

STEPHEN F. AUSTIN STATE UNIVERSITY

GRADUATE BULLETIN FOR 2006-2008



1936 NORTH STREET
NACOGDOCHES, TEXAS 75962

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2006

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2007

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2008

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Calendars

The University Calendar for 2006-2008

Graduate students, except applicants to the Master of Business Administration (MBA) and Master of Professional Accountancy (MPAC) degree programs, must take the General Test of the Graduate Record Examination (GRE) and have the scores sent to the Graduate Office before admission to a program is complete. Students applying for the M.B.A. or M.P.A.C. must take the Graduate Management Admission Test (GMAT) prior to admission. There are no exceptions to this policy. Official transcripts from each college attended should be included with the application for admission and sent to the Graduate Office **at least 30 days prior to entering**. After receiving notice of admission status and before registering, graduate students should initiate, in the departmental office of their major, a graduate study degree plan by having a graduate adviser appointed and completing other necessary steps.

All university calendars are subject to change. Verify these dates with the current schedule of classes.

The University Calendar For 2006-2007 Fall Semester, 2006

August 22, Tuesday	
8 a.m. to noon	New Faculty General Orientation
1:30 p.m. – 3 p.m.	New Faculty Orientation - meet with librarians
August 23, Wednesday	
8:30 a.m. to noon	New Faculty Technology Orientation
August 24, Thursday	
8:30 a.m. - 9:30 a.m.	Faculty and staff meeting, Turner Auditorium
10 a.m.	Faculty meetings by college
11 a.m.	Faculty meetings by department
10 a.m.	Housing facilities open
1 p.m. – 5 p.m.	Assembly for all new freshmen and transfer students who did not attend summer orientation, Kennedy Auditorium
1 p.m. – 5 p.m.	Faculty available for advising
August 25, Friday	
8 a.m. - 5 p.m.	Faculty available for advising
8 a.m.	Orientation continues for all new freshmen and transfer students who did not attend summer

orientation, Kennedy Auditorium

August 26, Saturday

Housing Office, Financial Aid and Business Office open 10 a.m. to 4 p.m.

August 27, Sunday

Housing Office, Financial Aid and Business Office open 10 a.m. to 4 p.m.

August 28, Monday

8 a.m.

Classes begin

Note: The deadline for submission of all admission materials is August 1 unless otherwise specified in departmental announcements.

August 31, Thursday

Last day to change schedules other than to drop courses

Last day to register (both full-time and part-time students)

September 4, Monday

Labor Day Holiday

September 13, Wednesday

Twelfth class day

September 25, Monday

Twentieth class day

October 18, Wednesday

Mid-semester

October 23, Monday

Last day to apply for degrees to be completed in December 2006

October 25, Wednesday

Last day to drop courses

Last day to withdraw from the university without WP or WF

November 22, Wednesday

8 a.m.

Beginning of Thanksgiving holiday for students and faculty

November 27, Monday

8 a.m.

Classes resume

Last day to withdraw from the university

December 8, Friday

Noon – 1:30 p.m.

Mentor Ring Big Dip Ceremony

December 11-15, Monday-Friday

Final examinations

December 16, Saturday

End of semester

Commencement

December 20, Wednesday
Noon

Grade entry completed for fall

Spring Semester, 2007

January 12, Friday
10 a.m.

Housing facilities open

January 15, Monday
Martin Luther King Jr. holiday

January 16, Tuesday

8 a.m.

ACT Residual given, Kennedy Auditorium

9:30 a.m.

Faculty meetings by college

10:30 a.m.

Faculty meetings by department

1 p.m.

Orientation for all new freshmen and transfer students, E. L. Miller Science Building, Room 137

1 p.m. – 5 p.m.

Faculty available for advising

January 17, Wednesday

8 a.m.

Classes begin

Note: The deadline for submission of all admission materials is December 1 unless otherwise specified in departmental announcements.

January 22, Monday

Last day to change schedules other than to drop courses

Last day to register (both full-time and part-time students)

February 1, Thursday

Twelfth class day

February 13, Tuesday

Twentieth class day

March 7, Wednesday

Mid-semester

March 10, Saturday

Beginning of spring holidays

March 19, Monday

8 a.m.

Classes resume

Last day to apply for degrees to be completed in May 2007

March 21, Wednesday

Last day to drop courses

Last day to withdraw from the university without WP or WF

April 6, Friday 8 a.m.	Beginning of Easter holiday for students and faculty
April 9, Monday 4 p.m.	Classes resume
April 23, Monday Last day to withdraw from the university	
May 4, Friday Noon – 1:30 p.m.	Mentor Ring Big Dip Ceremony
May 7-11, Monday-Friday Final examinations	
May 12, Saturday End of semester Commencement	
May 16, Wednesday Noon	Grade entry completed for spring

Summer, 2007

First Term

May 27, Sunday 10 a.m.	Summer housing facilities open
May 28, Monday Memorial Day holiday	
May 29, Tuesday Registration for summer I 8 a.m. to 5 p.m. 8 a.m.	Faculty available for advising ACT Residual given, Kennedy Auditorium

1 p.m.

Orientation for all new freshmen and transfer students, E.L. Miller Science Building, Room 137

May 30, Wednesday

8 a.m.

Classes begin*

Last day to register without payment of late fees

Note: The deadline for submission of all admission materials is May 15 unless otherwise specified in departmental announcements.

May 31, Thursday

Last day to change schedules other than to drop courses

Last day to register (both full-time and part-time students)

June 4, Monday

Fourth class day

June 14, Thursday

Mid-term

June 19, Tuesday

Fifteenth class day

June 21, Thursday

Last day to drop courses

Last day to withdraw from the university without WP or WF

June 27, Wednesday

Last day to withdraw from the university

July 3, Tuesday

End of term

Final examinations

July 4, Wednesday

Independence Day Holiday

July 5, Thursday

Registration for second summer session

8 a.m. to 5 p.m. Faculty available for advising

July 6, Friday

Registration continues

8 a.m. to 5 p.m.

8 a.m.

1 p.m.

Faculty available for advising

ACT Residual given, Kennedy Auditorium

Orientation for new freshmen and transfer

students, E.L. Miller Science Building, Room 137

Second Term

July 9, Monday

Classes begin*

Last day to apply for degrees to be completed in August 2007

Note: The deadline for submission of all admission materials is June 15 unless otherwise specified in departmental announcements.

July 10, Tuesday

Last day to change schedules other than to drop courses

Last day to register (both full-time and part-time students)

Noon

Grade entry completed for Summer I

July 12, Thursday

Fourth class day

July 24, Tuesday

Mid-term

July 27, Friday

Fifteenth class day

July 31, Tuesday

Last day to drop courses

Last day to withdraw from the university without WP or WF

August 3, Friday

Last day to withdraw from the university

August 8, Wednesday

8 a.m.

ACT Residual given, Kennedy Auditorium

August 10, Friday

Final examinations

August 11, Saturday

End of term

Summer commencement

August 15, Wednesday

Noon

Grade entry completed for Summer II

** Consult schedule of classes for variations in class beginning and ending dates.*

Fall Semester, 2007

- August 21, Tuesday
 8 a.m. to noon New Faculty General Orientation
 1:30 p.m. – 3 p.m. New Faculty Orientation - meet with librarians
- August 22, Wednesday
 8:30 a.m. to noon New Faculty Technology Orientation
- August 23, Thursday
 8:30 a.m. - 9:30 a.m. Faculty and staff meeting, Turner Auditorium
 10 a.m. Faculty meetings by college
 11 a.m. Faculty meetings by department
 10 a.m. Housing facilities open
 1 p.m. – 5 p.m. Assembly for all new freshmen and transfer students who did not attend summer orientation, Kennedy Auditorium
 1 p.m. – 5 p.m. Faculty available for advising
- August 24, Friday
 8 a.m. - 5 p.m. Faculty available for advising
 8 a.m. Orientation continues for all new freshmen and transfer students who did not attend summer orientation, Kennedy Auditorium
- August 25, Saturday
 Housing Office, Financial Aid and Business Office open 10 a.m. to 4 p.m.
- August 26, Sunday
 Housing Office, Financial Aid and Business Office open 10 a.m. to 4 p.m.
- August 27, Monday
 8 a.m. Classes begin
 Note: The deadline for submission of all admission materials is August 1 unless otherwise specified in departmental announcements.
- August 30, Thursday
 Last day to change schedules other than to drop courses
 Last day to register (both full-time and part-time students)
- September 3, Monday
 Labor Day holiday
- September 12, Wednesday
 Twelfth class day
- September 24, Monday
 Twentieth class day

January 14, Monday
8 a.m. Classes begin

Note: The deadline for submission of all admission materials is December 1 unless otherwise specified in departmental announcements.

January 17, Thursday

Last day to change schedules other than to drop courses

Last day to register (both full-time and part-time students)

January 21, Monday

Martin Luther King Jr. holiday for students and faculty

January 30, Wednesday

Twelfth class day

February 11, Monday

Twentieth class day

March 5, Wednesday

Mid-semester

March 8, Saturday

Beginning of spring holidays

March 17, Monday

8 a.m.

Classes resume

Last day to apply for degrees to be completed in May 2008

March 19, Wednesday

Last day to drop courses

Last day to withdraw from the university without WP or WF

4 p.m. – Beginning of Easter holiday for students and faculty

March 24, Monday

8 a.m.

Classes resume

April 21, Monday

Last day to withdraw from the university

May 2, Friday

Noon – 1:30 p.m.

Mentor Ring Big Dip Ceremony

May 5-9, Monday-Friday

Final examinations

May 10, Saturday

End of semester

Commencement

May 14, Wednesday

Noon

Grade entry completed for spring

Summer, 2008

First Term

May 25, Sunday

Housing facilities open

May 26, Monday

Memorial Day holiday

May 27, Tuesday

Registration for summer I

8 a.m. to 5 p.m.

8 a.m.

1 p.m.

Faculty available for advising

ACT Residual given, Kennedy Auditorium

Orientation for all new freshmen and transfer students, E.L. Miller Science Building, Room 137

May 28, Wednesday

8 a.m.

Classes begin*

Last day to register without payment of late fees

Note: The deadline for submission of all admission materials is May 15 unless otherwise specified in departmental announcements.

May 29, Thursday

Last day to change schedules other than to drop courses

Last day to register (both full-time and part-time students)

June 2, Monday

Fourth class day

June 12, Thursday

Mid-term

June 17, Tuesday

Fifteenth class day

June 19, Thursday

Last day to drop courses

Last day to withdraw from the university without WP or WF

June 25, Wednesday

Last day to withdraw from the university

July 1, Tuesday

End of term

Final examinations

July 2, Wednesday

Registration for second summer session

8 a.m. to 5 p.m.

Faculty available for advising

July 3, Thursday

Registration continues

8 a.m. to 5 p.m.

Faculty available for advising

8 a.m.

ACT Residual given, Kennedy Auditorium

1 p.m.

Orientation for new freshmen and transfer students, E.L. Miller Science Building, Room 137

July 4, Friday

Independence Day holiday

Second Term

July 7, Monday

Classes begin*

Last day to apply for degrees to be completed in August 2008

Note: The deadline for submission of all admission materials is June 15 unless otherwise specified in departmental announcements.

July 8, Tuesday

Last day to change schedule other than to drop courses

Last day to register (both full-time and part-time students)

Noon

Grade entry completed for Summer I

July 10, Thursday

Fourth class day

July 22, Tuesday

Mid-term

July 25, Friday

Fifteenth class day

July 29, Tuesday

Last day to drop courses

Last day to withdraw from the university without WP or WF

August 1, Friday

Last day to withdraw from the university

August 6, Wednesday

8 a.m.

ACT Residual given, Kennedy Auditorium

August 8, Friday

Final examinations

August 9, Saturday

End of term

Summer commencement

August 13, Wednesday

Noon

Grade entry completed for Summer II

** Consult schedule of classes for variations in class beginning and ending*

Administration

The Board of Regents

Margarita de la Garza-Graham, M.D.	2007	Tyler
Kenneth James	2007	Kingwood
Fred Wulf	2007	Center
Valerie E. Ertz	2009	Dallas
Joe Max Green	2009	Nacogdoches
Paul G. Pond	2009	Port Neches
Richard Boyer	2011	The Colony
James A. Thompson	2011	Sugar Land
Melvin R. White	2011	Pflugerville

Officers of the Board

Fred Wulf	Chair
Valerie E. Ertz	Vice Chair
Margarita de la Garza-Graham, M.D.	Secretary

Officers of Administration

Tito Guerrero, III, Ed.D.	President
Mary Cullinan, Ph.D.	Provost/Vice President for Academic Affairs
Marlin C. Young, Ed.D.	Associate Provost/Vice President for Academic Affairs
Deborah S. Baisden, M.B.A.	Vice President of Finance and Administration
Baker Pattillo, Ph.D.	Vice President for University Affairs
Jerry E. Holbert, Ph.D., CFRE	Vice President for University Advancement
David L. Jeffrey, Ed.D.	Associate Vice President for Graduate Studies and Research

Alumni Association

Jim Jeter, M.Ed.	Associate Vice President for Alumni Affairs
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Deans of Colleges

James O. Standley, Ph.D.	Dean of the College of Applied Arts and Sciences, and the College of Liberal Arts
Violet C. Rogers, Ph.D.	Dean of the College of Business
John E. Jacobson, Ed.D.	Dean of the College of Education
Richard Berry, D.M.A.	Dean of the College of Fine Arts
R. Scott Beasley, Ph.D.	Dean of the College of Forestry and Agriculture
Anthony J. Duben, Ph.D.	Dean of the College of Sciences and Mathematics

Control and Accreditation

By legislative act, a nine-member Board of Regents, appointed by the governor and confirmed by the Texas Senate, governs Stephen F. Austin State University. Each member serves a six-year term, with three new appointments every two years. This board elects all members of the administration, faculty and professional staff, and sets general policies for the university programs.

