishing and maintaining effective relationships with students, co-workers, other school personnel, industry, and persons in the community. The course includes a review of the principles of learning. Principles and skills in working with people will be developed through a study of: influences of heredity and environment, basic wants and needs, motivational factors, development of positive attitudes, teacher-student relationships, leadership development, and elements of effective communication. A study of techniques of identifying and arriving at probable solutions to problems in human relations will be included.

*May be repeated once for additional credit at discretion of the Chairman of the Department.
5205 Shop and Classroom Organization and Management. (2-0) This course is designed to assist vocational education shop or laboratory instructors in the organization and management procedures used in vocational shop programs. The course 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) This course is designed to assist vocational industrial teachers in the gathering, organizing and preparing of teachable material based upon sound occupational practices. The course 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) The course is designed to assist the beginning teacher-coordinator in organizing and operating cooperative training programs in the community. The course 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) The course consists of a review of basic standards for Cooperative Education Training Programs and the underlying reasons for such standards with emphasis on the solution of actual problems in program operation. The course includes study of the 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.

*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 area of emphasis according to this code: (a) School Psychology, (b) Administration, (c) Counseling, (h) Supervision, (i) Elementary, (j) Secondary, (k) Early Childhood, (l) Bilingual, (r) Reading.

*May be repeated once for additional credit at discretion of the Chairman of the Department.
5301 Methods of Teaching Vocational Subjects. (3-0) This course is 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.

5303 Aims and Objectives of Vocational Education. (3-0) This course is designed to assist the vocational teacher to recognize his/her relationship to the operation of the public education system at the local, state, and national levels. Major emphasis is placed upon vocational education programs and legislation. The course includes a 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 will be discussed.

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.

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

5308 History and Philosophy of Teaching the Gifted/Talented. (3-0) Examination of the history and philosophy for teaching gifted/talented students. Focus will be upon 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 upon program content, materials, guidance, and development of related curriculum materials.

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. The course 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.

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 affectional processes, and peer relationship. This course is offered as a workshop in the summer term, with two hours of laboratory each week by arrangement.

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 upon increasing scientific knowledge of culture, self-development, and self-adjustive areas of development. This course is offered as a workshop in the summer term, with two hours of laboratory each week, by arrangement.

Prerequisite: Education 5313, or approval of the instructor.
5317 Teaching Strategies for Elementary Teachers: Alternative Models. (3-0) Alternative teaching models based upon 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 Advanced Early Child Development: Readiness for Learning and Language Abilities. (3-0) A study of the cognitive, affective, and psychomotor factors bearing on the young child’s readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience.

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

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) This course is 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; and use of traditional and innovative methods and materials 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.

5324 Teaching Reading in the Secondary School. (3-0) This course 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.

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) This course defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management, the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation.

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

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

5331 Procedures and Practices for Teaching Reading to Black, Spanish and other Multi-Ethnic Pupils. (3-0) This course deals with the linguistic and reading problems unique to pupils whose native language or dialect is other than standard Middle-American English, with particular emphasis on pupils of Afro-American or Mexican-American heritage. Other topics include: teaching English as a second language; teaching reading in a bilingual school setting; creating innovative methods and materials for bilingual pupils.

5332 Remediation of Reading Disabilities. (3-0) Methods and materials for teaching pupils with specific reading disabilities. Course 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: Education 5323.

5333 The Secondary Curriculum. (3-0) A brief history of curriculum development with special emphasis upon 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.

5334 Public School Curriculum Leadership. (3-0) This course is 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.
5335 Clinical Practicum and Internship in Reading Disabilities. (3-4) This is an 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. The 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 of successful full-time teaching; Education 5323, 5332, and consent of instructor.

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.

5342 Supervision of the Elementary School. (3-0) General organization for supervision; problems of classification, grouping; the principal's routines; in-service training; improvement of other teacher-learner situations.

5343 Supervision of the Secondary School. (3-0) Organization of the secondary school; classification, progress and promotion; duties of the principal, in-service training; standards for performance appraisal; methods of improving instruction.

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 business and personnel functions, office management, scheduling, administration of the curriculum, the library and other auxiliary services, the extra-curricular program, the guidance program, the school plant.

5349 Interpersonal Behavior. (3-0) Process 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.

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, purposes 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.

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. The following problem areas will receive in-depth examination: (1) delineation of 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.

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.
Prerequisite: Education 5305, or approval of the instructor.

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.

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.

5366 Seminar in Individual and Group Counseling (Advanced). (3-0) The 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.

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, 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.

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.
Prerequisite: Graduate standing.

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

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

Prerequisite: Advanced education, psychology, anthropology, or sociology, including child development or child psychology, and consent of the instructor.

5377 Psychological Assessment II. (3-0) Advanced investigations in personality dynamics and role expectation; 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. See Psychology 5377.

Prerequisite: Psychological Assessment I 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 this code: (a) School Psychology, (b) Administration, (c) Counseling, (d) Junior College, (h) Supervision, (i) Elementary, (j) Secondary, (k) Early Childhood, (l) Bilingual.

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

Prerequisite: Twelve 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 and parents.

*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 areas according to this code: (a) School Psychology, (b) Administration, (c) Counseling, (d) Junior College, (h) Supervision, (i) Elementary, (j) Secondary.

5390 Research Seminar in Elementary Education. (3-0) A course in which 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.

Credit may be applied toward certification as elementary principal, or as a teacher of the mentally retarded, when an appropriate research problem is chosen.

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

Credit may be applied toward certification as a secondary principal or as a counselor, or for credit in supervision when an appropriate research problem is chosen.

A letter following the course number will indicate the area, according to this code: (B) Administration, (C) Counseling.

*May be repeated once for additional credit at discretion of the Chairman of the Department.
5392 The Community Junior College. (3-0) An 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) A study of curriculum development in the community junior college with special emphasis upon 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 upon the instructor, his/her preparation, qualifications, and performance. Instructional strategies appropriate to the needs of junior college students, including adults, will be studied.

5399 or 5699 Thesis.

5401 Aeronautics for Secondary Teachers. (3-2) One of the two courses for qualifying as teacher of Aviation/Space Education in the secondary school. Deals with the fundamentals of aeronautics: the science of flight, aircraft systems and instruments, meteorology, navigation, and air traffic control and communications.

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

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

6344 Educational Leadership through Human Relations. (3-0) An examination of human relations concepts involved in educational administration. Consideration of such topics as the relationships involved in the social setting and educational environment; personal qualities of leadership conducive to good human relations; decision making; techniques of effective communications, group dynamics.

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 on administrative theory as related to decision-making: the first half of the course devoted to the consideration of administrative theories and principles, and the second half to the practical application of theory and principle to recent and/or continuing problems of school administration. Decision-making is emphasized as being the nature and substance of administration.

6347 The Superintendency. (3-0) The basic issues of problems confronting the superintendent, such as school buildings: planning, contracting, financing, equipping; fiscal and business management; taxation; budgeting, accounting; administering special services; transportation, food services, custodial services; management of personnel.

6348 Public School Laws. (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.
6350 Administrative Educational Design—A Systems Approach. (3-0) An advanced course to assist the educator in assembling school components into logical order. Emphasis will be on total system improvement, based upon continuing assessment and analysis. Balance and inter-relationship of all school district components will be structured into functional systems by each student.

6353 Adult and Continuing Education. (3-0) Organization of adult basic education, GED, community service, and other programs designed to assess and meet the needs of out-of-school youth and adults. Special consideration to curriculum, scheduling, financing, and evaluation of programs.

6354 Community Education Administration. (3-0) Organization and administration of Community Education programs in public schools. Includes initiation of the process, program development, financing, evaluation, and the role of the Community Education administrator.

6355 Teaching Strategies in Adult Education. (3-0) Study of teaching strategies and learning styles of the adult student. Includes determining adult performance levels, learning activities for adults and evaluating adult performance. Emphasis will be on teaching Adult Basic Education (ABE), and Graduate Education Development (GED).

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: (B) Administration, (H) Supervision.

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

6647 Studies in the Humanities and Sciences. (6-0) An interdisciplinary approach to furnish administrative candidates with greater depth in the social sciences, humanities, and science. Although offered under the auspices of the Department of Education, the course is taught by a team of two or more members from the arts and sciences, supplemented by visiting lecturers. The aim is to give insight on man and his world, dealing with such sub-topics as Man in a Scientific Age, Man and Society, Man and Communication Media.
Department of Health and Physical Education

Graduate Faculty

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

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

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

**Keck, Theodore Frederick**, Professor of Health and Physical Education, and Chairman of the Department of Health and Physical Education. B.S., Minot State College; M.S., Ph.D., University of Oregon.

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

**Scott, Charlotte Robinson**, Associate Professor of Health and Physical Education. B.S., M.A., Ph.D. Texas Woman's University.

**Smith, Jean Amelia**, Professor of Health and Physical Education. B.S., M.S., McMurry College; D.P.E., Indiana University.

Degree Programs

The mission of the graduate program in the Department of Health and Physical Education 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 Physical Education and Health Education. The Master of Education in Physical Education, the Master of Education in Health Education, and the Master of Education in Health and Physical 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 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, the variety of activities for teaching specialties of assistant instructors is extensive.

**Financial Aids Program:** Assistantships are available to students who have expertise in a wide range of activities. Applications should be directed to Chairman, Health and Physical Education Department.
Courses Offered

**Physical Education**

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.

*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 in Physical Education. (3-0) Directed reading, reports and discussions of the current literature in the field of physical 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 in Physical Education. (3-0) May be taken by a student who desires to work on a research problem. He/she gathers pertinent data and submits a report on the results of his/her 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 obtained; 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.

5360 Administrative Problems in Physical Education. (3-0) Problems of organization and administration of the program of 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.

*May be repeated once for additional credit at discretion of the Chairman of the Department.
5370 Outdoor Education. (3-0) Introduction to outdoor education—its relation to the curriculum and the nature of experience-centered learning in the out-of-doors.

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, back-packing 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.

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.

5399 or 5699 Thesis.
Prerequisite: Successful completion of Physical Education 5346.

Health Education

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.

*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.

5340 Human Ecology. (3-0) This course deals with biological relations between man, other living organisms and their environment. It is 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 chairman.
Prerequisite: Health Education 5346.

5399 or 5699 Thesis.
Prerequisite: Successful completion of Health Education 5346.

*May be repeated once with different emphasis for additional credit.
Department of Industrial Arts

Graduate Faculty

**Ballard, John Roger**, Professor of Industrial Arts. B.S., M.A., Southwest Texas State University; Ed.D., Texas A & M University.

**Deck, William Luther**, Professor of Industrial Arts. B.S., M.A., Southwest Texas State University; Ph.D., Ohio State University.

**Walker, Joe Wayne**, Associate Professor of Industrial Arts. B.S., M.Ed., Ed.D., North Texas State University.

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

Degree Programs

The Department of Industrial Arts offers the degrees of Master of Arts and Master of Education. The Master of Arts consists of at least 30 hours, with a major of 18-24 hours including a thesis, and a minor of 6-12 hours. The Master of Education consists of at least 36 hours, with a major of 21 hours without a thesis, and a minor of 15 hours.

Courses Offered

*5381 Industrial Methods and Production Technique.* (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 Technical Problems in Industrial Arts.* (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 upon 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 economic aspects of modern industries. Individual and group studies will be made. Results will be submitted in a form suitable for publication.

*5387 Planning Advanced Industrial Arts Laboratories.* (3-0) Studies in depth 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.

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*May be repeated for additional credit with permission of the Chairman of the Department.*
5388 New Developments in Industrial Arts. (3-0) Study of 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 to publication.

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.

5396 Technology for Teachers of Elementary Grades. (3-2) Experiences in the use of materials, tools, and projects adapted to the activity center of the elementary classroom.

5399 or 5699 Thesis.

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 in this course.

*May be repeated for additional credit with permission of the Chairman of the Department.
Department of Psychology

Graduate Faculty

Hardesty, Walton Duane, Associate Professor of Psychology. B.S., M.S., Texas A & M University; Ed.D., The University of Houston.

Merryman, Sandra Stroud, Associate Professor of Psychology. B.A., George Peabody College of Teachers; Ph.D., Indiana University.

Oles, Henry John, Professor of Psychology. B.A., Youngstown State University; M.A., Ph.D., University of Pittsburgh.

Sikes, Joseph Neville, Associate Professor of Psychology. B.A., Carleton College; Ph.D., The University of Texas at Austin.

Stimmel, David Theron, Professor of Psychology. B.A., M.A., Southern Methodist University; Ph.D., University of Michigan.

Wheeler, Richard Wade, Associate Professor of Psychology and Chairman of the Department of Psychology. B.S., M.A., Ph.D., The University of Houston.

Wright, Loyd Stanley, Associate Professor of Psychology and Special Education. B.S., The University of Houston; M.A., The University of Texas at Austin; Ed.D., University of Illinois.

Degree Programs

The Department of Psychology does not presently offer a major. A large number of graduate programs include a Psychology minor or a split minor of Psychology and Sociology.

Courses Offered

5315 Mental Hygiene. (3-0) Personality theory and development, principles governing the development of human behavior; emphasis upon the various current theories of personality structure, experiences with the family, neighborhood, and school which are common to all individuals; especially designed for those majoring in counseling or in an area of special education.

5317 Group Processes and Interpersonal Dynamics. (3-0) Designed to train future professionals in both the cognitive and personal issues related to group behavior.

5319 Techniques and Dynamics of Interviewing. (3-0) The principles and techniques of interviewing. Emphasis will be placed upon skills relative to the professional career aspirations of the student.

5320 Advanced Statistics. (3-0) A 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 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.

5331 The Emotional Problems of Childhood. (3-0) Social and biological factors that produce emotional disturbances in children. Special emphasis will be placed upon emotional factors bearing most directly upon adjustment in school.

5332 The Appraisal and Modification of Emotional Disturbances in Children. (3-0) Techniques of assessing types and extent of emotional disturbances. Emphasis will be placed upon procedures for modifying behavior so as to aid the child's adjustment to the school situation.

*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 upon invitation of the department.

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 Education 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 Education 5376.

Prerequisite: Advanced education, psychology, anthropology, or sociology, including child development or child psychology, and consent of the instructor.

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

Prerequisite: Psychological Assessment I, or its equivalent, graduate standing, and consent of the instructor.

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 communication, 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.

*May be repeated once for credit if topic differs.
The following are offered also as courses in Education. See the listings in the Education section for the respective course descriptions:

5313 Human Growth and Development I. (3-0)
5314 Human Growth and Development II. (3-0)
5354 Counseling Techniques. (3-0)
5357 Individual Testing. (3-2)

The following course is offered also in the Department of Special Education. See the listing in the Special Education section for the description.

5364 Psychological Problems of the Mentally Retarded. (3-0)
Department of Special Education

Graduate Faculty

Brooks, Alta Rae, Associate Professor of Special Education. B.A., M.A., University of Kansas; Ph.D., University of Wisconsin.

Dolezal, Charles Henry, Associate Professor of Special Education, and Chairman of the Department of Special Education. B.S., M.Ed., Ph.D., The University of Texas at Austin.

Dominguez, Olga Acevedo, Associate Professor of Special Education. B.A., Texas A & I University; M.Ed., Southwest Texas State University.

Lewis, Sylvia Lane, Assistant Professor of Special Education. B.S., State University at Buffalo; M.A., Ph.D., University of Michigan.

Ward, Doyle Glynn, Professor of Special Education. B.A., Harding College; M.A., University of Illinois; Ph.D., University of Missouri.

Degree Programs

The Department of Special Education offers a master's degree with a major in speech pathology and audiology and programs leading to certification in educational diagnostics, emotional disturbance, or language/learning disabilities.

SWT maintains interagency relationships for supervised practicums of graduate students at the University of Texas Medical School at San Antonio, Baptist Medical Center in San Antonio, San Antonio Rehabilitation Center, and Texas Rehabilitation Hospital in Gonzales.

The training program is clinically oriented. Research is encouraged in all clinical areas. The university's speech, hearing, and language clinic operates on a twelve-month basis, and is well known throughout the state and nation as a treatment center for communication disorders. It is fully accredited by the Professional Services Board of the American Boards of Examiners of Speech Pathology and Audiology of the American Speech and Hearing Association. Graduate students in speech and language pathology utilize the clinic for research in the behavioral sciences. Interaction between physicians, parents, families, classroom teachers, clinicians and clients is maintained at all times.

The graduate training program is fully accredited by the Education Training Board of the ABESPA of ASHA. Prerequisite for graduate study in speech pathology is at least 24 semester hours of undergraduate background in speech pathology and audiology.

If preprofessional training is sufficient, the Master of Arts degree may be obtained with 30 semester hours including a thesis, or the Master of Education degree with 36 semester hours and no thesis. The non-thesis program is usually selected to ensure academic and practicum requirements for clinical competence.
Courses Offered

5301 Seminar in Speech Pathology. (3-0) Discussions of various areas of speech pathology with adaptation to individual needs and emphasis upon pilot studies.

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.

5330 Language/Learning Disabilities. (3-0) Introductory course in the area of Language/Learning Disabilities for the graduate student. Language and learning models studied. Special emphasis given to the concept of developmental dyslexia.

5331 Seminar in Stuttering. (3-0) Course emphasizes description of characteristics of stuttering at various stages of the disorder, and theories and research in areas of etiology and management. Lecture and independent student review of literature.

5332 Cleft Palate and Voice Disorders. (3-0) Course deals with the anatomy and physiology of cleft palate and appropriate management techniques as well as with the characteristics and management techniques for other types of voice disorders.

5333 Language and Articulation Disorders in Children. (3-0) Normal development of speech and language contrasted with atypical development resulting in various types of articulation and language disorders. Articulation discussed as a phonological component of language.

5334 Diagnostic and Prescriptive Procedures for Disorders in Language/Learning and/or Behavior. (3-0) Procedures for evaluating and prescribing treatment for school children perceived as presenting problems in language/learning and/or behavior. Special emphasis placed upon developing sensitivity in observation of such children.

5335 Recognition and Informal Assessment of Special Education Problems in Early Childhood. (3-0) Designed for teachers and other personnel in Early Childhood Education. Prepares the student to recognize and make informal assessment of significant deviations in the areas of motor, cognitive, perceptual, sensory, communicative, and emotional development of the preschool child.

5336 Cerebral Palsy and Other Neuromotor Disabilities. (3-0) Covers the major clinical syndromes, such as Cerebral Palsy, which result from neurological damage or malfunctions. Specifically recommended for students of speech pathology and hearing therapy who have not had a course in neurological bases of communication at the undergraduate level.

5342 Aphasia and Related Disorders. (3-3) A study of language disabilities in children and adults.

5343 Advanced Clinical Practice. (3-0) For graduate students doing supervised clinical practice in the various areas of special education as indicated by section code (n), (e), (f), (g), (m), (o), and (p) as described under Special Education 5389. Supervised clock hours may be obtained with cases which stimulate an advanced level of specialized study. Special emphasis upon evaluative procedures.

5359 Phonetics of American English. (3-0) Course in phonology of the English language for the graduate student who has not had a previous course in English phonetics. The phonemes and the intonation and stress patterns of American English and its dialects will be studied.

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.
5362 **Readings in Special Education.** (3-0) Critical and thorough investigation of the literature in an area of (n) Audiology, (e) Mental Retardation, (f) Physically Handicapped or Minimally Brain Injured, (g) Speech and Hearing Therapy, (m) Language/Learning Disabilities, (o) Emotionally Disturbed or (p) Educational Diagnostician; reported in a formal paper and discussed in seminar meetings with the appropriate instructor. Required of all graduate majors in areas of special education who are candidates for the Master of Education degree.

5363 **Differential Diagnosis of Communication Problems.** (3-0) Course in the nature and causes of communicative problems designed especially for educational diagnosticians, teachers of language/learning disabilities, and speech pathologists who need experience in identifying, evaluating or prescribing therapy for persons with communication disorders.

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 upon disorders deriving from neurological impairment; general principles for education pupils with such impairments in public schools. Visiting lecturers from medical and para-medical fields will assist in teaching this course.

5366 **Methods and Materials for Teaching Pupils With Specific Language Disabilities.** (3-0) Methods and materials for teaching elementary classroom subject matter such as reading, spelling, and arithmetic to pupils with physical handicaps. Special emphasis upon teaching the child with cerebral palsy and related disorders.

5371 **The Exceptional Child in the Family.** (3-0) Develops understanding and professional skill of special education teachers and clinicians in counseling parents of exceptional children. Parents of children enrolled in demonstration classes or in the clinic actively participate in the class.

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.

5389 **Internship Practicum.** (3-0) Laboratory and clinical teaching experiences in the areas of special education. When scheduled out of town, a special fee is charged; see the fee section of this catalog. The area will be indicated according to the following with the appropriate letter to be used as a section code: (n) Audiology, (e) Mental Retardation, (g) Speech and Hearing Therapy, (m) Language/Learning Disabilities, (o) Emotionally Disturbed, (p) Educational Diagnostician.

5399 or 5699 **Thesis.**
School of Health Professions

Department of Allied Health Sciences

Graduate Faculty

Bell, Deanne French, Associate Professor of Allied Health Sciences. B.S., M.S., Ph.D., The University of Texas.

Green, Don C., Professor of Health Administration, 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, Assistant Professor of Allied Health Sciences. B.S., East Texas State University, M.S., Ph.D., Texas A & M University.

Knox, Elizabeth Singletary, Assistant Professor of Allied Health Sciences. B.S., M.A., Texas Woman’s University.

Mooney, Robert Thurston, Assistant Professor of Allied Health Sciences, and Chairman of the Department of Allied Health Sciences. B.S., M.Ed., Texas A & M University.

Upchurch, Marian Lee, Assistant Professor of Allied Health Sciences. B.S., Northwestern University; M.P.H., University of North Carolina; D.P.H., The University of Texas School of Public Health.

Welborn, Ruth B. J., Assistant Professor of Allied Health Sciences. B.S.N., University of Texas School of Nursing, M.A., The University of Texas.

Degree Programs

The Department of Allied Health Sciences offers the degree of Master of Science in Health Professions with specializations in Allied Health Education and in Allied Health Research. Generally the major consists of 23 hours, with a minor of 15 hours or a split minor of 9 hours and 6 hours. There is no thesis requirement, but there is a required internship.