Stephen F. Austin State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia, 30033-4097; Telephone number 404-679-4501) to award degrees at the bachelor's, master's and doctoral levels. It also holds accreditation by and membership in the AACSB International—The Association to Advance Collegiate Schools of Business, Academy for Certification of Vision, Rehabilitation, and Education Professionals, the Alpha Chi National Scholarship Society, the American Association of State Colleges and Universities, the American Association of Colleges for Teacher Education, the American Dietetics Association, the American Speech-Language-Hearing Association, the Association of Texas Colleges and Universities, the Association of Texas Graduate Schools, the Council of Southern Graduate Schools, Computing Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (A.B.E.T.), the Council on Accreditation of Counseling and Related Educational Programs, the Council of Graduate Departments of Psychology, the Council on Rehabilitation Education, the Council on Social Work Education, the International Union of Forestry Research Organizations, the National Association for Education of Young Children, the National Association of Schools of Art and Design, the National Association of Schools of Music, the National Association for Sport and Physical Education, the National Collegiate Honors Council, the National Communication Association, the National Council for Accreditation of Teacher Education, the Society of American Foresters, the Southwest Education Council for Journalism and Mass Communication, the Texas Association of Music Schools, the Texas Association of Schools of Art, the Texas Music Educators Association, the Texas Music Educators Conference.

Graduate Majors by Degree

- **Doctor of Education**
Educational Leadership
- **Doctor of Philosophy**
Forestry
- **Master of Fine Arts**
Art Design
- **Master of Arts**
Art
Communication
Counseling (Community, Rehabilitation, School)
English
History
Music Education
Psychology
School Psychology

- **Master of Business Administration**
 - General Business
 - Management
- **Master of Professional Accountancy**
 - Accounting
- **Master of Education**
 - Early Childhood Education
 - Educational Leadership
 - Elementary Education
 - Kinesiology
 - Secondary Education
 - Special Education
- **Master of Forestry**
 - Forestry
- **Master of Interdisciplinary Studies**
- **Master of Music**
 - Music (Performance, Conducting)
- **Master of Science**
 - Athletic Training
 - Biology
 - Biotechnology
 - Chemistry
 - Communication Sciences and Disorders
 - Computer Science
 - Environmental Science
 - Family and Consumer Sciences
 - Forestry (Forest Management, Silviculture)
 - General Agriculture
 - Geology
 - Mathematics
 - Natural Science
 - Physics
 - Resource Interpretation
 - School Mathematics Teaching
 - Spatial Science
 - Statistics
- **Master of Social Work**

The Graduate Council

The principal advisory body for graduate education at Stephen F. Austin State University is the Graduate Council, chaired by the associate vice president for graduate studies and research.

The council is composed of 10 elected and appointed members of the graduate faculty. The university librarian, the registrar and a graduate student appointed by the associate vice president for graduate studies and research are ex officio members.

Seven of the members of the council, one from each college, are elected from the full members of the graduate faculty. Three members are appointed from the full members of the graduate faculty by the council chair, subject to the principle of proportionate representation from each college on the basis of full and associate members of the graduate faculty in the respective colleges and subject further to the approval of the provost and vice president for academic affairs. Both elected and appointed members of the council serve three-year terms.

Members of the present council, with the undergraduate college affiliation, terminal date of each term, and the method of selection:

- David L. Jeffrey, Ed.D.**(Associate Vice President for Graduate Studies), Chair
- Peter Andrew, M.F.A.**(Fine Arts, 2006, elected)
- Chris Barker, Ph.D.**(Faculty Senate Representative), ex officio
- Dan Bruton, Ph.D.**(Sciences and Mathematics, 2008, appointed)
- Sandra Cole, D.P.Ed.,**(Education, 2007, elected)
- Tiffany Evans, Ph.D.**(Library Director), ex officio
- Michele Harris Ph.D.**(Sciences and Mathematics, 2006, elected)
- W. Dale Hearrell, Ph.D.**(Liberal Arts, 2007, elected)
- Janice Pattillo, Ph.D.**(Education, 2006, appointed)
- Lauren Scharff, Ph.D.**(Liberal Arts, 2008, elected)
- Peter Simbi, Ph.D.**(Applied Arts and Sciences, 2008, elected)
- Dillard Tinsley Ph.D.**(Business, 2007, elected)
- Sherry Wells, M.I.S.**(Registrar), ex officio
- Leon Young, Ph.D.**(Forestry and Agriculture, 2008, elected)

Graduate Study

Mission and Core Values

The **mission** at Stephen F. Austin State University is to provide students a foundation for success, a passion for learning and a commitment to responsible global citizenship in a community dedicated to teaching, research, creativity and service.

At SFA, **we value:**

The Individual Student: Each student is an important member of the university community and deserves our time and attention. The size of our university, the priority of our teaching mission and the commitment of our employees make such personal attention to students possible. Respect and an assumption of ability and good will are extended to all members of the university community – students, faculty, administrators, and staff – by all members of the community.

Teaching and Learning: Stephen F. Austin State University is a teaching-centered institution that values learning, intellectual achievement and well-qualified educators who are committed to teaching. Each student is expected to emerge from the university experience as an educated person of integrity, thoroughly knowledgeable in one or more specific fields and capable of analytical reasoning.

Intellectual and Creative Discovery: Stephen F. Austin State University places significant value on the development of new knowledge and on cultural enrichment. Therefore, the university is committed to providing faculty, staff and students with opportunities for innovative accomplishments through creative and scholarly activities.

Service: Stephen F. Austin State University values its role in serving the educational, cultural, social and economic needs of society. Course and degree offerings reflect regional, national and international needs. Consulting, other professional services, and cultural events offered by the university are designed to enrich and improve the greater community.

Academic Achievement: Stephen F. Austin State University values academic achievement through students, faculty and staff working diligently and cooperatively. Educational experiences are provided that will empower each student to succeed. The university values knowledge, understanding, wisdom, diligence, integrity, high principles, enthusiasm and responsibility, along with consideration for all people of the world. This is the legacy we desire to pass on to the students of Stephen F. Austin State University.

Vision:

Stephen F. Austin State University will be the national model of a high-quality, student-focused, comprehensive university whose graduates are productive citizens and successful leaders.

Graduate School Mission

In its programs of graduate education, Stephen F. Austin State University seeks to afford qualified students the opportunity and a supportive environment in which to gain sufficient mastery of their chosen fields, so that, by virtue of

their depth and breadth of knowledge and the extent of their expertise, they may contribute importantly to those fields.

In the service of this mission, the university seeks to staff the graduate departments with faculty who maintain a high level of competence and productivity, and to equip them so as to permit scholarship, creation and practice to advance at the leading edge of their respective disciplines. The university seeks to provide the needed intellectual infrastructure and resources to support its mission to provide superior graduate education.

Essential to the accomplishment of this mission is careful selectivity in the admission of students. Selective entrance requirements are partly for the maintenance of the high standards that characterize graduate study and partly for the benefit of the student who needs to determine early whether to undertake graduate work.

Graduate School regulations in this bulletin are effective at the beginning of the spring semester 2006. The graduate degree requirements are governed by the bulletin in effect at the time of a student's first enrollment in a graduate program or by any subsequent bulletin, whichever the student chooses, within a period of six consecutive years (see the statement below on the limitation of time). The Graduate School reserves the right to institute, during the time of a student's work toward a degree, any new ruling that might be necessary. Although new policies usually are not retroactive, the Graduate School reserves the right to make them so. In addition, the Board of Regents has authority to establish tuition and required fees within limits prescribed by the Legislature. Students should be aware that these fees are subject to change.

The associate vice president for graduate studies and research and the deans of the colleges are responsible for the academic program of all graduate students and for policies and standards formulated by the Graduate Council.

Additional policies and standards of graduate work, which do not conflict with general policies of the Graduate School and are approved by the Graduate Council, may be established by each department offering graduate work.

Each graduate student approved for work in a degree program is placed under the supervision of a faculty adviser or committee representing the major and, if applicable, minor departments. The major adviser or committee must approve the student's program and administer the required examinations. The dean of the appropriate college and the chair of the major department are ex officio members of each graduate student's advisory committee.

Graduate Degrees and Courses

Stephen F. Austin State University is authorized by its Board of Regents to offer the terminal Doctor of Education, Doctor of Philosophy and Master of Fine Arts degrees, as well as the Master of Arts, the Master of Business Administration, the Master of Education, the Master of Forestry, the Master of Interdisciplinary Studies, the Master of Music, the Master of Professional Accountancy, the Master of Public Administration, the Master of Science and the Master of Social Work degrees. A cooperative program with Texas A&M University permits majors for the Doctor of Philosophy degree in forestry to enroll in course work and participate in research at both institutions.

At present, the university offers graduate majors in accounting, agriculture, art, athletic training, biology, biotechnology, chemistry, communication, communication sciences and disorders, computer science, counseling, early

childhood, elementary education, educational leadership, English, environmental science, family and consumer sciences, forestry, general business, geology, history, kinesiology, management, mathematics, music, natural science, physics, psychology, public administration, resource interpretation, school mathematics teaching, school psychology, secondary education, social work, spatial science, special education, speech language pathology and statistics. Minors are offered in many fields listed above and, in addition, in geography, political science, sociology and theatre. Some graduate courses are offered in criminal justice and modern languages.

The Master of Arts degree is conferred with majors in art, communication, counseling, English, history, music, psychology and school psychology. The Master of Science degree is conferred with majors in agriculture, athletic training, biology, biotechnology, chemistry, communication sciences and disorders, computer science, environmental science, family and consumer sciences, forestry, geology, human sciences, mathematics, school mathematics teaching, natural science, physics, spatial science, and statistics. The Master of Education degree is conferred with majors in early childhood education, educational leadership, elementary education, kinesiology, secondary education and special education. The Master of Forestry degree is conferred with a major in forestry. The Master of Business Administration degree is conferred with majors in general business and management. The Master of Professional Accountancy is conferred with a major in accounting. The Master of Public Administration is offered with a major in public administration. The Master of Fine Arts degree is conferred with a major in art. The Master of Interdisciplinary Studies degree is conferred without a major since it is the nature of the program to study in three or more academic disciplines. The Doctor of Education is conferred with a major in educational leadership. The Doctor of Philosophy degree is conferred with a major in forestry.

Stephen F. Austin State University offers parts of some degree programs at off-campus locations. Students interested in more information about these programs should contact the Graduate School.

Courses available only for graduate credit are numbered in the 500s and 600s. A graduate student is strongly urged to take all course work on that level. In certain circumstances, however, a student may take a maximum of nine semester hours in 400-numbered courses that have been approved for graduate credit. In 400-level courses, a graduate student is expected to perform at a distinctly higher level than an undergraduate in the same course. In all work, a graduate student must demonstrate an inclination for and ability to carry on independent study and research. **A student must be admitted to the Graduate School in order to enroll in any course taken for graduate credit.**

Limitation of Time

With the exception of the Ed.D., Ph.D. and M.F.A. degrees, all work on a graduate degree must be completed within six years of the time the student first enrolls in graduate courses, whether the courses are taken here or elsewhere. In the case of the student who serves on active duty with the armed forces of the United States between the dates of matriculation and graduation, the six-year limitation will be extended one year for each year of active duty up to a maximum extension of four years. Time limits for the Ed.D., Ph.D. and M.F.A. degrees are specified under the respective program

descriptions elsewhere in this bulletin.

Admission

Admission to the Graduate School is under the control of the associate vice president for graduate studies and research to whom application for admission must be made and to whom all correspondence should be addressed on the subject.