The program is designed to present a logical association of related concepts and operational principles. Its structure allows expansion of the student’s educational background while permitting him/her to remain an integral part of the total health care workforce. Its format raises the level of knowledge to meet the employer’s expectations while constantly satisfying the public’s demand for increased health care services.
The keystone of the program rests in the non-traditional approach of out-reach education, i.e., offering educational opportunities in locations of increasing health care demands. These opportunities are designed to be presented at times (late afternoon, evenings, weekends) specifically chosen to avoid conflict with the student's employment.

Courses Offered

*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 health care industry. Special emphasis will be placed on the topic’s current relevance and its utilitarian value to the participant.

*5211 Problems in Allied 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 health care industry. Special emphasis will be placed on the topic’s current relevance and its utilitarian value to the participant.

5311 Research Methods in Allied Health Sciences. (3-0) A practical methods course in which the student will investigate the sources of library research data available in his/her own immediate area. The various techniques of original research will be explored and the student will be required to complete a research paper, with graduate level quality which will include library and original research work.

5312 Curriculum Development in Allied Health. (3-0) Development of a program of studies and curriculum. Students will receive practice in the planning, development, evaluation, and implementation of a specific health service related program.

Prerequisite: Allied Health Science 4330, or approval of the Department Chairman.

5313 Techniques of Instructional Development and Evaluation. (3-0) Use of observational techniques in the analysis of instruction in health service institutions. Emphasis will be placed upon methods of development and improvement of instructional skills among health service staff and the subsequent systematic observation and analysis of instruction.

5320 Educational Administration in Allied Health. (3-0) Organization and administration of professional staffs, positions and relationships within the allied health environment. Special emphasis will be placed on duties of the department director/chairman; 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.

5331 Creative Application of Technology to Instruction in Allied Health. (3-0) A course designed to promote the creative and innovative application of software and hardware technology to instruction in the allied health sciences.

5333 Community and Patient Health Education. (3-0) This course is designed to assist the health care specialist to develop formalized community and patient health educational programs. Emphasis will be placed on the design of general community health, educational materials, and individualized health educational programs featuring specific health care problems.

*May be repeated if topic differs.
5343 Training Needs Analysis. (3-0) The course will take the health care educator through a step by step process of determining and analyzing learning needs in a health care institution. Various approaches will be explored to determine the number and kinds of learning needs in an individual institution. Once discovered, the learning needs will then be translated into learning objectives.

**5361 Trends and Issues in Allied Health Education. (3-0) A course designed to acquaint the student with the social and technological trends and issues that affect Allied Health Education. Different areas of concentration will be selected.

5440 Practicum Internship A. (8-0) Practical experience in development of curriculum units to meet actual needs of the allied health sciences. Emphasis will be placed upon needs assessment, objective identification, content planning and evaluation. Additional emphasis will be placed upon the direction of curriculum development projects.

Prerequisite: Allied Health Sciences 5312 and approval of Department Chairman or adviser.

5441 Practicum Internship B. (8-0) Practical field experience in instruction to meet the needs of the allied health sciences. Emphasis will be placed upon the choice of instructional skills and methods to meet the needs of student population and content. Additional emphasis will be placed upon the direction and evaluation of instruction in field settings.

Prerequisite: Allied Health Sciences 5440.

*Course may be repeated with approval of Department Chairman
Department of Health Administration

Graduate Faculty

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

Conley, Francis Albert, Assistant Professor of Health Administration. B.A., The University of Texas at Austin; D.D.S., Baylor University; M.S.H.P., Southwest Texas State University.

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

Rappaport, Bernard, Associate Professor of Health Administration. B.A., New York University; M.A., George Washington University; M.H.A., Baylor University, FACHA.

Stewart, James Carl, Jr., Assistant Professor of Health Administration. B.A., Texas A & I University; M.S., North Texas State University; Ph.D., University of Oklahoma.

Winfield, Darwin Eugene, Assistant Professor of Health Administration. B.S., Louisiana Polytechnic Institute; M.S., Northwestern University.
Degree Programs

Graduate students who desire a concentrated study in Health Care Management may study a selection of specialized courses offered by the Department of Health Administration. Health Care Management is offered as a specialization within the Master of Science in Health Professions degree. The major requires a minimum of 23 hours. An additional 15 hours is required and may be taken as a single minor or as a split minor of 9 hours and 6 hours. Up to 9 hours of support courses from an appropriate resource area may be counted. The minor and any resource courses taken for degree credit must have the approval of the graduate adviser of the department offering the minor or resource course(s).

The Department of Health Administration offers courses designed to enhance the career mobility of persons in the health care profession and to provide a solid base of academic and directed experiences for persons who may desire entry into the field of Health Administration.

Principal areas of study include Hospital and Health Service Finance, Problems and Seminars in Health Administration, Personnel and Labor Relations in Health Services, Problems of Law in Health Services, Planning for Health Services, and other areas of study that may be deemed appropriate to the industry and the times.

The hospital provides the setting for many classroom studies and directed experiences.
Courses Offered

*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 health care 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 health care industry. Special emphasis will be placed on the topic's relevance and its utilitarian value to the participant.

**5310 Seminar in Health Administration. (3-0) Current trends and problems in health administration. Designed to place emphasis in selected areas such as administration, finance and organization. A research paper and presentation is required of each student.

5314 Financial Management of Health Institutions and Systems. (3-0) A study of the financial operation of health care institutions and systems to include financial forecasting, management control systems, budgeting and financing.

Prerequisite: Health Administration 4375. (An introduction to accounting course may possibly meet this requirement.)

5315 Health Care Management. (3-0) This course is designed specifically to improve the effectiveness of the technically oriented health care professional who desires to move into a management or supervisory position in a health care facility. This course deals with the essentials of managing human resources in the environment in which the health care professional will work. Specifically, the course will deal with human leadership, motivation, decision making, manager-employee relationships, problem solving and other subjects and specific methods and techniques for achieving meaningful and productive relationships with subordinates in the health care environment.

5317 Medical Jurisprudence. (3-0) A review of legal responsibilities of the health care professional, the legal controls imposed upon the professional and the institution. There will be a review of legal consents, patient's rights, and a broad range of the legal pitfalls that must be understood by all health care professionals and are of extreme importance to the health care supervisor.

5318 Personnel Administration and Labor Relations in Health Care Facilities. (3-0) This course will present a study of personnel management in the health care facility and the atmosphere in which it functions. The health care facility will be surveyed as a system of human behavior. There will be a study of the supervisor role in interviewing, hiring, training, evaluating, promoting, and terminating of employees.

Legislation affecting personnel in hospitals, nursing homes, and other health care facilities will be studied. A review of labor relations including collective bargaining and the activities of organized labor will be included in this course.

5330 Economics of Health-Care Delivery Systems. (3-0) The course will focus on the role and influences of consumers and providers as they affect the costs of supplying health services. Sources of financing health services, public policies influencing availability, and financing of health services will be studied.

*May be repeated if topic differs

**May be repeated if area differs
5340 Inter-Personal Relations in Health Care. (3-0) This course will focus on the development of attitudes and interpersonal perceptual skills essential to effective performance in any health care institution. The primary objective will be to increase the health care supervisor's and educator's sensitivity to the individual psychological needs of patients, their families, and employees. Upon completion of the course, the health care supervisor and/or educator should be able to instruct their own employees in the employee-patient relationship.

5345 Health Planning: Methods and Practice. (3-0) Study of planning theories and principles and their application to comprehensive health planning; systems development for regional health care. Analysis of the social, education, economic and political factors which influence health planning. Review of national and state legislation for health planning and the problems of implementation of local, regional, and national levels.

5440 Practicum Internship A. (8-0) The first half of a graduate practicum for students who are technically trained at the baccalaureate level. Students with a specialization in management will participate in a health service facility based practicum.
Prerequisite: Completion of 15 hours from degree plan.

5441 Practicum Internship B. (8-0) The second half of the graduate practicum. The student is allowed more participation during this practicum period to develop managerial skills.
Prerequisite: Health Administration 5440.
The Therese Kayser Lindsey Chair of Literature

The immediate past chairman of Southwest Texas State University’s Department of English, Dr. Robert W. Walts, looks on as Chairman Martha Luan Brunson adjusts a picture of Mrs. Therese Kayser Lindsey, SWT alumna, in the Lyndon Baines Johnson Alumni House.

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 (inset, above). A noted Texas poet and arts patron, Mrs. Lindsey attended Southwest Texas State Normal in the early 1900’s. Mrs. Lindsey published four volumes of poetry and is credited with being instrumental in organizing the Poetry Society of Texas.

Right: Dr. Arlin (Henry) Turner, Therese Kayser Lindsey Professor of English.
School of Liberal Arts
Department of English

Graduate Faculty

Alexander, Judith Caldwell, Assistant Professor of English. B.A., The University of Texas at Arlington; M.A., North Texas State University; Ph.D., University of Arizona.

Bartsch, Friedemann Karl, Assistant Professor of English. A.B., The University of Rochester; A.M., Ph.D., Indiana University.

Brunson, Martha Luan, Professor of English, and Chairperson of the Department of English. B.S., Northwestern University; M.A., Ph.D., Texas Tech University.

Gravitt, Garland Jack, Associate Professor of English. B.A., Baylor University; M.A., Southwest Texas State University; Ph.D., Southern Illinois University.

Grayson, Nancy Jane, Associate Professor of English. B.A., Texas Christian University; M.A., Ph.D., The University of Texas at Austin.

Gross, Dalton Harvey, Professor of English. B.A., Luther College; M.A., Ph.D., Southern Illinois University.

Haney, Lois May, Assistant Professor of English, and Supervisor of Student Teaching. B.A., Southwestern University; M.A., Southwest Texas State University.

Hayes, Elizabeth Gentry, Professor of English. A.B., San Jose State College; M.A., Ph.D., Stanford University.

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

Hill, John Stanley, Professor of English, and Dean of the Graduate School. B.S., M.A., University of Kansas; Ph.D., University of Wisconsin.

Houston, Ralph Hubert, Distinguished Professor of English, Emeritus. B.A., North Texas State University; M.A., Ph.D., The University of Texas at Austin.

Huffaker, Robert Selwyn, Assistant Professor of English. B.A., Texas A&M University; M.A., Ph.D., North Texas State University.

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

Lynch, Vernon Eugene, Professor of English. B.A., Sam Houston State University; M.A., Ph.D., The University of Texas at Austin.

Meathenia, Jack Charles, Associate Professor of English. B.S., M.A., West Texas State University; Ph.D., Duke University.
Medford, Floyd Chester, Assistant Professor of English. B.A., Abilene Christian College; B.D., The University of the South; Th.D., The School of Theology at Claremont, California; Ph.D., The University of Texas at Austin.

Parkin-Speer, Diane, Associate 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., The University of Texas at Austin; Ph.D., University of Iowa.

Ronan, Clifford John, Associate Professor of English. B.A., Amherst College; M.A., Ph.D., University of California at Berkeley.

Rosenbalm, John Olmsted, Associate Professor of English. B.A., M.A., Ph.D., North Texas State University.

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

Stevens, David Ranald, Professor of English. B.A., M.A., Ph.D., The University of Texas at Austin.

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

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

Turner, (Henry) Arlin, The Therese Kayser Lindsey Professor of English. B.A., West Texas State College; M.A., Ph.D., The University of Texas at Austin.

Watts, Robert Warren, Professor of English. A.B., Newark College of Rutgers University; A.M., Ph.D., College for Men, Rutgers University.

Degree Programs

Majors: The Department of English offers two graduate degrees for majors: (1) the Master of Arts degree requiring earned credits for a minimum of 30 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, the student may structure several acceptable patterns of work under each degree plan. The Master of Education degree serves especially well 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. Inquiries on this point should be addressed to Dr. Norman Peterson.

The Department of English participates in the Master of Interdisciplinary Studies degree programs, particularly in the linguistics and effective communications courses. Persons interested in this program should consult Dr. Alex Stedman.
Minors: Candidates for the Master of Education in English who elect to take a split minor may take a nine-hour English/Secondary Education pedagogical minor comprised of Education 5324, Teaching Reading in Secondary School and 6 hours of English courses selected from English 5300, 5310, 5383, 5384, 5387. Students whose major study interests are in fields other than English are encouraged to consult with the English Graduate Adviser, Dr. David Stevens, about selecting courses for a minor in English to lend special support to the major field of study.

Financial Aids Program: Graduate students in English may apply to the Department for appointment as either Assistant Instructors (T.A.'s) or Instructional Assistants. Those appointed to either type of teaching devote half time to teaching duties and half time to graduate studies. Inquiries and applications should be directed to Dr. Martha L. Brunson, Chairperson of the Department of English. Normally, applications should be filed by March 1 for appointments in the fall.

Courses Offered

†5300 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.

*5310 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.

†*5318, †*5319 Effective Communications. (3-0)

†*5321 Contemporary Fiction. (3-0)

**5323 Eminent Lives in Literature. (3-0) A study of selected works in autobiography and biography with special attention to the art forms used in these works.

**5325 Reflections of Life in the Lore and Literature of the Southwest. (3-0)

*5331 Studies in American Poetry. (3-0)

*5332 Studies in American Prose. (3-0)

**5351 Chaucer and His Time. (3-0)

*5353 Studies in Medieval English Literature. (3-0)

*5354 Studies in English Renaissance Literature. (3-0)

**5355 Shakespeare. (3-0)

**5358 Milton. (3-0)

*5359 Studies in Eighteenth Century Literature. (3-0)

*5364 Studies in the English Romantic Movement. (3-0)

*5366 Studies in Victorian Poetry. (3-0)

†May not count as credit toward meeting minimum requirements for the Master of Arts in English without permission of the Chairman of the Department of English.

*May be repeated once with different emphasis for additional credit.

**May not be taken for graduate credit if the undergraduate companion course (4000 level) has been completed.
*5368 Studies in Victorian Prose. (3-0)
*5371 Studies in British Poetry: 1880-1940. (3-0)
*5381 Studies in Modern British and American Drama: 1900-Present. (3-0)
†*5383 Teaching English Composition in Middle and Secondary Schools and Community Colleges. (3-0)
†5384 Literary Analysis for Middle and Secondary School and Community College Teachers. (3-0)
†5387 Concepts, Materials, and Methods of Teaching English. (3-0)
†5388 Studies in Literature for Children or Adolescents. (3-0)
*5395 Problems in Language and Literature. Open to graduate students on an individual basis by arrangement with the department.

5399 or 5699 Thesis.

†May not count as credit toward meeting minimum requirements for the Master of Arts in English without permission of the Chairman of the Department of English.
*May be repeated once with different emphasis for additional credit.

A geography and planning student is learning to use a stereo plotter for mapmaking, one of the many professional skills taught in his department.
Department of Geography and Planning

Graduate Faculty

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

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

**Heilman, Allen David**, Professor of Geography. B.A., Michigan State University; M.A., Ph.D., The University of Michigan.

**Larsen, Robert Douglas**, Associate Professor of Geography. B.S., University of Wisconsin at Superior; M.S., Ph.D., University of Wisconsin at Madison.

Degree Programs

The Department of Geography and Planning does not offer a formal graduate major or minor. However, graduate courses may be used to support graduate programs in a variety of other disciplines.

Courses Offered

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.

*5335 Directed Research.* Individual or group research projects at the advanced level that are not offered in the present curriculum. Permission and project approval must be obtained from the Department Chairman prior to registration.

5350 **Solid Waste Disposal Planning and Management.** (3-0) A survey of the methods of solid waste disposal including waste storage, collection, transportation and disposal, and their short and long range effect on the environment. A practical course in the planning, implementation, and management of alternate methods of sanitary waste disposal.

5360 **Seminar in Planning Problems.** (3-0) A critical and in-depth examination of several of the problem areas currently facing the planner.

*May be repeated once at discretion of the Chairman of the Department.*
Department of History

Graduate Faculty

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

Brunson, Billy Ray, Professor of History. B.A., M.A., Ph.D., Texas Tech University. (Diplomatic)

Craddock, Emmie, Professor of History, and Director of the Honors Program. B.A., Rice University; M.A., Ph.D., The University of Texas at Austin. (Social and Intellectual)

Dunn, Dennis John, Associate Professor of History. B.A., M.A., John Carroll University; Ph.D., Kent State University. (Russia; East Europe)

Jager, Ronald Burke, Professor of History. A.B., M.A., Baylor University; Ph.D., The University of Texas at Austin. (Constitutional; Urban)

Josserand, Frank Butler, Professor of History. A.B., M.A., Baylor University; Ph.D., The University of Texas at Austin. (Modern Europe; Germany)

Kissler, Betty Jane, Professor of History, and Supervisor of Student Teaching. B.A., University of Colorado; M.A., Colorado State College; Ph.D., The 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)

Pohl, James William, Professor of History. B.A., M.A., North Texas State University; Ph.D., The University of Texas at Austin. (Military)

Pool, William Clayton, Professor of History. B.A., M.A., Ph.D., The University of Texas at Austin. (Texas; Frontier)

Swinney, Everette, Professor of History, and Chairman of the Department of History. B.A., Ohio Northern University; M.A., Pennsylvania State University; Ph.D., The University of Texas at Austin. (Civil War and Reconstruction; Historiography)

Wilson, James Arthur, Professor of History. B.A., M.A., Ph.D., University of Arizona. (American Southwest)

Degree Programs

The Department of History offers the Master of Arts degree and the Master of Education degree. Normally, the Mater of Arts consists of 24 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.
**Admissions Policy.** Unconditional admission to departmental programs is based on a 3.0 or higher 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. Conditional admission may be available for students with grade point averages below 2.5 in history who are not normally admissible to departmental programs.

**Purpose.** 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, 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.

**Financial Aids Program.** 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 Chairman or the Graduate Adviser in the Department of History or write and request the bulletin, *Graduate Study in History*.

**Courses Offered**

**5310 Problems in Modern European History.** (3-0) A seminar based upon selected topics in the history of Europe since 1870.

**5313 Problems in Early American History: The Age of the American Revolution.** (3-0) A seminar based upon 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 upon selected topics in political, social, intellectual and economic history of England from 1688 to 1815.

**5321 Seminar in the 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 Seminar in 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; the 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 Problems in the Social and Intellectual History of the United States. (3-0) A seminar based upon selected topics in the intellectual and social history of the United States.

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

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

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

5350 Problems of the Frontier in American History. (3-0) A seminar based upon selected topics in the history of the frontier in American development.

5351 Problems in Modern American History. (3-0) A seminar based upon selected topics in United States history since 1877.

5353 Problems in Greater Southwestern History. (3-0) A seminar based upon selected topics in the history of the Greater American Southwest.

5357 The Gilded Age. (3-0) A seminar based upon 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 upon selected topics in the military history of the United States.

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

5367 Problems in the 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 upon selected topics in post-Civil War American history.

5370 Minority Groups in American History. (3-0) A seminar based upon selected topics in the history of the various ethnic and racial groups within American society.

5390 Problems in Historical Research. (3-0) This course is open to graduate students on an individual basis by arrangement with the department.

5399 or 5699 Thesis.
Department of Modern Languages

Graduate Faculty

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

Carlisle, Charles Richard, Associate Professor of Spanish, and Chairman of the Department of Modern Languages. B.A., M.A., Ph.D., The University of Arizona.

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

Davis, Richard Lee, Associate Professor of Spanish. B.A., M.A., Ph.D., The University of Texas at Austin.

Fischer, Robert Allen, Assistant Professor of French. B.A., M.A., University of Cincinnati; Ph.D., Pennsylvania State University.

Galvan, Robert Arispe, Professor of Spanish. B.A., Trinity University; M.A., The 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.

Kremkus, Manfred, Assistant Professor of German. A.B., A.M., Ph.D., University of Michigan.

McCoy, Ingeborg Ruberg, Associate Professor of Spanish. A.A., San Antonio College; B.A., Southwest Texas State University; M.A., Ph.D., The University of Texas at Austin.

Reeves, Dona Rae, Professor of German. B.A., M.A., Ph.D., The University of Texas at Austin.

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

Degree Programs

The Master of Arts in Teaching is designed specifically to meet the needs of foreign language teachers at the secondary and community college levels. It differs significantly from the traditional M.A. 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 M.A.T. degree entails 15 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 program is specifically oriented toward language teaching; it emphasizes practice as well as theory, and the application of knowledge as well as research.

The Master of Arts degree 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

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 Media and Testing. (3-0) 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.

French


*5305 Studies in Literary Genres. (3-0) A study of the development of the French novel, poetry, correspondence, and essay.

*5306 Studies in Early French Culture and Thought. (3-0) Various cultural themes in the works of representative scholars, writers, and artists. a) From the Beginnings through the Renaissance; b) From the seventeenth century through the eighteenth century. Individualized readings and reports.

*5307 Studies in Modern French Culture and Thought. (3-0) Various cultural themes in the works of representative scholars, writers, artists, and in the media. a) The nineteenth century; b) The twentieth century. Individualized readings and reports.

*5309 Advanced Conversation, Composition and Grammar. (3-0) A course designed to improve oral and written skills. Topic A: Conversation: Practice based mainly on contemporary mass media materials. Topic B: Grammar and Composition: Practice in translation, stylistics and free composition.

*5390 Studies in French Culture, Language or Literature. (3-0) A course designed to offer students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. The course is generally available only to graduate students with special needs.

Prerequisite: Approval by the Chairman 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 weeks 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 French.

*May be repeated with different emphasis for additional credit.
German

*5304 Studies in the German Language. (3-0) Studies in the history and structure of modern German. Topic A.: History of German with emphasis on developments that underlie problem areas in modern German. Topic B.: Structure of modern German with attention given to problems in the teaching of German.

*5305 The Age of Revolution. (3-0) An intensive examination of the society, culture, and politics of the period, emphasizing literary works of Enlightenment, Classicism, and Romanticism, and encompassing a survey of the periods of a) Despotism and Idealism, and b) Romanticism. Collateral readings and reports.

*5306 Foundations of German Civilization. (3-0) An intensive study of the development of German culture and civilization found in extant works of the periods, encompassing a survey a) from the Beginnings to the Reformation, and b) from the Reformation to the Age of Absolutism. Collateral readings and reports.

*5307 Modern German Culture and Literature. (3-0) A comprehensive investigation of the forces that shaped modern Germany as reflected by significant works of major writers and thinkers of the periods a) From 1848 to 1918, and b) From the Weimar Republic to the Present. Collateral readings and reports.