Four types of admission exist:

- (1) Clear admission under which the student is eligible to work toward a graduate degree;
- (2) Probationary admission under which the student is eligible to work toward a graduate degree but with the provision that the student earn a B average on course work the first semester or summer session of registration or be placed on academic suspension;
- (3) Provisional admission under which an individual is permitted to take graduate courses for one semester only, under the provisions described below;
- (4) Post-baccalaureate admission under which the student already holding a bachelor's or master's degree is eligible to take graduate courses but may apply only a limited number of these courses toward a graduate degree.

Application forms for admission are available from the Graduate School and online at www.sfasu.edu/graduate/application.htm. Official transcripts from each college/university attended must be included with the completed application form and sent to the Graduate Office **at least 30 days prior to entering**. Stephen F. Austin State University will accept credit or recognize degrees only from institutions accredited by one of the regional accrediting bodies.

Furthermore, an applicant must present General Test scores either on the Graduate Record Examination (GRE) or, in the case of business study, the Graduate Management Admission Test (GMAT). Under certain circumstances, an applicant may be granted provisional admission or temporary post-baccalaureate admission without having taken the GRE. In such cases, the student must provide GRE scores during the first semester or summer session of enrollment.

An applicant whose native language is not English must present satisfactory scores on the Test of English as a Foreign Language (TOEFL) or make an 80 or higher on the American English Language Institute's (AELI) English Proficiency Test. (See description of the TOEFL and AELI elsewhere in this bulletin.)

An applicant for admission to graduate study must either (1) be in the final semester of undergraduate work (2) hold a baccalaureate degree from a regionally accredited institution or (3) have completed 95 or more semester hours of undergraduate work here and be approved for graduate study as an overlap student (see Overlap Program elsewhere in this bulletin). Additionally, an applicant for admission as a major to a graduate degree program (excluding the M.B.A., M.P.A. (Accounting), M.F. and the M.F.A.) must present 18 semester hours of undergraduate work in that field or 18 semester hours of closely related work approved by the appropriate academic department. The same provision extends to an applicant intending to pursue a graduate minor of 15 or more semester hours.

An applicant admitted to the Graduate School must enroll within one calendar year of admission. Thereafter, the applicant must reapply for admission.

The application process will be conducted in accordance with the requirements of the Admission and Scholarship Policies for Graduate and Professional Programs, which

was adopted by the 77th Session of the Texas Legislature, and which amends Chapter 51 of the Texas Education Code.

Clear Admission

Excepting the M.B.A., M.P.A. (Accounting), M.F.A., M.F., M.S. (forestry), M.S.W., Ed.D. and Ph.D. degrees, to receive clear admission to a degree program, an applicant must have an overall grade point average of 2.5 and a grade point average of 2.8 on the last 60 hours of undergraduate work (exclusive of freshman level courses), each on a 4.0 scale. The student also must present acceptable scores on the General Test of the Graduate Record Examination (GRE). If the applicant does not meet the minimum GPA requirements, he or she should contact the department adviser to see if the GRE scores and/or a combination of other factors might meet the requirements for clear admission.

Admission requirements for the M.B.A. and M.P.A. (accounting) programs are listed in the College of Business section of this bulletin.

For clear admission requirements to the M.F.A., M.F., M.S. (forestry), M.S.W., Ed.D. and Ph.D. degree programs, see the respective program descriptions elsewhere in this bulletin.

In all cases, an applicant must be recommended for admission to a graduate degree program by the major department and the appropriate academic dean.

No applicant will be granted clear admission until all official transcripts and GRE or GMAT scores are received by the Graduate Office.

Probationary Admission

Excepting the M.B.A., M.P.A. (accounting), M.F.A., M.F., M.S. (forestry), M.S.W., Ed.D. and Ph.D. degrees, an applicant failing to achieve clear admission to graduate study may qualify for probationary admission by having an overall grade point average of 2.3 and a grade point average of 2.5 on the last 60 hours of undergraduate work (exclusive of freshman level courses), each on a 4.0 scale. The student also must present acceptable scores on the General Test of the Graduate Record Examination (GRE).

If the applicant does not meet the minimum GPA requirements, he or she should contact the department adviser to see if the GRE scores and/or a combination of other factors might meet the requirements for probationary admission.

In the case of a mature applicant for graduate study, an alternative set of criteria may be used to consider admissibility on a probationary basis:

1. Alternative criteria will be applied only in a case in which the applicant has had a minimum of five consecutive years of successful professional experience beyond the baccalaureate degree that is relevant to the applicant's graduate aims.
2. The applicant's professional experience will be considered in lieu of standard criteria but admission will be determined on a case-by-case basis and granted only upon the agreement of the appropriate academic department and the academic dean.
3. The applicant's professional experience must be well documented by endorsements from supervisors or by other appropriate means.
4. Professional experience to be considered will include military service, governmental service, business or industrial work, teaching or educational administration, and social work.
5. Admission by alternative criteria will be probationary.

6. Necessary background work will be included in probationary admission.
7. An applicant must be recommended for admission to a graduate degree program by the major academic department and the appropriate academic dean.
8. Probationary admission under the alternative criteria requires the applicant to present acceptable scores on the General Test of the GRE.

Provisional Admission

For all graduate degree-seeking students, applicants unable to supply all the required documentation prior to the first semester of enrollment, but who, based on previous academic performance, appear to meet the requirements for clear admission, may be considered for provisional admission. The record must indicate a minimum overall grade point average of 2.5, and a 2.8 for the last 60 semester credit hours (exclusive of freshman level courses) based on a 4.0 scale. (The M.S.W. program has different clear admission criteria.) This status requires the recommendation of the appropriate department and the approval of the academic dean. It is valid for one regular semester or two summer sessions only.

Complete and satisfactory credentials must be received by the Graduate School prior to the beginning of the following semester of work. If this does not occur, the person will not be permitted to continue as a degree-seeking student. A maximum of 12 hours of graduate level coursework taken under provisional status may be applied toward a degree.

Those applicants seeking the M.B.A., M.P.A. (accounting), Ed.D. or Ph.D. degrees are not eligible for provisional admission.

A student granted provisional admission may be considered for an assistantship or other form of financial support for one regular semester or two summer sessions only under this status.

Post-Baccalaureate Admission

A student already holding a baccalaureate or graduate degree may be admitted to graduate study on post-baccalaureate status. On this status a student may take courses for the purpose of qualifying for a graduate degree program, certification, professional development or personal enrichment. There are restrictions and limitations on the application of post-baccalaureate hours toward a graduate degree. Upon gaining admission to a degree program and with the approval of the graduate adviser, the department chair and the academic dean, the post-baccalaureate student may apply a maximum of six credit hours earned with grades of B or better to a thesis program or 12 credit hours earned with grades of B or better to a non-thesis program.

To be admitted to post-baccalaureate study, the applicant must present proof of holding at least a bachelor's degree from a regionally accredited institution. A GRE score is not required.

Post baccalaureate admission is not available for graduate study in the College of Business.

Overlap Program Admission

The Overlap Program permits qualified undergraduates to pursue a limited amount of graduate study concurrently with undergraduate study. A maximum of 12 credit hours is allowed for those programs that require a minimum of 24 credit hours of coursework. Those degree programs with higher credit hours of coursework may allow more credit

hours in the overlap program. Graduate courses taken in the program, however, are not applicable toward the baccalaureate degree. Unless enrolled in the M.P.A. (accounting) program, an Overlap Program student is ineligible for a graduate assistantship until the completion of the baccalaureate degree. An M.P.A. (accounting) student with 12 or fewer hours remaining on the undergraduate degree plan who has been admitted to graduate study is eligible for an assistantship.

To be eligible for the Overlap Program, a student must be enrolled at SFA and must have achieved at least 95 semester hours of undergraduate credit. A student with fewer than 115 hours of undergraduate credit must present a 3.0 grade point average both overall and in the major field. A student with 115 hours or more of undergraduate credit, however, may be admitted to the Overlap Program by presenting a 2.5 grade point average overall and a 2.8 grade point average in the major field. Any student admitted to the Overlap Program must take the Graduate Record Examination (GRE) at the earliest possible date, or the GMAT before admission.

To be admitted to the Overlap Program a student should:

1. Apply to the Graduate School,
2. Complete an Overlap Application,
3. Obtain the recommendation of the major department, and
4. Obtain the recommendation of the appropriate academic dean.

Application Fees

A \$25 application fee is to be included with the application materials. A fee of \$50 must accompany the application of all foreign applicants, except those under university-sponsored exchange programs.

Appeal

An applicant may appeal an admission decision to the Graduate Council. The appeal should be made in writing and routed through the associate vice president for graduate studies and research.

Admission Examinations

A student seeking admission to any graduate degree program at SFA must take the General Test either of the Graduate Record Examination (GRE) or the Graduate Management Admission Test (GMAT), whichever is applicable. No other standardized test scores are accepted.

Each applicant is individually responsible for making arrangements for taking the General Test of the GRE or the Graduate Management Admission Test and for having the scores sent to the Graduate Office, P.O. Box 13024, SFA Station, Nacogdoches, Texas 75962.

GRE

The General Test of the GRE is an objective and written essay examination requiring approximately three to four hours and yielding three scores-Verbal Factor (vocabulary and reading comprehension); Quantitative Factor (logical mathematical reasoning); and Analytical Writing.

All of the Graduate Record Examinations, of which the General Test is merely one, are prepared and scored by the Educational Testing Service, P.O. Box 6000, Princeton, N.J., 08541-6000.

Computer-Based Testing (CBT) Program—The General Test of the GRE is available through the Computer-Based Testing (CBT) Program of the Educational Testing Service. There are CBT test centers located throughout the United States, U.S. territories, Puerto Rico and Canada. The CBT Program also is being offered outside the United States. Stephen F. Austin State University is a designated CBT site.

The applicant may register for the GRE by calling the CBT test center directly (at SFA, the number is (936) 468-2401) or the GRE registration number, 1-800-GRE-CALL (1-800-473-2255), to schedule an examination date. Under the CBT Program, the examinee is able to view the scores of the verbal and quantitative sections immediately. Paper score reports are available to the examinee and the designated score recipients approximately 15 days after the test date.

Information about the GRE and registration instructions is available from the Educational Testing Service. For general inquiries, the Educational Testing Service can be contacted by phone (1-609-771-7670), by Fax (1-609-771-7906), by e-mail (gre@ets.org), or by Internet (www.gre.org).

GMAT

The GMAT measures general verbal, mathematical, and analytical writing skills. The verbal and mathematical sections make use of objective questions, and analytical writing is tested by written essays on two topics. The exam requires approximately four hours and is available at Computer-Based Testing Centers throughout the United States, U.S. territories, Puerto Rico and Canada. Each testing center is available year-round, and exams are scheduled by appointment (at SFA, the telephone number is (936) 468-6300). To schedule an appointment at other locations throughout the U.S. and Canada, call 1-800-GMAT-NOW (1-800-462-8669). Although exams can sometimes be scheduled on short notice, examinees are encouraged to register as early as possible to ensure that the desired date is available.

Study guides are available from many sources including most bookstores and the Educational Testing Service, which administers the GMAT exam. For general inquiries about the GMAT, the Educational Testing Service can be contacted by phone (1-609-771-7330), by fax (1-609-883-4349), by e-mail (gmata@ets.org), or by Internet (www.MBA.com).

Test Takers with Disabilities

Nonstandard testing accommodations are available for test takers with disabilities. Procedures for requesting special accommodations are described on the Internet at www.gre.org.

International Student Admission

An applicant from a foreign country must meet the same requirements for admission to a graduate degree program as a student from the United States. An applicant must be admitted to a degree program or be a part of an exchange or special program recognized by SFA. All international applicants must submit a completed International Student Application (available on the Web at www.sfasu.edu/admissions), as well as a non-refundable \$50 application evaluation fee. Both international and domestic applicants whose degree is from a foreign college or university will be required to submit certified English translations of all transcripts. In some cases, students may be required to submit a professional credential evaluation.

All application materials and official test scores from TOEFL, GRE, and GMAT should be sent to the Graduate School, P.O. Box 13024, SFA Station, Nacogdoches, Texas 75962-3024.

TOEFL - Applicants whose native language is not English are required to submit evidence to demonstrate competency in the English language sufficient to function successfully in graduate work. They may do so by submitting results from the Test of English as a Foreign Language (TOEFL) or the IELTS. The TOEFL is given in both a paper-based and computer-based test. Information concerning the TOEFL, including application forms and testing stations and dates, may be secured from SFA or from the Educational Testing Service, P.O. Box 6151, Princeton, N.J. 08541-6151.

American English Language Institute - Applicants also may meet the requirement for English language proficiency through the American English Language Institute (AELI). The AELI is an intensive English language program that provides international students with the necessary English skills to succeed in undergraduate and graduate university programs at SFA.

The AELI does not require a minimum TOEFL score for admission. Students who successfully complete the program of study will be granted admission into the regular undergraduate or graduate program at SFA if other entrance requirements are met. No additional language test scores are needed if one makes an 80 or higher on the AELI English Proficiency Test.