*5309 Advanced Conversation, Composition and Grammar. (3-0) A course designed to improve oral and written skills. Topic A: Conversation: Practice based mainly on contemporary mass media materials. Topic B: Grammar and Composition: Practice in translation, stylistics and free composition.

*5390 Studies in German Culture, Language or Literature. (3-0) A course designed to offer students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. The course is generally available only to graduate students with special needs.

Prerequisite: Approval by the Chairman 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 weeks 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 German.

Spanish

*5304 Studies in the Spanish Language. (3-0) Studies in the history and structure of modern Spanish. Topic A: History of Spanish with emphasis on the developments that underlie problem areas in modern Spanish with attention given to problems in the teaching of Spanish; problems in dialects.

*5306 Studies in Spanish Peninsular Literature. (3-0) The study of 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.

*May be repeated once with different emphasis for additional credit.
*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) A course designed to improve oral and written skills. Topic A: Conversation: Practice based mainly on contemporary mass media materials. Topic B: Grammar and Composition: Practice in translation, stylistics and free composition.

*5390 Studies in Spanish Culture, Language or Literature. (3-0) A course designed to offer students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. The course is generally available only to graduate students with special needs.

Prerequisite: Approval by the Chairman of the Department.

Application must be submitted prior to the registration period each semester.

5399 or 5699 Thesis.

5600 Internship and Foreign Study. (6-0) An independent study project of at least six weeks 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 Spanish.

*May be repeated once with different emphasis for additional credit.
Department of Political Science

Graduate Faculty

Balanoff, Howard T., Assistant Professor of Political Science. B.A., City University of New York; M.U.P., D.E.D., Texas A&M University.

Bland, Randall Walton, Associate Professor of Political Science. B.A., Texas A&M University; M.A., Ph.D., University of Notre Dame.

Dutton, Maurice Gene, Assistant Professor of Political Science. B.S., M.S., Kansas State University; Ph.D., The University of Texas at Austin.

Henderson, Richard Bever, Professor of Political Science. B.A., Southwest Texas State University; M.A., Ph.D., The University of Maryland.

Hindson, Theodore, Assistant Professor of Political Science. B.A., LaSalle College, Philadelphia; M.A., Ph.D., University of Notre Dame.

Leder, Arnold, Associate Professor of Political Science. B.A., Brooklyn College; M.A., Washington University; Ph.D., Indiana University.

Macdonald, Robert John, Assistant Professor of Political Science. B.B.A., Southern Methodist University; Ph.D., The University of Texas at Austin.

McWhirter, Darien, Assistant Professor of Political Science. B.A., New College, Florida; Ph.D., Yale University.

Rice, Mitchell Forrest, Assistant Professor of Political Science. B.A., M.S., California State University at Los Angeles; Ph.D., Claremont Graduate School.

Rich, Francis Marion, Jr., Professor of Political Science. J.D., Ph.D., University of Georgia.

Shields, Patricia Mary, Assistant Professor of Political Science. B.S., University of Maryland; M.A., Ph.D., Ohio State University.

Spalding, Rose, Assistant Professor of Political Science. B.A., University of Kentucky; Ph.D., University of North Carolina, Chapel Hill.

Stouffer, Willard Brewer, Jr., Associate Professor of Political Science. B.A., Northwestern University; M.A., Miami University; Ph.D., Duke University.

Sullivan, Alfred Burke, Associate Professor of Political Science. B.A., Dartmouth College; M.A., University of Rhode Island; Ph.D., University of Utah.

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

Williams, Thomas Joseph, Associate Professor of Political Science. B.S. in Ed., M.Ed., Ph.D., University of Georgia.
Degree Programs

The Department of Political Science offers a choice of three degree programs. 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 degree of Master of Public Administration is a 39 hour program consisting of an interdisciplinary core of 30 hours including a 3 hour internship for pre-career students and 6 hours of thesis or applied research projects (non-thesis option), and a 9 hour resource field selected from Administration of Criminal Justice Systems, Administration of Allied Health Services, Government Information Systems, Human Resources Administration, Public Finance Administration, Public Personnel Administration, and Urban Planning. Admission to the Master of Public Administration program requires an undergraduate GPA of 3.0 or 2.75 on the last 60 hours of undergraduate work coupled with at least one year's service in a responsible administrative position in government.

For those baccalaureate graduates who desire to prepare for careers as paralegals or lawyers' assistants, an 18 semester hour non-degree program is offered with specialization in the areas of: Corporations; Administrative Law; Litigation; Wills, Trusts, and Estates; Real Estate and Mortgages; Family Law; and Oil and Gas Law.

With a full-time graduate faculty of sixteen and a part-time faculty of five, the student has the opportunity for a close relationship with his professors. The department sponsors a graduate faculty-student symposium which brings noted authorities to campus on a monthly schedule for informal dinner meetings with students and faculty.

The opportunity for graduate students to become involved in ongoing applied research is provided through the Community Development Institute, the service, consulting, and training arm of the department. Such ongoing activities as the preparation of 701 master plans; the development of in-house training programs; organizational development seminars, and a wide variety of applied research activities with federal, state and local governments provide graduate students with first hand experience in dealing with a wide spectrum of political, social, economic and management problems.

Research facilities include a DEC 10 with CRT terminal in the department. The university is a depository for federal and state government documents as well as a member of CORAL (Council of Research and Academic Libraries), TIE (Texas Information Exchange) and the Center for Research Libraries in Chicago. A basic governmental data bank covering local and regional governments in the central and borderlands regions of Texas is in its sixth year of operation.

Internships in federal, state, or local government are provided for pre-career MPA Students.

Courses Offered

*5301 Problems in American Foreign Relations. (3-0) A 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.

*May be repeated once with different emphasis and professor for additional credit.

**May be repeated with departmental approval.
5305 Problems in Comparative Government and Politics. (3-0) The intensive study of selected areas in comparative political institutions.


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. The course is 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 Seminar in Public Finance. (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 upon 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 relationship. 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. 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. The effect of collective bargaining agreements on personnel policy development.

5320 A,B,C. Problems in Intergovernmental Relations. (3-0) A: Federal. An in-depth study of the changing patterns of intergovernmental relations in the federal system. B: State and Local. An in-depth analysis of the relationships between state governments and their constituent governments to include inter-state relations, intrastate relations, county problems, and local affairs. C: Municipal. An in-depth analysis of political and administrative problems in the areas of urban affairs and metropolitan politics.

*May be repeated once with different emphasis and professor for additional credit.

**May be repeated with departmental approval.
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.

***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.

5331 Police Administration. (3-0) The identity of the police organization as an open system, and the analysis of current behavioral research for the purpose of discovering its appropriateness for upgrading the effectiveness and efficiency of police operations. Emphasis on bridging the gap between concepts and reality.

5332 Police Administration Decision Making. (3-0) The identity of administrative rationality, its growth and application in police operations. Emphasis is placed on the examination of the dynamics of personal values, politics, and interpersonal relations as they affect the environment of administrative decision making.

*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.

5342 Seminar in Policy Analysis and Evaluation. (3-0) Examination of several aspects of the public policy making process in the American political system, including the environment, policy formation, implementation, management and evaluation.

*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 ongoing work of a selected governmental unit. The student will be assigned to a unit of state, federal, regional or local government. A research paper dealing with the internship experience and written under the direction of a faculty member will be a course requirement. Evaluation will be based upon the research paper and work performance.

*5380 Economic and Social Problems of International Relations. (3-0) A course dealing 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. The student enrolling in this course will prepare a prospectus to include a statement of 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 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.

5399 or 5699 Thesis.

*May be repeated once with different emphasis and professor for additional credit.

***May be repeated once with different emphasis for additional credit.
Lawyer's Assistants Program

Students in the Lawyer's Assistant Program will be enrolled in 6000 level courses. A degree seeking graduate student not enrolled in this Program, but whose graduate adviser has requested inclusion of a Lawyer's Assistant Program course or courses in the student's outline of study, will be enrolled in 5000 level courses.

5190-6190 Introduction to Law. (1-0) A study of statutory and case law to familiarize the student with the nature, meaning and sources of the law in Texas; the organization of the Texas legal system; law as a business, including the economics of litigation, time costs and billing systems, legal trends; employee relationships; law office problems; and professional ethics.

5291-6291 Legal Research. (2-0) 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.

5387-6387 Practicum/Internship. (0-9) Emphasis relates directly to a specialty course selected by the student. Extensive research is assigned for preparation of a paper. The student serves a voluntary internship requiring 2 to 3 hours two afternoons a week in a law-related office.

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) A study of the Texas law regarding estates and trusts with emphasis on the preparation of documents relating to the administration of estates.

5394-6394 Litigation. (3-0) A study of the statutory and case law relative to civil and criminal procedure in order to develop an understanding of the preparation of litigation.

5395-6395 Real Estate. (3-0) A study of the Texas laws concerning real property, conveyances, recordation, taxation, and sales regarding real property. The student will become familiar with the 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.
Department of Sociology

Graduate Faculty

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

Jorgenson, David Einar, Associate Professor of Sociology. B.S., Texas Lutheran College; M.A., Texas Christian University; Ph.D., North Texas State University.

Matlock, Donald Thomas, Associate Professor of Sociology. B.S., M.S., North Texas State University; Ph.D., The University of Texas at Austin.

Newsom, Rollo Kern, Associate Professor of Sociology, and Chairman of the Department of Sociology. B.S., The University of Texas at Austin; M.S., North Texas State University; Ph.D., The 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.

Schultz, Clarence Carven, Professor of Sociology. B.A., M.A., Southwest Texas State University; Ph.D., The University of Texas at Austin.

Short, Alvin Phillip, Associate Professor of Sociology. B.S., Southwest Missouri State College; M.A., Ph.D., Emory University.

Degree Programs

The basic goal of the Master of Arts in Teaching is to enhance the instructional competencies of sociology teachers in public secondary schools and community colleges. The program is open both to those who wish to extend their undergraduate training in sociology and to those who want to acquire sociology as a first 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. Other students may combine graduate instruction in sociology with supporting work in Junior College Education to achieve competencies for junior college teaching. Students not having undergraduate sociology training in principles (introduction), theory, statistics, and research must complete undergraduate courses in each of these areas. Dependent on the extent of a student’s undergraduate training in sociology or related fields, some may be permitted to take up to 6 hours of selected graduate courses before completing these undergraduate requirements.

The basic degree requirements are 37 semester hours, including Soc. 5100, 5310, and 5380. Students who so desire may expand the sociological essay (Soc. 5380) into a regular research thesis (Soc. 5399). An evaluative examination will be required after the completion of 7 graduate hours in the program, which must include Soc. 5100. The degree may be obtained by completing:

1. 22 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. 25 hours in sociology and 12 hours in a minor either in a second teaching field or a substantive area of Education such as Junior College Education.
3. 28 hours in sociology and 9 hours of supporting work in a second teaching field or in an area of specialization in Education, such as Junior College Education, or in a major field, such as Counseling and Guidance.

Sociology may be included as a minor field or supporting area of graduate studies in various master's programs. Sociology is a required resource area for students in graduate programs in Administrative Education and Reading Education.

**Financial Aids 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 students as Assistant Instructors when positions are available.

**Courses Offered**

**5100 Pro-Seminar in Sociology.** (1-0) An examination of major characteristics and contemporary issues in sociology as a scientific discipline. The course will serve as an overview of the discipline and a preview of the demands and expectations involved in the MAT in Sociology. All graduate students majoring in sociology are required to take this course the first long term they are enrolled in the program.

**5310 Teaching Sociology.** (3-0) Objectives, methods, and materials of instruction in the sociology curriculum. Relation of sociology to other disciplines.

**5311 Selected Problems in Sociology Instruction.** (3-0) Seminar or individual study projects concerned with selected problems in the teaching of sociology.

**5316 Seminar in Deviation and Social Problems.** (3-0) A systematic analysis of contemporary social problems and various types of social deviation. Emphasis is upon the socialization process as it relates to social problems and human deviation. The sociological explanation of underlying factors will be stressed.

*May be repeated once with different emphasis for additional credit.*
5319 Seminar in Social Psychology. (3-0) A critical appraisal of the major theories and theorists found in Social Psychology with emphasis on their application to contemporary social and psychological issues.

5320 Seminar in Demography. (3-0) A seminar in the study of population with emphasis on sources of demographic data, techniques of demographic analysis, and population composition and forecasts.

5337 Seminar in the Family. (3-0) An analysis of selected topics with respect to contemporary family structure and processes.

5343 Seminar in Criminology. (3-0) An analysis of theories and research related to the crime problem with particular emphasis upon 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 structure as a prerequisite to planning and 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) This seminar examines the dynamics of dominant-subordinate social groups. There is a focus 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.

5380 Sociological Essay. (3-0) Directed study of a specific sociological topic requiring the student to apply skills and knowledge gained in course work. For those students electing to complete a thesis, the essay will constitute a thesis research proposal.

5399 Thesis. (3-0)

*May be repeated once with different emphasis for additional credit.
School of Science
Department of Biology

Graduate Faculty

Alexander, Mary Louise, Professor of Biology. B.A., M.A., Ph.D., The University of Texas at Austin. (Genetics-mutagenesis)

Aron, Gary Michael, Assistant Professor of Biology. B.S., M.S., St. John’s University; Ph.D., The Pennsylvania State University. (Microbiology, Virology)

Baccus, John Thomas, Associate Professor of Biology. B.S., M.A., Midwestern University; Ph.D., North Texas State University. (Wildlife, Community Ecology)

Benjamin, Caroline Pitcher, Assistant Professor of Biology. B.A., Harpur College; M.A., Ph.D., Indiana University. (Embryology and Developmental Biology)

Davis, William King, Associate Professor of Biology. B.S., M.A., Southwest Texas State University. (Vertebrate Natural History)

Edwards, Sidney William, Professor of Biology. B.S., M.A., George Peabody College for Teachers; Ph.D., Vanderbilt University. (Vertebrate Anatomy)

Emery, William Henry Perry, Professor of Biology. B.S., Rhode Island State College; M.S., University of Connecticut; Ph.D., The University of Texas at Austin. (Cytotaxonomy)

Fonteyn, Paul John, Assistant 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., Southwest Texas State University; M.A.T., Brown University; M.A., Southwest Texas State University; Ph.D., Oklahoma State University. (Limnology)

Horne, Francis Ray, Professor of Biology. B.S., Texas Tech University; M.S., Ph.D., The University of Wyoming. (Invertebrate Physiology and Biochemistry)

Huffman, David George, Associate Professor of Biology. A.B., West Virginia University; M.S., Marshall University; Ph.D., University of New Hampshire. (Fish Parasitology)

Koehn, Robert Dean, Associate Professor of Biology. B.S., Bethel College; M.S., Kansas State Teachers College; Ph.D., The University of Texas at Austin. (Mycology, Phycology)

Koke, Joseph Ralph, Assistant Professor of Biology. B.S., M.S., University of Oregon; Ph.D., University of Alberta. (Cell Biology, Physiology)

Longley, Glenn, Associate Professor of Biology. B.S., Southwest Texas State University; M.S., Ph.D., University of Utah. (Limnology, Pollution Biology)

Marek, Edmund Anthony, Assistant Professor of Biology. B.S., M.S. Ed., Ph.D., The University of Oklahoma. (Science Education)

Meyer, George Herbert, Associate Professor of Biology. B.S., Baylor University; M.A., The University of Texas at Austin. (Microbial Physiology)
Norris, William Elmore, Jr., Professor of Biology, and Vice President for Academic Affairs and Dean of the University. B.S., Southwest Texas State University; Ph.D., The University of Texas at Austin. (Plant and General Physiology)

Schneider, Edward Lee, Associate Professor of Biology. B.S., M.S., Central Washington State College; Ph.D., University of California at Santa Barbara. (Plant Anatomy and Morphology)

Sissom, Stanley Lewis, Professor of Biology. B.S., M.S., North Texas State University; Ph.D., Texas A & M University. (Invertebrate Zoology and Ecology)

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)

Whitenberg, David Calvin, Associate Professor of Biology. B.S., M.S., Ph.D., Texas A & M University. (Plant Physiology and Biochemistry)

Whiteside, Bobby Gene, Professor of Biology. A.S., Eastern Oklahoma A & M College; B.S., M.A., Ph.D., Oklahoma State University. (Ichthyology, Fisheries Management)

Woosley, John Thomas, Assistant Professor of Biology. B.A., M.A., University of South Florida; Ph.D., Medical College of Georgia. (Biochemical and Reproductive Endocrinology)

Young, Willard Cooper, Professor of Biology, and Chairman of the Department of Biology. B.S., M.A., The University of Texas at Austin; Ph.D., University of Colorado. (Freshwater Ecology)

Degree Programs

Graduate students in Biology may elect one of four degree options: the Master of Science with or without a thesis, the Master of Arts, and the Master of Education.

The Master of Science and Master of Arts degrees, each including a thesis, require at least 24 hours of coursework. The major and minor will consist of 15-18 hours and 9-6 hours respectively. In addition to the 24 hours a minimum of 6 hours of thesis (5399, 5699), three hours of fundamentals of research (5395), and two one-hour seminars (5110) may be required. The Master of Arts degree may include a minor from the sciences while the Master of Science degree requires that the minor must be from the sciences. The Master of Education degree generally requires the minor to be taken outside the sciences. The 36 hours non-thesis Master of Science degree is available only to those individuals having a minimum of two years of teaching experience and who intend to continue teaching as a career.

Students working toward the Master of Education degree do not take fundamentals of research (5395) nor thesis (5399, 5699). The requirement of two one-hour seminars does apply. The major and minor will consist of a minimum of 21 hours and 15 hours respectively. A split minor of 9 hours (first minor) and 6 hours (second minor) is also available though rarely taken by a Biology major.

The biology major selecting a minor in science has the following options: aquatic biology, marine biology, biochemistry, mathematics, chemistry or physics.

The minor in marine biology will require 6 hours to be taken at Moody College of Marine Biology, Galveston, Texas and/or The University of Texas Marine Institute, Port Aransas, Texas. Departmental approval must be obtained before a student begins off-campus coursework in marine biology.
Thesis problems are available in any area of special competence represented by Biology Department faculty members. In general, the following areas are available: anatomy (plant and vertebrate), aquatic biology, cytology, developmental biology, ecology, genetics, invertebrate zoology, microbiology, virology, mycology, parasitology (animal), phycology, physiology and biochemistry, science education, taxonomy (plant and animal), and wildlife management.

**Financial Aids Program:** Financial assistance through the Biology Department is available in the form of Graduate Laboratory Instructorships. Support is limited to two years. Applications for Instructorships are available from the Department Chairman and completed applications are due by March 15th to be considered for the following school year. A limited number of Research Assistantships are also available in certain areas.

**Courses Offered**

**5110 Seminar in Biology.** (1-0) A graduate student majoring in biology may be required to take a minimum of two semester hours in this course in addition to the standard requirements for the advanced degree. (F,S)

**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 or minor or secondary teaching field.** (S,SS)

**5310 Field Biology of Plants.** (2-3) 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)

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

**5313 Parasitology.** (3-3) The biology and biological significance of the common parasites of man and animals. (S)

**5315 Ichthyology.** (2-3) 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)

**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.

**5320 Field Biology of Animals.** (2-3) Environmental relationships and natural history of invertebrates and vertebrates. Emphasis is upon taxonomy, speciation and biotic provinces. The 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)

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*This course may be repeated once for credit
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5321 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)

5322 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 the methods of population analysis. (S,SS)

5323 Wildlife Management. (3-3) Applications of the 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)

5325 Biometry. (3-0) 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. (S,SS)
Prerequisite: One year of mathematics.

5330 Experimental Techniques. (2-3) 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)

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 Parasites and Diseases of Fishes. (2-3) Animal and microbial parasites of fishes. Emphasizes fisheries medicine, the diagnosis of parasitic and microbial diseases of fishes and the control of diseases through various prophylactic and therapeutic measures. Examination techniques and parasite identifications are stressed in the laboratory.
Prerequisite: Biology 4313 or 4315.

5340 Cell Physiology. (3-3) Principles of cell physiology such as colloidal systems, surface phenomena, osmotic pressure and permeability. (S)

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)
Prerequisite: 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.

5355 Developmental Biology. (2-3) The role that growth, differentiation, cellular interactions, movements, and metabolism play during embryogenesis, gametogenesis, regeneration, aging and sexual reproduction and their control of nuclear and/or cytoplasmic factors. Laboratory will emphasize experimental manipulations of sea urchin, frog and chick embryos; fern gametophytes; planaria and cellular slime molds.

*5360 Comparative Physiology. (2-3) Attention is given to the way in which different organisms perform similar functions. (F)

*This course may be repeated once for credit
5361 Biology of Water Pollution. (2-3) Biological aspects of water pollution and purification will be stressed. Attention is given to the response of aquatic communities to changes in water quality. Current pollution problems, toxicity bioassays, biological techniques and methods for monitoring pollution are considered.

Prerequisite: Biology 2360 and 4370.

5362 Environmental Impact Analysis. (3-0) Current government regulations regarding environmental impact, the content of environmental impact statements, how to proceed with an impact study, application of ecological principles to impact studies and the steps in the review process for environmental impact statements are considered.

5365 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)

5370 Limnology. (3-3) The 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,SS)

Prerequisite: Biology 2360 and Chemistry 3410, or consent of the instructor.

5380 Cytology and Microtechnique. (3-3) Microscopic and ultramicroscopic cellular structures; their origin, development and function. Typical and atypical nuclear and cellular reproduction. Various cytological techniques will be demonstrated, including histochemical methods, staining techniques, fluorescent microscopy and autoradiography. (S)

5390 or 5690 Problems in the Biological Sciences. Open to graduate students on an individual basis at any time by arrangement with the faculty member concerned; problems in the areas of systematics and environmental biology, physiology and biophysics, and cytology and genetics.

5395 Fundamentals of Research. (2-3) 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.

5399 or 5699 Thesis.

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, angiospermy, 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)

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.