Admission requirements:

- 1) Complete the AELI application form (at AELI Web site – www.sfasu.edu/aeli)
- 2) Provide diploma or certificate from high school or highest level of education
- 3) Pay a \$40 nonrefundable application fee (U.S. check, international bank draft or money order made payable to American English Language Institute)
- 4) Provide proof of financial support (required for visa purposes; form available on AELI Web site)

Successful applicants will be sent a letter of acceptance and a Certificate of Eligibility (I-20 form). The I-20 form is required in order to apply for a visa at the nearest U.S. consulate.

Students will be placed in appropriate courses after their English language skills are assessed upon arrival on campus.

The AELI program is comprised of a minimum of 18 hours supervised instruction per week, plus laboratory work, and conversational partner programs.

Instruction provided in:

- Composition and writing
- Oral communication (pronunciation and conversation)
- Practical or academic grammar
- Reading for information (includes TOEFL preparation – if needed; SAT/ACT, GRE/GMAT preparation)
- U.S. life and culture

Following admission to the Graduate School, and prior to the issuance of the I-20 form, international students must provide proof of financial support in the amount of at least \$15,052 (U.S. currency) for each academic year of study anticipated at SFA, subject to adjustment by scholarships, assistantships, etc. All international students taking three or more credit hours are required to enroll in the insurance program

endorsed by the university, unless proof of comparable insurance is furnished.

For more information relevant to international students, see Office of International Programs described in the Special Student Services section of this bulletin.

Transfer of Credit

Under certain circumstances, a graduate student may transfer from six to 12 semester hours of graduate course work taken at other accredited institutions. The student pursuing a master's degree with thesis may transfer a maximum of six semester hours; a student pursuing a master's degree without thesis may transfer a maximum of 12 semester hours.

To transfer any credit from other institutions, however, the student must submit an official transcript of the courses to be considered and have the approval of the appropriate academic department and academic dean. **The work must have been taken not earlier than six years prior to the student's first graduate enrollment at SFA.** Moreover, if the student fails to complete work on the graduate degree at SFA before the expiration of the six years, the transfer credit will not be applicable toward a degree here.

Any course accepted by transfer will carry credit but not grade point value. Moreover, to transfer credit, the student must have earned a grade of B or higher on the course.

Procedure After Admission

Following admission to a graduate degree program, a student must confer with the graduate adviser in the major department and, if applicable, the minor department to obtain advice about the courses to take. As soon as possible and preferably during the first semester or summer session of enrollment, a student should have a degree plan made by the graduate adviser in the major department and, if applicable, the minor department. In the case of a minor, a representative of the minor department must be included on the student's advisory committee.

Thereafter, at stipulated stages, a student must:

1. Apply for admission to candidacy for the graduate degree,
2. Complete all requirements of the degree plan, apply for the degree, and
3. Take a comprehensive examination administered by the major department and, if applicable, the minor department.

The guide below outlines the step-by-step procedure:

Admission to Candidacy

At the completion of from nine to 12 graduate hours, a continuation/ diagnostic examination, either oral or written depending on the academic department, should be administered to determine whether deficiencies exist and whether a student should be admitted to candidacy and continued in a degree program. (Some programs will be allowed to administer the examination after the student has completed 18 hours.) Undergraduate subjects may be included on the diagnostic/continuation examination to ascertain if a student has mastered the fundamentals of the discipline.

Before admission to candidacy to a degree can be made, however, the student must have satisfied the following requirements:

- (1) Completed a graduate degree plan;

- (2) Attained at least a B average on all work at SFA in the major and overall;
- (3) Taken the General Test of the Graduate Record Examination (GRE) or the Graduate Management Admission Test (GMAT), whichever is applicable, and filed with the Graduate School a copy of the scores;
- (4) If applicable, obtained the approval of the thesis proposal;
- (5) Removed all prerequisites to candidacy imposed by the major department; and
- (6) Obtained the recommendation of the major department.

Procedure for Thesis Preparation

1. *Thesis Advisory Committee*

The initial step in establishing an advisory committee is to select a thesis director. With the advice of this person, a thesis topic should be selected as soon as possible. Following completion of these two steps, the balance of the committee can be formed. The committee is to be composed of a chair (thesis director) and at least two other members of the graduate faculty selected by the student and approved by the chair and the associate vice president for graduate studies and research. Committee members with adjunct graduate faculty membership may serve where deemed appropriate with the approval of the associate vice president, but may not serve as the thesis director.

2. *Thesis Proposal*

Under the direction of the thesis director, prepare a thesis proposal that is then submitted to the advisory committee for approval (see Thesis Guide). After each committee member has signed the Proposal Approval Form, the proposal is submitted to the department chair and the associate vice president for approval.

Following approval, a full or associate member of the graduate faculty from another discipline will be appointed to represent the Graduate School as a member of the thesis examination committee.

3. *Registration for 589 and 590*

After receiving the approval of the thesis proposal from the Graduate Office, but not before, register for the appropriate thesis writing course (590). A student must be enrolled in 590 during the semester or summer session in which the thesis examination/defense is conducted. However, enrollment in 590 is not required for the semester or summer session in which the student graduates unless it is the same one during which the thesis was defended. Following the initial enrollment in 589 (thesis research) and until the thesis is defended, a student must continue to register for 589 or 590 each fall and spring semester and each summer session during which the resources of the university (faculty, library, laboratories, etc.) are utilized. Until the thesis is completed, a grade of WH (withheld) is given for each section of 589 or 590 in which the student has enrolled.

4. *Thesis Research/Writing*

Conduct the thesis research and complete writing the thesis under the supervision of the thesis director and advisory committee.

5. *Thesis Defense—Draft/Manuscript*

Either a final draft or final manuscript may serve as the basis for the thesis examination/defense. A final draft must meet the following requirements:

- a) Complete in all aspects

- b) Clearly readable in letter-quality print but on inexpensive paper such as used in word processors and copy machines.
 - c) Mechanically correct. (See Items under Preparation of Final Manuscript in the Thesis Guide.)
 - d) Figures, plates and tables should be in final form, but photographs may be high quality reproductions.
 - e) Approved for content by all members of the Thesis Advisory Committee. The final manuscript is the document that is signed by the advisory committee and the associate vice president and subsequently bound. Specifications for its preparation are outlined in the Thesis Guide—Preparation of Final Manuscript.
6. *Thesis Defense—Application*
Application for the thesis examination is filed in the Graduate Office at least one week prior to the defense and no later than three weeks prior to the end of the semester. Application cannot be made until the draft/manuscript has been checked by the Graduate Office. Copies of the final draft/manuscript must be in the hands of the examining committee at least one week prior to the defense. For final drafts, at least one copy must contain original figures and plates and be in the custody of the thesis director.
 7. *Thesis Defense—Report*
Following the defense, the chair of the Thesis Advisory Committee submits the report of the examination to the Graduate Office.
 8. *Submit Thesis to the Graduate Office*
Following the thesis defense, the final manuscript, incorporating changes and corrections required by the examining committee and bearing the signatures of the advisory committee, is submitted to the Graduate Office. Five copies of the manuscript are required. After binding, two copies are retained by the library, one copy each is sent to the major department and the thesis director, and the original is sent to the student.
 9. *Binding, Shipping and Microfilming Fees*
After the final manuscript has been signed by the advisory committee, one copy should be taken to the Technical Services Office of the Steen Library for determination and payment of binding, shipping and microfilming fees. The receipt for this payment must be presented with the final manuscript at the time it is submitted to the Graduate Office.
 10. *Grades for 589/590*
When the final copy of the thesis has been approved and signed by the advisory committee, it is the responsibility of the thesis director to turn in grades for 589 and 590.

NOTE: Any publication resulting from or based on the thesis should indicate that the publication is based on the thesis completed at Stephen F. Austin State University.

Microfilming and Copyrighting of Theses

All theses and abstracts completed by graduate students at SFA are sent to University Microfilms, of Ann Arbor, Mich., for microfilming to be available worldwide. A required fee of \$45 is charged for master's thesis and \$55 for doctoral dissertation. University Microfilms publishes all master's thesis abstracts in Master's Abstracts that is distributed on a subscription basis. The abstract of a given thesis is restricted to 150 words. Mathematical formulas and other illustrated materials in the abstract are equated to the number of words which will occupy the space in determining its length. The author

retains the right to publish all or any part of the thesis by any means at any time, except by reproduction from a negative microfilm.

The author wishing to register a copyright on a thesis must pay an additional fee of \$45. However, if the thesis contains extensive use of material copyrighted by another author, the author of the thesis must certify that the material is used with the written permission of the other copyrighted author.

Copy quality must be acceptable to the Graduate Office. Copies secured through University Printing Services are 10 cents per page. The usual fee for binding is \$7.50 per volume. Shipping costs are calculated at \$2.50 per each copy to be shipped off campus after binding. The student initiates the process of microfilming, copyrighting and binding through the Technical Services Office of the Steen Library.

Final Comprehensive Examination

Each degree program has a culminating requirement for students' final semester or summer session of work. In most programs the requirement will be a comprehensive examination over the major field and, if applicable, the minor field, but instead of a comprehensive examination some programs specify a final requirement such as passing a national test or completing a capstone course. When a student enrolls in a program, the program's graduate adviser or department chair will provide a written description of the culminating requirement and of how to qualify for and pass (or reattempt) it. **The student must be registered during the semester or summer session in which he or she satisfies the culminating requirement.** In programs with a comprehensive examination, the examining committee will consist of graduate faculty members appointed by the relevant department, and if the student has a minor of 12 or more hours in another department, the major department must offer the minor department the option to participate in the examination. The deadline for reporting the results of a student's comprehensive examination or other culminating requirement is shown in the calendar elsewhere in this bulletin. A student who fails to satisfy the culminating requirement within the time frame or after the maximum number of retakes specified by the graduate program or allowed by Graduate School policy will not be awarded the degree.

Qualifying for Degrees, Diplomas and Transcripts

Completion of all degree requirements listed in the appropriate Graduate Bulletin and within the time limitation specified qualifies a student for graduation. To graduate at a designated time, however, the student must **apply for the degree at the Graduation Office** and pay all graduation fees. Following that and the commencement exercises, the degree and diploma will be conferred upon the student.

A student who has a reasonable possibility of completing degree requirements may apply for the degree and attend commencement exercises. The commencement program lists "candidates" for degrees. The appearance of a student's name on the commencement program and the fact that the student attends the commencement exercises, however, is no guarantee that the degree and diploma will be conferred. To receive both degree and diploma, the student must satisfy all degree requirements within the specified time limits.

A student who applies for a degree and pays the graduation fee for a given commencement, but who fails to meet degree requirements, must reapply for graduation and pay graduation fees again.

Final official transcripts are issued only upon completion of all degree requirements.

No transcript carrying graduate course credit will be issued to a student who has failed to be admitted to Graduate School.

Grades

A – Excellent	F – Failing
B – Average	W – Withdrew
C – Fair	WF – Withdrew failing
D – Poor, not applicable as credit toward graduate degree	WH – Withheld
P – Passing	WP – Withdrew passing
	QF – Quit Failing

A grade of **A** for a semester gives the student four grade points per semester hour; **B**, three grade points per semester hour; **C**, two grade points per semester hour; and **D**, one grade point per semester hour. A grade of **D**, however, makes the course ineligible for application toward the graduate degree.

A grade of **WH** is assigned only when the completion of the work is not possible because of circumstances beyond the control of the student. A grade of **QF** is assigned only when the student quits attending classes without officially dropping the course. In the case of the awarding of a **WH** grade, the work must be completed within a calendar year or the grade automatically becomes an **F**. Exceptions to that regulation are thesis research and writing courses (589, 590, 591) in which the work is permanently awarded a **WH** grade until the thesis is completed. A student may not receive a grade of **WH** upon dropping a course.

To graduate, a student may not discard any courses in the major or the minor in order to improve the grade point average.

All courses, except those repeated, in the major and minor are computed in the grade point average. No course with a grade below **C** can be used to satisfy degree requirements. A student may repeat a maximum of six semester hours of work to raise the grade point average. In the case of these repeated courses, the higher grades only will be used in the computation of grade point averages, according to university policy.

Electives may be taken outside the major and minor, and only those selected to complete the degree will be counted in the grade point average.

Withdrawal from the University

A student who withdraws from a course after the date stipulated in the calendar elsewhere in this bulletin will receive a grade of **WP**, if passing, or **WF**, if failing. No student may drop a course after the terminal date stipulated in the calendar elsewhere in this bulletin. A student who ceases to attend classes without officially withdrawing from the courses or the university is subject to being awarded grades of **F** or **QF** in such courses. Application for withdrawal from a course or from the university must be initiated in the Office of the Registrar. A student discontinuing courses without

permission or persisting in continued absence from duties, either in study or research, may be withdrawn from the university at the discretion of the academic dean. In such an instance, the student is subject to being awarded grades of F in all courses.