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: Microbiology 3440 or consent of the instructor.
Graduate Faculty

Caputo, Joseph Anthony, Professor of Chemistry, Associate Vice President for Academic Affairs, and Dean of the School of Science. B.S., M.S., Seton Hall University; Ph.D., University of Houston. (Physical organic chemistry; synthesis of potential anti-malarial agents, reaction mechanisms, phosphorus heterocycles)

Cassidy, Patrick Edward, Associate 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., North Texas State University; Ph.D., The University of Texas at Austin. (Inorganic chemistry: determination of structure and bonding in organometallic and inorganic compounds)

Cude, Willis Augustus, Jr., Associate Professor of Chemistry. B.S., The University of Texas at Austin; M.S., Ohio State University; Ph.D., The University of Texas at Austin. (Inorganic chemistry: transition metal compound, mu-bridged dimers, crystallography)

Fitch, John William, III, Professor of Chemistry. B.S., Ph.D., The University of Texas at Austin. (Inorganic chemistry: vinylmetallics, quasi-aromatic organometallics and carbenoids)

Irvin, James Duard, Associate Professor of Chemistry. B.S., Gonzaga University; Ph.D., Montana State. (Biochemistry: protein metabolism, enzymology)

Lippmann, David Zangwill, Associate Professor of Chemistry. B.S., M.A., The 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., North Texas State; Ph.D., The University of Texas at Austin. (Physical chemistry: surface chemistry-absorption kinetics of surfactants on mineral surfaces; interfacial tension of hydrocarbon-aqueous surfactant solutions)

Willms, Charles Ronald, Professor of Chemistry. B.A., The 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, and Chairman of the Department of Chemistry. B.S., Southwest Texas State University; M.S., Ph.D., Texas A & M University. (Physical organic chemistry: solvent effects on organic reactions)
Degree 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 hours) requires a major of 21-24 hours (includes 6 hr. thesis) and a minor of 9-6 hours from within the School of Science. A 36 hour non-thesis degree is available at the discretion of the Department. Generally, an undergraduate major in chemistry is required for admission into this program.

The Master of Arts degree has the same hour requirement as the Master of Science degree with thesis but the minor may be outside the School of Science. A concentration in Biochemistry is open to those with an undergraduate minor in chemistry and a major in biology. The Master of Education degree requires 36 hours but no thesis.

Research Areas. The graduate faculty conducts research in numerous areas of the five basic fields of chemistry. Specific research areas include:

Analytical—Inorganic Qualitative Analysis
Biochemistry—enzyme isolation, enzyme mechanisms, protein and amino acid chemistry
Inorganic—Synthesis and structure of organometallic compounds, boron-nitrogen compounds, coordination chemistry
Organic—Polymer synthesis and characterization, physical organic studies, synthesis
Physical—Solution properties, X-ray crystallography, surface chemistry

Research Facilities. The department occupies the fourth floor of the Science Building. Research instruments available include NMR, UV, IR, x-ray, atomic absorption, liquid and gas chromatographs, mass spectrometer, osmometers, high-speed centrifuges, magnetic susceptibility apparatus, DEC-10 computer.

Financial Aids Program. Graduate students are encouraged to work as laboratory teaching assistants. A limited number of research assistantships are also available at pay similar to that of laboratory teaching assistants.
Courses Offered

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

**5189 Postgraduate Research. (0-3) This 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.

5262 Chemical Engineering Laboratory. (0-6) Accurate measurements of gas, fluid and heat flow are made and compared to theoretical predictions. Written reports are required.

Prerequisite: Chemistry 5352. Corequisite: Chemistry 5362.

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.

Prerequisite: Chemistry 3410, 4375 or 4385. Corequisite: Chemistry 4375 or 4385 or 5375 or 5385.

***5325 Selected Topics in Physical Chemistry. (3-0) Topics are chosen from Chemical Thermodynamics, Chemical Kinetics, Colloid Chemistry, Electrochemistry, Spectroscopy, Nuclear Chemistry, or Quantum Mechanics with the specific topics to be discussed agreed upon prior to registration.

Prerequisite: Chemistry 3340.

5336 Methods and Techniques of Physical Sciences. (2-4) This 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) This 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 4337-5337.

5345 Chemical Bonding and Structure. (3-0) A study of modern theories of chemical bonding in both organic and inorganic systems. Topics include both valence bond and molecular orbital approaches. Huckel molecular orbital theory and ligand field theory are included.

Prerequisite: Chemistry 3340.

***5350 Selected Topics in Organic Chemistry. (3-0) Topics are chosen from Mechanisms of Organic Reactions, Physical Organic, Polymer Chemistry, Petroleum Chemistry, or Heterocyclic Chemistry, with the specific topic to be discussed agreed upon prior to registration.

Prerequisite: Chemistry 2420.

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)

Prerequisite: Chemistry 3340, 3410, and Physics 1420 or 2420.

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*May be repeated once for additional credit.

**May be repeated as needed.

***May be repeated once for additional credit when topic differs.
***5360 Selected Topics in Analytical and Inorganic Chemistry. (3-0) Topics are chosen from Organic Reagents in Inorganic Analysis, Spectroscopic Methods of Analysis, Chemical Applications of Group Theory, Organometallic Chemistry, Transition Metals, Boron and Other Electron Deficient Compounds, Analytical Instrument Circuitry, Nonmetallic Elements, Radiation Chemistry, with the specific topic to be discussed agreed upon prior to registration.

Prerequisite: Chemistry 3410, 4440.

5362 Chemical Engineering. (3-0) Thermophysical properties and thermochemical relations are reviewed preparatory to a study of material energy balances; transport phenomena is also covered. (S)

Prerequisite: Chemistry 4352.

*5370 Problems in Chemistry. Open to graduate students on an individual basis at any time by arrangement with the faculty member concerned.

5375 Biochemistry. (3-0) A course devoted to a study of the chemistry of carbohydrates, lipids, proteins, enzymes, and nucleo-proteins. A study of enzyme kinetics and thermodynamics of coupled reactions is included. (F,SS-I)

Prerequisite: Chemistry 2420, 3340, 3410, or permission of the department.

***5380 Selected Topics in Biochemistry. (3-0) Topics are chosen from Protein and Enzyme Chemistry, Intermediary Metabolism, Vitamins and Hormones, or Physical Biochemistry, with the specific topic to be discussed and agreed upon prior to registration.

Prerequisite: Chemistry 4375-5375 or 4385-5385.

5385 Biochemistry. (3-0) A study of digestion, absorption, vitamins, intermediary metabolism and respiration. (S,SS-II)

Prerequisite: Chemistry 2420, 4375, and six semester hours of biology or permission of the department.

5395 Fundamentals of Research. (2-3) This course is designed to acquaint the beginning graduate student with materials and methods of chemical research.

5399 or 5699 Thesis.

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.

*May be repeated once with different emphasis for additional credit.

***May be repeated once for additional credit when topic differs.
Department of Mathematics

Graduate Faculty

Borm, Alfred Ervin, Associate Professor of Mathematics. B.S., The University of Texas at Austin; M.A., University of Washington; Ph.D., The University of Texas at Austin. (Modern Algebra, Computer Science)

Carlisle, Washington Homer, III, Associate Professor of Mathematics. B.A., M.A., Ph.D., Emory University. (Abstract Algebra)

Chatfield, John Albert, Professor of Mathematics. B.S., M.A., Southwest Texas State University; Ph.D., The University of Texas at Austin. (Analysis, Integration Theory)

Crossley, Sterling Gene, Professor of Mathematics. B.A., Rice University; M.S., Ph.D., Texas Tech University. (General Topology)

Doerr, Roy Frederic, Assistant Professor of Mathematics, and Supervisor of Student Teaching. B.S. in Ed., Southwest Texas State University; M.A., The University of Texas at Austin. (Mathematics Education)

Early, Grady Gaston, Associate Professor of Mathematics. B.A., Arlington State College; M.S., Ph.D., Texas A & M University. (Computer Science)

Edgell, John James, Jr., Associate Professor of Mathematics, and Supervisor of Student Teaching. B.S., Lamar State College of Technology; M.A., Sam Houston State University; Ph.D., The University of Texas at Austin. (Mathematics Education)

Hazelwood, Donald Gene, Associate Professor of Mathematics. B.A., The University of Texas at Austin; M.A., M.S., Ph.D., Syracuse University. (Analytic Number Theory)

Helton, Burrell Washington, Professor of Mathematics. B.S., United States Military Academy; B.B.A., M.A., Ph.D., The University of Texas at Austin. (Product Integrals)

McClung, Harry Byron, Associate Professor of Mathematics. B.A., M.S., Ph.D., West Virginia University. (Applied Mathematics)

McEwen, Henry Nylon, Professor of Mathematics. B.S., M.Ed., Hardin-Simmons University; Ph.D., The University of Texas at Austin. (Group Theory)

Northcutt, Robert Allan, Professor of Mathematics, and Chairman of the Department of Mathematics. B.A., M.A., Ph.D., The University of Texas at Austin. (Ordinary Differential Equations)

Ratliff, Ernest Francis, Jr., Assistant Professor of Mathematics. B.S., McNeese State College; M.A., Ph.D., University of Oklahoma. (Algebra)

Smith, James Dennis, Assistant Professor of Mathematics. B.A., M.A., The University of Texas at Austin; Ph.D., Texas Christian University. (General Topology)
Degree Programs

The Mathematics Department offers the Master of Arts, Master of Science, and Master of Education degrees with a major in mathematics, and the Master of Arts and Master of Science degrees with a major in computer science. The Master of Arts degree consists of a minimum of 30 hours including at least 24 hours in mathematics or computer science and a minor which may be from the science area. The Master of Science degree with a major in mathematics consists of a minimum of 24 hours plus a thesis or a minimum of 36 hours without a thesis. The Master of Science degree with a major in computer science consists of a minimum of 30 hours including a thesis or a minimum of 36 hours without a thesis. 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 and usually the minor must be taken outside the science area. Students are advised to contact the Mathematics Graduate Adviser or the Computer Science Graduate Adviser for more detailed information.

These courses are designed to develop studies appropriate to preparing students for doctoral research, community college teaching, public school teaching, or for careers in applied mathematics, statistics, or computer science. The faculty has specialists in algebra, analysis, applied mathematics, computer science, 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 offices.

Financial Aids Program. 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 Chairman of the Mathematics Department.

Courses Offered

*5301 Partial Differential Equations. (3-0) Theory and application of partial differential equations; deduction of the differential equation; use of vector and tensor methods; equations of the first order; wave equations; vibrations and normal functions; Fourier series and integral; Cauchy's methods, initial data; methods of Green; potentials; boundary problems; methods of Riemann-Volterra; characteristics.
Prerequisite: 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 degree plan for M.A. or M.S. degree.

*5305 Advanced Course in Probability and Statistics. (3-0) Advanced topics in probability and statistics.
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 instructor.

*5309 Foundations of Analysis. (3-0) A critical study of the bases of mathematical analysis. Material will vary according to the needs of the class.
Prerequisite: Mathematics 4315, 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 develop-

*May be repeated once with different emphasis for additional credit.
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.

Prerequisite: Mathematics 3380 and consent of the instructor.

*5330 Topics in Topology. (3-0) Selected topics in topology. Material 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.

Prerequisite: 6 hours of advanced mathematics pertinent to topic and consent of instructor.

5373 Theory of Functions of Real Variables. (3-0) This course 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 3380.

5399 or 5699 Thesis. Courses in Computer Science

*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.

Prerequisites: Mathematics 4328, or consent of the instructor.

*5318 Advanced Programming Techniques. (3-0) Advanced topics in computer programming. Languages, information structure and file maintenance.

Prerequisites: Computer Science 3408, or consent of instructor.

*5328 Data Structures. (3-0) Advanced topics in linear lists including stacks, queues, circular and linked lists; binary trees; strings; recursions.