Any student who withdraws from or otherwise leaves the university without clearing his/her financial record, i.e., without having returned borrowed books and equipment, paid any outstanding university traffic fines, and settled other financial matters with the university, will be subject to the following sanctions until such time that the record is cleared.

1. The student will not be permitted to re-enroll.
2. The student will not be eligible to receive a transcript of academic work completed.
3. The student will not be permitted to graduate.

Student Course Loads

A full load for a graduate student during a semester is nine semester hours, and the maximum load is 15 semester hours. A full load during a six-week summer session is three semester hours and the maximum is six hours. Students who register for an overload without the academic dean's prior approval will not be allowed to count the overload course toward their degree. A student in a thesis program must register for the thesis research and writing courses (589, 590, 591, 698, 699) each semester until the work is completed or the program abandoned. Credit for master's degree thesis research and writing courses, however, is awarded only one time, and enrollment in these courses is not counted in determining the maximum course load for a semester or summer session. Credit for doctoral dissertation research and writing courses is variable.

A student on a graduate assistantship during a semester is required to enroll for a minimum of nine semester hours of graduate work. Should a graduate assistant fall below the nine-hour minimum for a semester, he or she will not be eligible for an assistantship the following semester.

Except for the Ed.D., Ph.D. and M.F.A. programs, graduate assistantships are usually limited to four semesters.

Continuation in the Graduate School

To remain in good standing in Graduate School and to graduate, a student must maintain a B average. During any semester or summer session that the grade point average falls below a B, the student with clear admission to graduate study will be placed on academic probation; the student with probationary admission will be placed on academic suspension. A student placed on academic probation and failing to restore an overall B average the following semester or summer sessions will be placed on academic suspension. Students on suspension may appeal to their academic dean for permission to enroll for one semester or for one or both of the next summer sessions. A student placed on academic suspension is denied the continuation of an academic program as well as the privilege of registering for course work. This suspension period is for one semester or one summer session, whichever follows the period after which the suspension occurred. Thereafter, the student will revert to post-baccalaureate admission status and will be permitted to take course work not applicable toward a degree program. To be reinstated to a degree program, the student

must be recommended by the appropriate academic department and approved by the academic dean, the Graduate Council and the associate vice president.

Adding and Dropping Courses

Deadlines for adding or dropping courses and for all other registration procedures are shown by semester or summer session in the calendar elsewhere in this bulletin.

Auditing Courses

Students may audit regular academic courses offered on campus on a space-available basis and with permission of the instructor. Only graduate students may audit graduate classes. Auditing gives the student the right to attend class but not to engage in discussion, take examinations or receive credit. Under no circumstances will a student be permitted to audit an individual study course. Audited courses are not shown on the transcript. (See the section on fees for the cost of auditing courses.)

Master's Degree Requirements

General requirements for the M.A., M.Ed. and M.S. degrees are shown below. Additional requirements for the Master of Science in the natural sciences, the Master of Forestry, the Master of Science with majors in forestry or natural resources, the Master of Professional Accountancy, the Master of Public Administration, the Master of Social Work, the Master of Fine Arts, the Master of Business Administration, and the Master of Interdisciplinary Studies degrees are shown elsewhere in this bulletin. Students should consult with the graduate adviser in their programs to determine specific degree requirements.

The general requirements for the master's degrees:

1. The master's degree without thesis requires a minimum of 36 semester hours of course work. The master's degree with thesis requires a minimum of 30 semester hours (with some exceptions which require 36 hours) including three hours each for thesis research and writing.
2. If a graduate minor and/or electives are approved, the graduate major is minimally 18 semester hours and must total more hours than does the minor. The graduate minor is minimally nine semester hours. A maximum of six semester hours may be in electives.
3. Excluding the M.B.A., M.S.W., the Master of Forestry and the Master of Professional Accountancy degree, to major or to take a minor of 15 semester hours in an academic field, the student must present an undergraduate background of at least 18 semester hours in that field or in closely related work.
4. With the approval of the major department and of the academic dean, a student may transfer from another accredited graduate school up to six semester hours of graduate work toward a master's degree with a thesis and up to 12 semester hours toward a non-thesis master's degree. Transferred work must be completed with a grade of B or better and will be accepted only for credit toward a graduate degree at SFA and not for purposes of raising the grade point averages earned at SFA. The work must have been taken not earlier than six years prior to the student's first graduate enrollment at SFA. Moreover, if the student fails to complete work

- on the graduate degree at SFA before the expiration of the six years, the work will not be applicable toward a degree here. The transcript must clearly show the course(s) to be transferred was(were) taken for graduate credit.
5. Course work used to satisfy requirements for a previous master's degree (whether taken at SFA or elsewhere) may not be used to satisfy requirements for a second master's degree at SFA.
 6. Under certain circumstances, an undergraduate student may simultaneously pursue work toward the baccalaureate and master's degrees. See the Overlap Program elsewhere in this bulletin.
 7. To earn a graduate degree, a student must have graduate grade point averages of 3.0 on a 4.0 scale in both the major and overall. The computation of the overall grade point average includes all courses in the major and minor and those elective courses selected to complete the degree requirements. In the case of repeated courses (a student may repeat a maximum of six semester hours of work to raise the grade point average), only the higher grades will be used in the computation of grade point averages according to university policy. No course with a grade below C can be used to satisfy degree requirements.
 8. Work offered for the graduate degree should be in courses numbered 500 and above. In certain circumstances, a student may take a maximum of nine semester hours of 400-numbered courses carrying graduate credit toward a non-thesis degree and six semester hours of 400-numbered courses carrying graduate credit toward a thesis degree. Not all 400-numbered courses are approved for graduate credit. Students should first check the departmental offerings located elsewhere in this bulletin.
 9. With the exception of the M.F.A., no more than two Advanced Graduate Studies (575 and 576) courses or a total of eight hours may count toward any master's degree without special permission of the academic dean.
 10. At least 24 semester hours of graduate work must be completed in residence (including on-campus, off-campus, distance education, field-based, practicum, internship and thesis courses), and at least half of the work in the major and in the minor must be completed in residence.
 11. In addition to satisfying all course work for the graduate degree, the student must satisfy all other requirements, including the final comprehensive examination and, if applicable, the thesis.
 12. **All work on a graduate degree must be completed within six years of the time the student first enrolls in graduate courses, whether the courses are taken here or elsewhere. For exceptions, see the statement (above) on the limitation of time.**

Master of Business Administration Degree

Admission and program requirements for the M.B.A. degree program are described in the College of Business Section of this bulletin.

Master of Professional Accountancy

Admission and program requirements for the M.P.A. degree program are described in the College of Business Section of this bulletin.

Master of Science in Athletic Training

The Master of Science Degree with a major in athletic training is designed to prepare the entry-level athletic training student to become eligible for the Board Certification national examination in order to practice as an allied health professional holding the title of Certified Athletic Trainer (A.T.C.).

Admission and program requirements are described in the Department of Kinesiology and Health Science section of this bulletin. The Department of Kinesiology and Health Science is in the College of Education.

Master of Science Degree in the Natural Sciences

The Master of Science degree, with a major in the natural sciences, is designed to provide broad subject matter training in the natural sciences at the graduate level. It is intended especially for the high school science teacher and others who wish to increase their subject matter proficiency without limiting their studies to a single departmental program.

In order that a student who has not majored in science on the undergraduate level may enter the program, both undergraduate and graduate work are considered in the degree plan. The minimum requirements for the degree are as follows:

1. A minimum of 36 semester hours of graduate course work or a minimum of 24 semester hours of graduate course work and the thesis research (589) and writing (590) courses for a total of 30 semester hours of graduate work.
2. A combination of 70 semester hours of graduate and undergraduate course work, at least 30 semester hours of which must be in one field in natural science and of which either 24 semester hours must be in a second natural science field or 15 semester hours each must be in a second and third natural science field.
3. A maximum of 12 semester hours of graduate work from non-science areas may be counted, provided the 70 semester hours of undergraduate and graduate natural science (item 2) are met.

Master of Interdisciplinary Studies Degree

The Master of Interdisciplinary Studies degree is a 30- to 36-hour program with no major or minor and no more than 12 hours in any department,* which allows students to study a program in which more than two traditional existing academic disciplines overlap. Individual programs, created by the students and their graduate advisers, will include no fewer than three disciplines (with no more than 12 hours in any one) and no more than six disciplines (with at least four disciplines providing no fewer than six hours each). This program is founded upon the idea that there is a need for a practical interdisciplinarian—a specialist in the interrelationship of traditional specializations.

For the purpose of this degree and this program, political science and geography are considered to be separate departments. In the College of Business, the available areas are computer science, management and general business. The General Business area consists of nine to 12 total hours from at least three different subject areas in the College of Business, and an M.I.S. student may not choose both management and

* For the purpose of this program, all departments in the College of Business except for the Department of Computer Science are considered to be a single department.

general business as separate areas.

The usual admission standards for other graduate degree programs at Stephen F. Austin State University apply to those seeking the M.I.S. In addition, the applicant must appear for a personal interview with the dean of the College of Applied Arts and Sciences.

The student will select one of two academic options to be followed:

I. Thesis Option:

- A. 24 hours of course work
- B. Three hours of thesis research and three hours of thesis writing
- C. Exam: written and oral comprehensive, including defense of thesis

II. Non-Thesis Option:

- A. 33 hours of course work
- B. Three hours of Directed Studies Seminar. The product of this seminar will be a paper demonstrating the student's grasp of the interrelatedness of the disciplines that student has studied.
- C. Exam: written and oral comprehensive including defense of a major essay question to be researched prior to the exam.

Further information may be obtained from the dean of the College of Applied Arts and Sciences.

Master of Fine Arts Degree

The Master of Fine Arts degree is a terminal degree offered only by the Department of Art. As indicated below, it builds both on the baccalaureate and master's degrees and thus has different admission and degree requirements from the master's degree.

Admission Requirements

Admission requirements for the Master of Fine Arts degree include those described earlier for master's degrees, as well as the following:

1. Ordinarily, the completion of 76 semester hours of work in art studio and 12 semester hours of work in art history. Under all circumstances, an applicant must present either a master's degree or 30 graduate hours in art, completed with a grade point average of 3.2 or higher (on a 4.0 scale).
2. The achievement of acceptable scores on the General Test of the Graduate Record Examination.
3. The acceptance by the Committee on Graduate Studies of the major department.
4. The presentation of examples of creative work (or photographic facsimiles) or an audition or whatever other evidence of accomplishment is required by the major department.

An applicant lacking suitable background will be required to remove deficiencies.

Additionally, as part of the admission procedure for the M.F.A. degree program, the applicant must have a preliminary degree plan made and approved by the director of the School of Art, and the dean of the College of Fine Arts.

** It is assumed the combination of baccalaureate and graduate credit hours will be approximately 100 hours in studio and 24 hours in art history and theory.*

M.F.A. Degree Requirements

Complete information concerning requirements for the Master of Fine Arts degree may be secured from the director of the School of Art. A summary of the basic requirements, however, follows. The student must:

1. Satisfactorily complete a minimum of 60 semester hours of graduate work past the baccalaureate degree. In this regard, the real basis for completion of the M.F.A. degree work will be mastery of the field. However, normally a minimum of 60 semester hours of course work beyond the baccalaureate degree, *including 30 semester hours of work beyond the master's degree, is required. Minimum course work must include:
 - a. 15 semester hours of art history.
 - b. 15 semester hours of concentrated studies in a major studio area of art.
 - c. Nine semester hours of concentrated studies in a minor studio area of art.
 - d. 12 semester hours of studio electives.
 - e. Three semester hours of approved electives. These electives may be either in a studio or other area supportive of the student's program of study.
 - f. Six hours of thesis.
2. Satisfy residence requirements.
3. Pass the comprehensive examinations. All M.F.A. candidates must pass both the M.A. written examination and the M.F.A. thesis exhibition of defense.

Time Limit

All work for the Master of Fine Arts degree must be completed within six years of the time the student is first enrolled in the M.F.A. degree program. An extension of one year may be requested, and under rare circumstances, additional extensions may be granted with the approval of the director of the School of Art, the dean of the College of Fine Arts, and the associate vice president for graduate studies.

If a student serves on active duty with the armed forces of the United States between the dates of matriculation and graduation, the six-year limitation will be extended one year for each year of active duty up to a maximum extension of four years.