Prerequisite: Computer Science 3358.

*5338 Formal Languages. (3-0) Advanced topics in automata theory, grammars, Turing machines, parsing theory, algorithmic complexity, artificial intelligence and syntactic methods.

*5348 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 3404 and consent of the instructor.

*5368 Topics in Computer Science. (3-0) Selected topics in computer science from advanced areas of computer systems, operations research, data structure, or computer design. Material will be varied according to the needs and interests of the class.

Prerequisite: 6 hours senior level computer science, or consent of instructor.

*May be repeated once with different emphasis for additional credit.
Department of Physics

Graduate Faculty

Anderson, Robert Ernest, Professor of Physics. B.S., M.S., Texas A&I University; Ph.D., The University of Texas at Austin.

Crawford, James Robert, Associate Professor of Physics, B.S., Phillips University; M.S. University of Arkansas; Ph.D., Kansas State University.

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

Michalk, Victor Edward, Professor of Physics, and Chairman of the Department of Physics. B.S., M.S., Texas A&I University; Ph.D., Texas A&M University.

Spear, Arthur Walsh, Associate Professor of Physics. B.A., M.A., Southwest Texas State University.

Degree Programs

Three degree options are available to students majoring in physics. The standard program which leads to the Master of Science degree, requires 15-18 hours in physics, 9-6 hours in another science, and a minimum of 6 hours of thesis. The Master of Science degree program without a thesis also is 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 M.S. program only in that the minor of 9-6 hours need not be in another science. This program leads to the Master of Arts degree and is not available with a non-thesis option.

Financial Aids 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:

Chairman, Department of Physics
Southwest Texas State University
San Marcos, Texas 78666

Courses Offered

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.
5335 Survey of Air Pollution Problems. (3-0) A survey in air pollution problems involving particulate and gaseous contaminants. Topics covered include the major sources, cleansing mechanisms, effects, measurement procedures, and ambient air standards of the primary pollutants.

Prerequisite: Two semesters of physics, or approval of the instructor.

5336 Methods and Techniques of Physical Science. (2-4) This 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 Chemistry 4336-5336.

5337 Methods and Techniques of Physical Science. (2-4) This 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 Chemistry 4337-5337.

5340 Advanced Dynamics, Part II. (3-0) Classical mechanics at an advanced level. Topics covered include special relativity in classical mechanics, Hamilton equation of motion, canonical transformations and Hamilton-Jacobi theory.

Prerequisite: Physics 4313, or approval of the instructor.

*5370 Problems in Advanced Physics. (3-0) Open to graduate students on an individual basis by arrangement with the Department of Physics.

**5395 Fundamentals of Research. (2-6) This course is available to graduate students only upon the invitation of the department.

5399 or 5699 Thesis.

*May be repeated once with different emphasis for additional credit.
**May be repeated with prior approval of department

The study of lasers and their applications is one of the newer areas in physics.
The contrasts in campus architecture found at Southwest Texas State University help contribute to the attractiveness of the campus, as well as matching its theme. The buildings pictured on this page — the Lyndon B. Johnson Memorial Student Center, with its covered mall, historic red-topped Old Main, and multi-purpose Jowers Center, the newest building on campus — illustrate well the theme "the progressive university with the proud past."
APPLICATION FOR ADMISSION
TO THE GRADUATE SCHOOL OF
SOUTHWEST TEXAS STATE UNIVERSITY
San Marcos, Texas 78666

1 Name ____________________________ 2 Soc. Sec. No. ____________________
Last First Middle Maiden

3 Sex: Male ___ Female ___

4 Permanent Address _______________________ Street City County State Zip

5 How long have you lived at this address? _________________________________

6 Country of Citizenship _________________________________

7 Current telephone ______________________ 8 Place of Birth ____________________

9 Date of Birth ____________________________

10 Marital Status: Single ___ Married ___

11 Occupation ______________________________

12 Person to notify in case of emergency (Please indicate: Spouse ___ Parent ___ Guardian ___)

Name: First Middle Last Telephone

13 An aptitude score on the Graduate Record Examination is required for admission of all students entering the Graduate School. The official score must be received in the Graduate Office no later than the end of the first long semester following the student's admission to the Graduate School.

Date taken or scheduled to take __________________________ Location __________________________

14 College and Universities attended: Two (2) official transcripts are to be sent to the Graduate Office from each university attended. Two transcripts from each university attended must be on file in the Graduate Office with a completed application before processing of the application will begin.

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<th>Name of Institution</th>
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<th>Degree</th>
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Failure to list institutions previously attended may result in dismissal from Southwest Texas State University.

15 Are you currently enrolled? Yes / No

Name of College or University ____________________________

16 Undergraduate degree held or to be received: __________________________ Date __________________

Institution granting degree ______________________________

17 Graduate Major __________________________ Thesis ___ Non Thesis ___

Graduate Minor ________________________________

18 Do you hold a teaching certificate? ___ Do you plan to complete a degree from Southwest Texas State University? ___

19 Check block that describes your ethnic origin (required for state and federal reports) White-Non-Hispanic Origin □ , American Indian or Alaskan Native □ , Black-Non Hispanic Origin □ , Asian or Pacific Islander □ , Hispanic □ , Non-resident aliens/Foreign Nationals □ , Other □

20 I have read and understand the requirements (as outlined in the SWTSU catalogue) for Texas Residency. Please indicate whether or not you are eligible for Residency Fees. I am eligible for residency: Yes ___ No ___

21 Certification: 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 SWTSU Graduate Office of any changes in place of residence of myself or any other changes in the above record which occur between now and the opening date of the term for which I am applying.

Signature of Applicant __________________________ Date __________________

SWT is an equal opportunity institution—providing educational opportunities without regard to race, color, creed, sex or national origin. This policy extends to all programs and activities of the University.
SOUTHWEST TEXAS STATE UNIVERSITY  
Application for Admission  
GRADUATE SCHOOL  
San Marcos, Texas 78666  

**TERM APPLYING FOR:**  
- Fall 19  
- Spring 19  
- Summer I 19  
- Summer II 19  

**Name ___________________________ S.S. # ____________ SEX: M or F**  
(Last) (First) (Middle) (Maiden) (Circle one)  

Current Address ___________________________  
(Street) (City) (County) (State) (Zip)  

Permanent Address ___________________________  
(Street) (City) (County) (State) (Zip)  

How long have you lived at permanent address? _________ Country of Citizenship ___________________________  

Current Telephone __________ Date of Birth _______ / _____ Place of Birth ___________________________  

Marital Status: Single □ Married □ Occupation ___________________________  

Person to notify in case of emergency (Please indicate: Spouse _____ Parent _____ Guardian _____)  

Name ___________________________ Telephone __________  
(First) (Middle) (Last)  

Address ___________________________  
(First) (Middle) (Last)  
(Street) (City) (State) (Zip)  

An aptitude score on the Graduate Record Examination is required of all students entering the Graduate School.  

List all College and Universities attended. Two (2) official transcripts are to be sent directly to the SWT Graduate Office from each university attended.  

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Failure to list all institutions previously attended may result in dismissal from Southwest Texas State University.  

Are you currently enrolled? Yes □ No □ Name of College or University ___________________________ Date __________  

Undergraduate Degree held (or to be received): ___________________________ Date __________  

Institute granting Undergraduate degree ___________________________  

Proposed Master's Degree: Thesis □ Non Thesis □  

MAJOR ___________________________ MINOR ___________________________  

Do you hold a teaching certificate? __________  

Do you plan to complete a Master's Degree from SWT? __________ If no, are you seeking Certification only? __________  

Other (Specify): ___________________________  

Check block that describes your ethnic origin (required for state and federal reports)  
□ White (Non-Hispanic) □ Asian or Pacific Islander  
□ Black □ Non-Resident alien/Foreign National  
□ American Indian or Alaskan □ Hispanic  
□ Other □ Other  

Have you resided in the state of Texas (other than as a college student) for the past 12 months? □ Yes □ No  

Have your parents, guardian or spouse resided in Texas for the past 12 months? □ Yes □ No  

If you answered no to either of the residency questions, obtain additional information from the Admission Office for verification of your residency status. I certify that I qualify for:  

Texas Resident Fees □ Non Resident/Foreign Student Fees  

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 Office of any changes in place of residence of myself or any other changes in the above record which occur between now and the opening date of the term for which I am applying.  

Signature of Applicant ___________________________ Date __________  

SWT is an equal opportunity institution providing educational opportunities without regard to race, color, creed, sex or national origin. This policy extends to all programs and activities of the University.
Graduate School Checklist Explanations

File official application for admission with the Graduate Office no later than 30 days before the beginning of the semester. Applications may be obtained in the back of the Graduate Bulletin or by writing the Graduate Office. Two official transcripts showing all college work attempted should be ordered. Personal copies are not acceptable. Allow enough time for the transcripts to arrive at least 30 days before the beginning of the semester. Timing is very important. Applications received after the 30-day deadline are extremely difficult to process in time for registration.

The admissions process is not complicated. If the applicant has a GPA of 2.75 or above on a scale of 4, admission is granted and the applicant's credentials are sent to the pertinent department for approval. If the GPA is less than 2.75 but not less than 2.50, the applicant must submit an official GRE score of 900 or above prior to acceptance. The applicant should also realize that admission to Graduate School is not the same as admission to a specific degree program. The departmental graduate adviser may decline to accept an applicant if there is reason to believe that the applicant might not be qualified for a particular program.

Once an applicant has been admitted by a department, a degree outline is designed for the applicant and returned to the Graduate Office. A copy of the degree outline is sent to the student. AN APPLICANT IS NOT OFFICIALLY IN THE GRADUATE SCHOOL OF SOUTHWEST TEXAS STATE UNIVERSITY UNTIL AN OFFICIAL DEGREE OUTLINE HAS BEEN SIGNED BY THE APPLICANT. Any course taken prior to the signing of the official degree outline is taken at the student's own risk. Any changes in the degree outline must be made by means of written official notification to the Graduate Office by the departmental graduate adviser.

All graduate students are required to take the Graduate Record examination. Even students admitted on the basis of a superior grade point average must take the GRE during the first long semester of the student's enrollment in Graduate School at Southwest Texas State University.

If the degree outline calls for a thesis, the student must confer with the departmental graduate adviser and select a thesis committee and topic. At the earliest possible time, a Thesis Proposal bearing the signatures of the members of the thesis committee and the graduate adviser must be submitted to the Graduate Dean for approval. Failure to secure approval before beginning research can cause major problems for the student. A student must be registered for Thesis 5399 or 5699 in any semester in which supervision is received and must be registered in Thesis 5399 or 5699 in the semester of graduation.

Several tasks await the student during the proposed semester of graduation. Of greatest importance is the Application for Diploma. One must pay the required fee of $8.00 and complete the necessary forms in the Graduate Office at the beginning of the semester. In the summer this must be done during the first summer session. In any case, students should check the published deadlines in the official University Calendar. Failure to pay the required fee and complete the necessary forms will result in postponement of graduation. If the student pays the fee and completes the forms, but fails to graduate for any reason, the entire process must be duplicated the following semester. Results of the comprehensive examination and clearance of all “I” grades must be in the Graduate Office no later than 10 days prior to graduation.

Candidates who have completed the necessary forms and have paid the necessary fees will receive from the University by mail a general checklist of clearances to be made and the procedures to be followed.