Master of Science and Master of Forestry

The M.S. program requires a minimum of 24 semester hours of graduate course work and six semester hours of thesis research and writing for a total of 30 semester hours. This degree program allows students to obtain a specialized advanced degree in any of the subject areas within the Arthur Temple College of Forestry and Agriculture (ATCOFA), including forest management, forest economics, recreation management, resource interpretation, wildlife management, agroforestry, wood science, urban forestry, forest entomology, hydrology, forest ecology, silviculture, soil science and spatial science. The M.S. degree program is appropriate for students who have an undergraduate degree in forestry or a related field and also for students with degrees in other areas. The M.S. degree program in resource interpretation is a cooperative program under a Memorandum of Understanding between the National Park Service and SFA to provide a graduate degree in resource interpretation by distance learning. For all programs, students without an appropriate background may be required to take additional course work as required by their major professor and advisory

committee (subject to approval by the dean of the College of Forestry and Agriculture). Background work may include courses in each of the following areas: forest biology, forest resources inventory, social forestry, forest ecosystem management and forest resources administration.

The M.F. degree program is a non-thesis cooperative program between the Colleges of Forestry and Agriculture and Business and requires a minimum of 38 semester credit hours of graduate coursework. This degree is intended for professional foresters with at least five years of experience who wish to further their education in the areas of business, forest management or forest economics. A final comprehensive exam (either written, oral or both) is required during the last semester of enrollment.

Admission Requirements/Procedures

Admission Requirements for the M.S. and M.F. include all of those described earlier for a master's degree as well as the following.

1. For clear admission, an applicant must have an overall grade point average (GPA) of 2.8 and a GPA of 3.0 in the last 60 hours of undergraduate work (each on a 4.0 scale) and a minimum composite score on the Verbal and Quantitative sections of the Graduate Record Exam (GRE) of at least 900.
2. Students not meeting the above admission criteria may be admitted with probationary status if they have an overall undergraduate GPA of at least 2.5 and at least a 2.5 GPA on the last 60 hours of undergraduate course work (each on a 4.0 scale) and a composite score on the Verbal and Quantitative sections of the GRE of at least 800.
3. Provisional admission may be available for students who are unable to provide all of the required documentation prior to the first semester of enrollment, but who based on previous academic performance appear to meet the requirements for clear admission (2.8 overall and GPA of 3.0 on last 60 hours of undergraduate work).
4. Admission to either the M.S. or the M.F. program also is contingent on a graduate faculty member in the ATCOFA agreeing to serve as the student's major professor. It is recommended that prospective students contact potential major professors before proceeding with the application process.
5. An applicant must submit all forms (available from the Graduate Office or can be accessed via the SFA Web site), official transcripts, required test scores and the \$25 application fee to the Graduate Office, P.O. Box 13024, SFA Station, Nacogdoches, TX 75962. Foreign students need to also include the International Student Admission form that is available from the Admissions Office or available via its Web site.
6. In addition, the applicant must send a copy of the above packet of materials, excluding the application fee, along with a letter of application and two letters of reference to the Associate Dean, Arthur Temple College of Forestry and Agriculture, P.O. Box 6109, SFA Station, Nacogdoches, TX 75962-6109. The letter of application must indicate the potential major professor as well as the applicant's area of academic and research interest within the field of forestry. The reference letters should be from individuals having knowledge of the applicant's academic and research potential.
7. Exceptions to the above admission requirements may be made on the

recommendation of the Graduate Council in the ATCOFA to the dean of the College of Forestry and Agriculture following a written appeal by the applicant to the Graduate Council.

8. Graduate assistantships may be available to qualified applicants; application forms are available via the ATCOFA Web site. Teaching assistantships are generally awarded only to applicants who have a background that would enable them to assist with undergraduate forestry courses. Research assistantships are available only if potential major professors have funded research projects that will cover the graduate stipend. Assistantships are not available to students who enter graduate study on probationary or post-baccalaureate status.

Advisory Committee

Immediately after admission and enrollment for the first semester of course work, the student must consult his/her major professor and develop an advisory committee. This committee will consist of no fewer than three members of the graduate faculty; two must be from the ATCOFA. The advisory committee, chaired by the major professor, will then assist the student in the development of a degree plan that includes the required background courses and the graduate course work needed for the field of interest of the student. This degree plan should be filed with the associate dean during the first semester of course work. Subsequent duties of the advisory committee are to assist the student in the development of a formal research proposal (applicable only to M.S. students) that should be completed prior to initiating the research activity and to serve as the examining committee. It is the student's responsibility to ensure that all paper work is completed prior to all deadlines as stipulated in the university calendar.

Master of Social Work

The Master of Social Work (M.S.W.) degree is a 64-credit hour program with a concentration in Advanced Generalist Practice in a rural context. This concentration develops the knowledge, skills and values necessary to perform social work with individuals, families, groups, organizations, and communities in rural environments and with rural populations. The M.S.W. includes preparation for services provision for a wide range of problems and systems, such as rural poverty, community development, social and economic justice, family violence, health and mental health, and other fields.

The M.S.W. is designed to prepare graduates for entry into the social work profession at the advanced level. The M.S.W. will provide the basis for the development of autonomous practice skills for leadership roles in rural communities.

The M.S.W. is designed to be completed in two years of full-time or four years of part-time academic study. The program does not require an undergraduate degree in social work for admission, but does require that students who are deficient in the liberal arts perspective complete additional course work in order to prepare them for the professional foundation. Part-time students must complete the program within four years from the date of enrollment at SFA.

In order to be considered for admission to the M.S.W. program, applicants must submit: 1) an SFA graduate school application; 2) scores from the Graduate Record Examination; 3) official transcripts; 4) three letters of reference; 5) a supplemental application for the M.S.W. program; and 6) a written statement of interest in social work. Application forms may be obtained from the School of Social Work or the SFA

Graduate Office. Applications should be returned to the SFA School of Social Work.

To be considered for clear admission, applicants should present evidence of a GRE score of 1000 (combined Verbal and Quantitative scores) **or** an overall GPA of at least 2.8 and a GPA of 3.0 over the last 60 hours. Applicants who demonstrate outstanding qualifications on other admission criteria may be admitted on a probationary basis with GRE scores of 800 **or** an overall GPA of 2.6 and 2.8 GPA over the last 60 hours. All applicants are required to present GRE scores prior to admission, regardless of grade point average.

A limited number of students may be admitted to the advanced standing program. To be considered for advanced standing, applicants must have earned a bachelor's degree in social work from a program accredited by the Council on Social Work Education. Applicants admitted on probationary status are not eligible for advanced standing.

To receive advanced standing an applicant must have made a minimum GPA of 3.0 in the last 60 credits of undergraduate course work. Advanced placement credit will be given for course equivalents in which the applicant has made a grade of either A or B.

Decisions on course equivalency credit will be made by the school M.S.W. director. Advanced placement credit may be given for SWK 500, SWK 501, SWK 502, SWK 505, SWK 507, SWK 512, SWK 515, SWK 519 and SWK 529. Advanced standing credit is not automatic, and students may be required to successfully complete a competency examination before receiving credit for a course. All students who receive advanced standing must complete a minimum of 38 credit hours in order to receive the M.S.W. Students admitted with advanced standing begin their studies in the second summer session, before the fall semester begins.

Students may transfer graduate course credits under the policies of the university. Transfer of courses for social work equivalency will be determined by the M.S.W. program director. To be considered for social work equivalency, a course must be: 1) graduate level; 2) earned from a program accredited by the Council on Social Work Education; 3) no more than six years old; and 4) have an earned grade of A or B. Field Instruction credit will not be awarded for prior work experience. Graduate courses from other disciplines may not be considered for transfer credit as electives.

Doctor of Philosophy in Forestry (Ph.D.)

The Ph.D. in forestry symbolizes the mastery of a special field of learning and indicates the ability of the recipient to independently complete original research and the highest levels of scholarly work. The recipient must demonstrate a comprehensive knowledge of the specialized field by successful completion of a prescribed course of study, planning and conducting original research, preparation and defense of a well-written dissertation, and passing qualifying and final examinations. The Ph.D. in forestry is a research degree awarded in recognition of the student's ability to think and work independently as a scholar and to contribute to society by conducting original research in a chosen field of natural resources.

Admission Requirements/Procedures

The Arthur Temple College of Forestry and Agriculture (ATCOFA) and the associate vice president for graduate studies determine admission to the Ph.D. in forestry degree program. Admission forms are available from the Graduate Office or can be accessed via the SFA Web site. The completed application form, official transcripts, required

Graduate Record Exam scores and the \$25 application fee should be sent directly to the Graduate Office, P.O. Box 13024, SFA Station, Nacogdoches, TX 75962.

In addition, a copy of this application packet, excluding the application fee, along with a letter of application and two letters of reference should be sent to the Associate Dean, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, P.O. Box 6109, SFA Station, Nacogdoches, TX 75962-6109. The letter of application should identify the potential major professor and the intended field of research/academic interests. The letters of reference must be from individuals having knowledge of the applicant's academic and research potential. An applicant from a foreign country must meet the same requirements for admission as a student from the United States. Foreign students need to also include the International Student Admission form that is available from the Admissions Office or available via the Admissions Office Web site. If the applicant's primary language is not English, then the applicant must present a minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL) or a score of 213 on the computer-based TOEFL. To be admitted to the Ph.D. in forestry degree program, an applicant must:

1. Hold or qualify for a master's degree in an appropriate area of knowledge from an accredited graduate college or university.
2. For clear admission, the applicant must have a minimum GPA of 3.5 (on a 4.0 scale) on the master's degree coursework and a minimum composite score on the Verbal and Quantitative sections of the Graduate Record Exam (GRE) of 1000. Clear admission may be granted if the GPA is less than 3.5, provided that the composite Verbal and Quantitative GRE score exceeds 1100. Clear admission also requires that a Graduate Faculty member in the ATCOFA agrees to serve as the applicant's major professor. It is recommended that prospective students contact potential major professors before proceeding with the application process.
3. Probationary admission may be granted to students who do not meet the above GPA and GRE score if a major professor can be identified. Probationary students can be admitted to clear admission by earning a 3.5 GPA on a minimum of 12 hours of approved graduate-level course work.
4. Exceptions to the above admission requirements may be made on the recommendation of the Graduate Council in the ATCOFA following a written appeal by the applicant to the Graduate Council.
5. An applicant for admission to the Ph.D. degree program must submit all of the required forms, test scores and fees and be officially notified of admission prior to taking any course work in the program.
6. Students not having an undergraduate forestry degree will be required to complete background courses at the undergraduate level as part of their graduate program. Background coursework must include courses in each of the following areas: forest biology, forest resource inventory, social forestry, forest ecosystem management and forest resources administration. Specific courses to meet these subject area requirements will be selected with the advice and approval of the major professor and the advisory committee, subject to approval by the dean of the ATCOFA. To ascertain weakness in his/her background that may require additional background courses, the applicant may be required to take an examination over areas of knowledge within the Ph.D. degree program.
7. Graduate assistantships may be available to qualified applicants; forms are available via the ATCOFA Web site. Teaching assistantships are generally

awarded only to applicants who have a background that would enable them to assist with undergraduate forestry courses. Research assistantships are available only if potential major professors have funded research projects that will cover the graduate stipend. Doctoral assistantships are only available to Ph.D. students who enter graduate study with clear admission.

Transfer of Credit on Ph.D. in Forestry Degree

Courses for which transfer credit is sought must have been completed with a grade of B or better and must be approved by the student's advisory committee and by the associate vice president for graduate studies and research as applicable toward the Ph.D. in Forestry degree. Credit for dissertation research or writing or the equivalent is not transferable; course work taken at foreign colleges and universities is not normally transferred; and courses may be transferred only for credit and not for grade points. No more than nine graduate transfer hours will be accepted toward a Ph.D. in forestry degree.

Advisory Committee

Immediately after admission and enrollment for the first semester of course work, the student must consult with his/her major professor and develop an advisory committee. This committee will consist of no fewer than four members of the graduate faculty. One of the members must be from outside the ATCOFA. The advisory committee, chaired by the major professor, will then assist the student in the development of a degree plan that includes the required background courses and the graduate course work needed for the field of interest of the student. This degree plan should be filed with the associate dean during the first semester of course work. Subsequent duties of the advisory committee are to assist the student in the development of a formal research proposal that should be completed prior to initiating the research activity and to serve as the examining committee. It is the student's responsibility to ensure that all paper work is completed prior to all deadlines as stipulated in the university calendar.

Ph.D. in Forestry Degree Requirements

Complete information concerning the requirements for the Ph.D. in forestry degree may be secured from the dean of the ATCOFA. A summary of the basic requirements follows:

Courses

Beyond the master's degree, a student must complete a minimum of 30 semester hours of graduate course work, 30 credit hours of dissertation research and writing courses and a research tool of at least six hours.

Research Tool

Prior to admission to candidacy, the student must demonstrate competence in at least one research tool in collaboration with the advisory committee. Approved research tools include: Statistics (6-9 hours), Computer Science (6-9 hours), Foreign Language (6-9 hours) or examination, or other research tools recommended by the student's advisory committee. Although a student's native tongue is not acceptable as a foreign language research tool, a student whose native tongue is not English may use

English as a foreign language. In such a case the student will demonstrate proficiency by a score of 550 or greater on the paper-based version of the Test of English as a Foreign Language (TOEFL) or a score of 213 or greater on the computer-based TOEFL.

Graduate courses required for achieving proficiency in a research tool may not be counted in the total hours for the degree and each must be completed with a grade of B or better.

Residency Requirement

The residency requirement is assurance that the student has opportunities to benefit from the advantages of a university environment. The minimal residency is one academic year of study on the main campus. One academic year is nine semester hours of graduate course work taken each term in any two of the following three sessions: fall semester, spring semester, and summer (comprised of both summer I and summer II terms).

Time Limit

No terminal time limit is imposed for the doctoral degree. If the degree is not completed within three years after admission to candidacy, the candidate's work is subject each year thereafter to an annual review by the advisory committee. The committee may recommend new requirements adopted in the interim, additional course work or termination of candidacy. Recommendations of the advisory committee are forwarded through the dean of the ATCOFA to the associate vice president for graduate studies and research.

Qualifying Examination

The Qualifying Examination (required of all students within approximately six semester hours of completing the formal course work specified on the official degree plan) determines the student's mastery of the subject matter in all fields of his/her program and helps to determine whether he/she is to be admitted to candidacy for the Ph.D. in forestry degree.

Before the examination, the advisory committee chair submits a schedule for the examination to the associate vice president for graduate studies and research. When the associate vice president for graduate studies approves the schedule, a graduate faculty representative to the student's examination committee will be appointed. The examination committee is chaired by the student's advisory committee chair and is comprised of the advisory committee and the appointed graduate faculty representative. Formal announcement of the Qualifying Examination must be received in the office of the associate vice president of graduate studies no less than one week prior to the date of the first scheduled written examination. Unless otherwise recommended by the Examination Committee and approved by the associate vice president for graduate studies and research, the examination shall be both oral and written. Credit for the Qualifying Examination is not transferable and both written and oral parts must be completed within a length of time approved by the associate vice president for graduate studies and research, usually not to exceed four weeks.

The written part of the examination will cover each area of study included in the student's program. Each member of the student's advisory committee will be responsible for administering a written examination in a particular area of the student's program.

If any written examination is reported unsatisfactory, the entire examination

committee must agree (subject to the approval of the associate vice president for graduate studies and research and dean of the ATCOFA) (1) to proceed to the oral portion of the Qualifying Examination or (2) to another course of action. All written portions of the examinations will be made available to all members of the examination committee before proceeding to the oral part of the examination.

After the oral examination, the chair of the examination committee will report in writing to the associate vice president for graduate studies and research and dean of the ATCOFA the results of the Qualifying Examination and the examination committee's recommendation on admission to candidacy. No student is admitted to candidacy without satisfactorily completing all parts of the Qualifying Examination. By permission of the advisory committee and of the associate vice president for graduate studies and research, a student who has failed the Qualifying Examination may be given one re-examination after six months following his/her first attempt.

Upon successful completion of the Qualifying Examination, the student has three calendar years to complete all remaining degree requirements before being required to repeat the Qualifying Examination.

Admission to Candidacy for Ph.D. in Forestry Degree

To apply for admission for candidacy a student must have completed the following:

- * Formal course work on degree plan;
- * Filed a dissertation proposal approved by the advisory committee, the dean and the associate vice president for graduate studies and research.
- * Passed the Qualifying Examination.

After the advisory committee has formally recommended the student for admission to candidacy, the associate vice president for graduate studies and research will notify the student of his/her admission to candidacy for the Ph.D. in forestry degree. The student must have been admitted to candidacy at least one semester before the degree is conferred.

Dissertation and Final Examination

Required of every candidate for the Ph.D. in forestry degree, the dissertation is a work of creditable literary workmanship, independent investigation in the candidate's major area of study and an original contribution to scholarship. The format of the dissertation must follow the Thesis Guide, a manual describing the "Procedure for the Preparation of Master's Theses and Doctoral Dissertations" which is available in the Barnes & Noble University Center Bookstore and on the Graduate School Web site.

No student is permitted to register for dissertation writing before having been admitted to candidacy for the degree. As soon as his/her research project can be carefully reviewed and approved by his/her advisory committee, his/her research proposal for the dissertation should be submitted to the associate vice president for graduate studies and research for final approval. A student must be registered for the appropriate dissertation course in any semester that he/she expects to receive faculty advice on and assistance in the preparation of his dissertation.

By the date indicated in the current Graduate Bulletin, the candidate must submit to the Graduate School:

1. Five copies of the dissertation in final form, incorporating all suggestions and corrections by the candidate's advisory committee.
2. A completed Application for Dissertation Examination. The Application for Dissertation Examination schedules the Final Examination and should be submitted

at least two weeks before the proposed date for the examination.

3. Receipt for payment of fees to the university library for binding, shipping and microfilm reproduction.

Not later than the date specified in the current graduate catalog, the candidate for the Ph.D. in forestry degree must pass the Final Dissertation Examination, conducted by the student's examination committee after each committee member has had time to examine the dissertation. Other interested faculty members may attend the examination without vote. The dissertation and student's performance on the final oral examination must be approved by a positive vote of at least three-fourths of the voting examiners. After the Final Examination, the examination committee will complete the Report of the Dissertation Examination.

Following passage of the Final Examination, the five copies of the dissertation signed by the committee will be presented with the Report of the Dissertation Examination for the approval of the associate vice president for graduate studies and research. The Report of the Dissertation Examination when signed by the Examination Committee is the committee's guarantee that the candidate has completed the work assigned by the committee; passed all examinations required by the department, including the final orals; completed a dissertation that reveals creditable literary workmanship, independent investigation in the candidate's major area of study, and is itself an original contribution to scholarship; and submitted for publication in Dissertation Abstracts an abstract approved by the committee.

English Proficiency

A candidate for the Ph.D. in forestry degree must be able to use spoken and written English to the satisfaction of the advisory committee. The student deficient in such usage must take additional course work or other steps the advisory committee recommends.

Application for the Ph.D. in Forestry Degree

Application for the Ph.D. in forestry degree must be filed in the Graduation Office by the deadline indicated in the current Graduate Bulletin. A student must be formally registered at SFA for the semester or summer session at the end of which the degree is to be conferred.

Doctor of Education with Emphasis in Educational Leadership

The Doctor of Education with emphasis in educational leadership is a terminal degree offered by the Department of Secondary Education and Educational Leadership in the College of Education. The purpose is to provide advanced preparation in educational leadership and a specific focus on the leader as a scholar-practitioner. It is specifically designed to prepare leader-practitioners in advanced leadership, with courses in leadership theory and practice; educational research; ethics and philosophy; organizational, system, and human dynamics; and synthesis applied to public school leadership. As indicated below, the Doctor of Education in leadership builds on a master's degree and 18 hours of completed course work in educational leadership or a related field and thus has admission and degree requirements from lower-level graduate degrees.

Admission Requirements

Admission to the Doctor of Education with emphasis in educational leadership degree program is determined by the Doctoral Faculty Council within the Department of Secondary Education and Educational Leadership and the Graduate School. To apply, an applicant should:

- obtain application forms from the Department of Secondary Education and Educational Leadership;
- obtain application forms from the Graduate School;
- fill out the forms and complete all required application materials and fees and append to them the necessary undergraduate and graduate degree transcripts, as well as scores of the General Test of the Graduate Record Examination (GRE); and
- return all forms and credentials respectively to the Department of Secondary Education and Educational Leadership and the Graduate School. A letter of application indicating academic and professional interests should be sent directly to the doctoral program coordinator in the Department of Secondary Education and Educational Leadership. A list of references should be included with the letter of application as outlined in the application forms. To be considered for admission to the Doctor of Education with emphasis in educational leadership degree program, an applicant must:
 - hold a master's degree in a related field of study from an accredited graduate college or university;
 - have completed 18 hours of graduate coursework in educational leadership or a related field from an accredited graduate college or university;
 - demonstrate the capacity and capability with at least a 3.5 (4.0 scale) average of course work completed for the master's degree;
 - successfully have completed within the last 10 years a composite score in the range of 1000 on the Verbal and Quantitative sections of the GRE;
 - have completed a professional leadership profile as outlined in the application forms;
 - have successfully delivered a professional presentation to the Doctoral Faculty Council as part of the application process;
 - have successfully participated in an interview process conducted by members of the Doctoral Faculty Council; and
 - be admitted to the degree program by the Doctoral Faculty Council.

An applicant from a foreign country must meet the same requirements for admission as a student from the United States.

If any applicant's primary language is not English, the applicant must meet any requirements set forth by the Doctoral Faculty Council and/or present satisfactory scores on the Test of English as a Foreign Language (TOEFL) as required.

An applicant for admission to a doctoral program must submit all the required application forms and credentials and be admitted prior to taking any course work in the program.

Doctoral Research Committee

After admission to the Doctor of Education with emphasis in educational leadership degree program, and within the first year of study, the doctoral program coordinator will meet with the Doctoral Faculty Council to determine assignment of the individual student's doctoral adviser who will be a member of the Doctoral Faculty Council. The

doctoral program coordinator and the Doctoral Faculty Council will formally review each student's progress a minimum of two times: at the completion of the first year and at the completion of the second year of study. At these times, the doctoral program coordinator and Doctoral Faculty Council will determine the readiness of each student for moving forward in the program. Following the second year, and upon a successful review as determined by the Doctoral Faculty Council, a dissertation chair will be identified and appointed for each student.

Upon appointment of the dissertation committee chair, each student will meet with his/her respective chair and begin selection of the dissertation research committee members. The committee will consist of a maximum of five members with no fewer than two members of the Doctoral Faculty Council selected who are representative of the student's several fields of study and research. One member of the committee must be from outside the Department of Secondary Education and qualify for graduate faculty status. Throughout the student's program, the committee as a whole and the individual committee members are responsible for advising the student and initiating all academic actions concerning the student. The dissertation research committee will function as a formal research team, guiding the design, development and implementation of the student's dissertation research study. The committee as a whole and individually will facilitate the student in each step of the dissertation research process. The dissertation committee chair, who will hold primary supervisory responsibility for the student's research and dissertation, and the Final Dissertation Defense, will work in concert with all members of the committee to affect successful completion of all elements of the student's program, research and dissertation. The student, with approval of the dissertation committee chair, will be responsible for completing all forms related to the doctoral program and required by the department, college and university. The student, under the supervision of the dissertation committee chair, will meet all requirements for proposing her/his research to the Institutional Review Board (IRB) for review and approval prior to implementation of the research. In the case of academic deficiencies, need for withdrawal from the graduate studies program, or similar or related difficulties on the part of the student, the committee must advise the dean of the College of Education who will advise the associate vice president for graduate studies and research on the student's continuation or related conditions of the student's active role in the program.

Degree Requirements

Complete information concerning the requirements for the Doctor of Education with emphasis in educational leadership may be secured from the chair of the Department of Secondary Education and Educational Leadership or the dean of the College of Education or the Graduate School. A summary of the basic requirements follows.

Cohort Membership

The degree program is offered as a cohort design, which precludes self-selection into any required course related to the program of study. All students granted admission to the degree program will be members of a cohort and must complete all course work as a member of the cohort for which they were admitted in the related academic year of admission. In the event of withdrawal from the cohort program by the student, and upon election by the student to seek re-entry to the program, a student will meet with the Doctoral Faculty Council for review and consideration of request for continuance in the degree program.

Courses

Beyond the master's degree with completion of 18 semester hours of course work in educational leadership or a related field, a student must complete a total of at least 66 semester hours of graduate coursework. This will include work in leadership, research, philosophy and ethics, policy and politics, change theory, cultural and societal issues, field-oriented internship, and dissertation research. The student will successfully complete two courses in synthesis seminar (Synthesis Seminar I and II) designed to integrate, synthesize and evaluate the major concepts encountered in the course work completed preceding each seminar. The student must demonstrate her/his successful completion of course work as a scholar-practitioner leader, as assessed jointly by the student and the Doctoral Faculty Council through a portfolio assessment process.

Additionally, the student must present a dissertation that demonstrates an approved research study in educational leadership or a related area of educational study. The scope and breadth of the program originates from an emphasis on the leader as a scholar-practitioner.

English Proficiency

A candidate for the Doctor of Education with emphasis in educational leadership degree must demonstrate an acceptable level of verbal and written proficiency with the English language to the satisfaction of the dissertation research committee and Doctoral Faculty Council. Included in this requirement is the criteria that each candidate must satisfy the requirements of scholarly writing as determined by the assessment of the student's portfolio. In the case of a student (either international or from within the United States) failing to meet the requirements for spoken and written English and scholarly writing, the Doctoral Faculty Council will determine a course of action that may include a separate course in English as a second language, writing and/or successful completion of the TOEFL examination prior to advancing to candidacy for the Doctor of Education degree.

Synthesis of Leadership Knowledge

Prior to advancement toward and admission to candidacy, the student formally presents her/his portfolio during Synthesis Seminar I and II for review by the cohort members and assessment by the Doctoral Faculty Council. The student must demonstrate competence in successful completion of both Synthesis Seminar I and II, determined by the Doctoral Faculty Council, as a critical point of consideration for admission to candidacy. In each case, the student's work in the synthesis seminars will be evaluated at the end of each seminar. Subsequent to completion of each synthesis seminar, the Doctoral Faculty Council will review each student's overall progress in the program and make a determination on advancement in the program. The student's portfolio will be a consideration point in this review. In the case of concern on the part of the Doctoral Faculty Council related to a student's progress, the council will meet and determine an appropriate action as related to the student's case.

Portfolio

The portfolio will constitute the formal assessment process for determining a student's eligibility to move to candidacy. At intervals determined by the Doctoral Faculty

Council, the student will present her/his portfolio for review as a work in progress and to demonstrate successful progress in the student's preparation as a scholar-practitioner leader. Prior to admission to candidacy, the student must present her/his completed leadership portfolio for review by the Doctoral Faculty Council. Evidence of the student's scholarship, research and inquiry skills, academic accomplishments, and growth as a scholar-practitioner leader will be included in the portfolio. Each portfolio will contain both student-selected and faculty-selected items with the primary emphasis placed on the student for self-selecting the evidence to be reviewed in support of her/his continuation in the degree program and admission to candidacy for the Doctor of Education with emphasis in educational leadership degree.

Residency Requirement

The residency requirement is assurance that the student has opportunities to benefit from the advantage of a university environment and is directly related to a student being an active member of the cohort program. The residency will build within the structure of the cohort program and affords opportunity for students to share in common experiences and develop as members of a professional learning community. The residency requirement is completion of two consecutive semesters of nine semester hours each.

Internship

Field studies and internships are integral components of the program. Each student will be required to successfully complete two internship experiences. Each internship experience will be a field-oriented experience related to policy studies, practical inquiry and authentic activities related to educational leadership. The student, and her/his doctoral adviser, will work together in the design of each internship experience. The internship experience will be linked to the doctoral studies curriculum and the student's professional goals. At such time when it is appropriate, the doctoral adviser and doctoral student will contact the field-based entity who will host the interning doctoral student and establish necessary linkages to support the internship. At no time will the student make arrangement for an internship experience prior to the doctoral adviser's approval.

The doctoral program coordinator and the Doctoral Faculty Council will review procedures and requirements for the internship experiences, and the doctoral adviser will have primary responsibility for final approval of the internship experience. The internship proposal will be submitted to the department chair for review. Students must complete two internships in a field-oriented setting prior to admission to candidacy.

Time Limit

At the time of the student's admission to candidacy, all completed course work included in her/his degree program must have been taken within the sequence of courses for the cohort group. If the degree is not completed within three years after her/his admission to candidacy, the candidate's work is subject each semester thereafter to a review by the Dissertation Research Committee and/or Doctoral Faculty Council, at

which time a recommendation will be made concerning any new requirements adopted in the interim, additional coursework, or termination of candidacy. Recommendations of the Doctoral Research Committee and/or Doctoral Faculty Council are forwarded through the dean of the College of Education to the associate vice president for graduate studies and research.

Interim Examinations

The Doctoral Faculty Council and the Doctoral Research Committee retains the discretionary right to administer interim, cumulative, or other types of examination at any time during the degree program.

Admission to Candidacy

After the student has successfully completed all required course work filed with the dean of the College of Education, a formal review of her/his leadership portfolio by the Doctoral Faculty Council, a dissertation proposal approved by her/his Dissertation Research Committee, and the Dissertation Research Committee has formally recommended her/him for admission to candidacy, the associate vice president for graduate studies and research will notify the student of her/his admission to candidacy for the Doctor of Education with emphasis in educational leadership degree. Grades of WH present specific consequences for doctoral program students. The grade of WH could delay or deny the student acceptance to candidacy since completion of all course work is a requirement for such advancement. The student must have been admitted to candidacy at least one semester before her/his degree is conferred.

Dissertation and Final Defense

Required of every candidate for the Doctor of Education with emphasis in educational leadership degree, the dissertation is a significant contribution of research which reflects the beliefs undergirding the degree program of the leader as scholar-practitioner, responsible and disciplined inquiry in the candidate's major area of study, and an authentic contribution to scholarship. The minimum number of dissertation hours is 12. The format of the dissertation must be acceptable to the Doctoral Faculty Council and the Graduate School. (Thesis Guide, a manual describing the "Procedure for the Preparation of Master's Thesis and Doctoral Dissertations," is available in the Barnes & Noble University Center Bookstore.)

During the first dissertation course, the student will defend the Dissertation Proposal and apply for candidacy. The student must have been admitted to candidacy at least one semester before the degree is conferred. No student shall be admitted to candidacy for the degree until such time that her/his research proposal has been approved by her/his Dissertation Research Committee and/or the Doctoral Faculty Council, and her/his research proposal for the dissertation submitted to the associate vice president for graduate studies and research for final approval.

By the date indicated in the current Graduate Bulletin, the candidate must submit to the Graduate School:

1. Five copies of the dissertation in final form, incorporating all suggestions and corrections approved by the candidate's Dissertation Research Committee. At this point, each copy of the dissertation must contain an abstract not exceeding 350 words and a vita page. (Note that two additional copies of the abstract and of the title page must be submitted with the dissertation for microfilming purposes.) Until

the candidate has passed the Final Dissertation Defense, the dissertation remains unsigned and is not approved.

2. A completed Application for Dissertation Defense. The Application for Dissertation Defense schedules the Final Dissertation Defense and should be submitted at least two weeks before the proposed date for the defense. Normally the defense is conducted during the regular class days in the fall or spring semester. In unusual cases, the associate vice president for graduate studies and research may approve the candidate's petition to schedule the dissertation defense on a regular class day in the summer session if the petition is supported by all members of the Dissertation Defense Committee (inclusive of Dissertation Research Committee) and if all the members of the committee can be present.
3. Receipt for payment of fees to the university library for binding, shipping and microfilm reproduction. Dissertations, filmed in cooperation with University Microfilms, may be copyrighted by completing a special form available in the university library. Publication by microfilm does not preclude subsequent publication of the dissertation or any of its parts. With the written recommendation of the supervising professor, the associate vice president for graduate studies and research may agree to delay publication by microfilm for one year to protect patent or other rights.

By the date set each semester by the Graduate Office as the deadline for defense, the candidate for the Doctor of Education with emphasis in educational leadership degree must pass the Final Dissertation Defense, conducted by the student's Dissertation Defense Committee. This defense must not be scheduled until after each committee member has had sufficient time, as determined by the committee, to examine the dissertation. The Final Dissertation Defense will be limited to the research area of study for which the student has completed his/her research and to the dissertation document submitted for defense. After the Final Dissertation Defense, the Dissertation Defense Committee will complete the Report of the Dissertation Defense.

If the candidate has passed the Final Dissertation Defense, the five copies of the dissertation signed by the committee will be presented with the Report of the Final Dissertation Defense to the associate vice president for graduate studies and research. The Report of the Final Dissertation Defense when signed by the Dissertation Defense Committee is the committee's guarantee that the candidate has completed the work assigned by the committee; passed all examinations, defenses, reviews and assessments required by the department, including portfolio review; completed a dissertation that is a significant contribution of research that reflects the undergirding foundation of the leader as scholar-practitioner; and submitted for publication in Dissertation Abstracts an abstract approved by the committee.

Transfer of Credit on Doctor of Education With Emphasis in Educational Leadership Degree

The degree program requires that each student enter the program with a completed master's degree with 18 hours of graduate course work in educational leadership or a related field, and that each student must complete 66 hours of advanced graduate course work. Transfer of six hours for doctoral elective credit as approved by the doctoral adviser is available to the student. In all matters pertaining to the degree program, the

Doctoral Faculty Council will review individual student cases in accordance with the program and Graduate School policy and procedures.

Application for the Doctor of Education With Emphasis in Educational Leadership Degree

Application for the Doctor of Education with emphasis in educational leadership degree must be filed in the Graduation Office by the deadline indicated in the current Graduate Bulletin. A student must be formally registered at SFA for the semester or summer session at the end of which the degree is to be conferred.

Review of Doctoral Students' Academic Progress

A formal review of each doctoral student's academic progress will be conducted subsequent to three years of full-time enrollment by the appointed graduate adviser within the department and/or respective college. In all cases, the review process will be initiated within the program/department and follow the guidelines developed by the program/department. Each review will result in a progress profile to be shared with the student. Accumulation of doctoral hours in excess of 99 while failing to complete the degree will constitute unsatisfactory progress and will result in the termination of the student's degree program. In the case when a student's program is terminated, she/he may request a Post-Termination Review to be conducted by the department chair, graduate program adviser and dean of the college. The Post-Termination Review may result in a recommendation for reinstatement to the associate vice president for graduate studies and research.

An appeal for reinstatement beyond the Post-Termination Review may be made in writing to the University Graduate Council.

Graduate Student Handbook

The Graduate Student Handbook, available on the SFA Web site, provides an orientation to graduate study at SFA and addresses other topics not included in this bulletin. Topics include but are not limited to: getting started in graduate school, relationship with faculty, academic integrity, research integrity, graduate representation in university affairs and resources available to the graduate student. The incoming

L ibrary

The Ralph W. Steen Library is the main library at Stephen F. Austin State University and is the university's primary library and learning resource environment. Steen Library houses almost 1.9 million volumes, subscribes to 47,414 serials (27,263 are unique), and subscribes to 58 databases. The library catalog is available for use on campus and remotely online. Sixty-five percent of the serials collection is available in full-text online. Steen Library encompasses 245,000 gross square feet, is ADA-compliant, and has a wireless network throughout. The library is open 106 hours per week when classes are in session.

Steen Library is home to the LINCLab (Library Information and Networking Center), a 135-seat open-access computer laboratory featuring both PC and Macintosh platforms. A total of 200-plus computers are available within the library for open use. Steen Library is home to the Academic Assistance and Resource Center (AARC), a state-of-the-art tutoring center, which is open to all SFA students free of charge. The library also is home to the East Texas Research Center (ETRC), an archive featuring cultural materials indigenous to East Texas and is a designated Federal and State Document Depository. The library also is responsible for the university's Web site.

The library is a member of TexShare, a Texas State College and University Library Consortium. As a member, the library provides students with free in-house and remote electronic searching of almost 100 databases of full-text articles and more than 27,000 e-books. Students can request a TexShare library card, which gives them borrowing privileges when they visit other Texas state college and university libraries.

E xpenses

Tuition, fees and deposits as shown in this section are obligations of each student. Payment may be made by cash, check or money order payable to Stephen F. Austin State University, or by Visa, MasterCard, American Express or Discover. Students are encouraged to pay via the Internet at <http://www.mysfa.sfasu.edu>.

Payment Deadlines

Students who register during the Regular Registration period (as listed in the university's Schedule of Classes): Full payment of current amounts due must be made by the due date designated in the university's Schedule of Classes. Prior to the first class day of the term, the university will drop unpaid students from classes, and current tuition and fee amounts will be removed from the students' accounts. Bills will not be mailed. Students will be notified by e-mail of billed amounts through SFA's E-Bill system.

Students who register, add or change classes during the Late Registration period (beginning with the first class day of the term): Full payment of current amounts due must be made by the university's 20th class day. Students enrolling for classes during the Late Registration period incur a financial obligation immediately and must officially withdraw from the university if they decide not to attend, even if they have not yet paid. Any withdrawal is subject to the university's refund policy (see Refund of Tuition and Fees later in this section.)

Reinstatement Fee

In extraordinary circumstances, the university, at its sole discretion, may allow a student to be reinstated in classes after the 20th class day. In this case a \$50 per credit hour reinstatement fee will apply. During summer sessions, the reinstatement fee will be incurred after the 15th class day.

Tuition and Fees

Statutory tuition and required fees at Texas state universities are established by legislative enactment. Designated tuition and other fees are established within statutory limitations by the Stephen F. Austin State University Board of Regents.

Stephen F. Austin State University reserves the right to change tuition and fees in keeping with acts of the Texas Legislature or the University Board of Regents. All charges are subject to correction.

2006-2008 Tuition and Fees Required Fees Fall or Spring Semester*

# of Sem. Hrs.	Texas Residents Tuition	Non Residents Tuition	Designated Tuition	Graduate Tuition Fee	Student Service Fee	Student Center Fee	Computer Use Fee	Library Fee	Publication Fee	Rec Sports Fee
1	\$50.00	\$326.00	\$76.00	\$20.00	\$10.50	\$35.00	\$10.00	\$4.00	\$1.00	\$50
2	100.00	652.00	152.00	40.00	21.00	35.00	20.00	8.00	2.00	50
3	150.00	978.00	228.00	60.00	31.50	35.00	30.00	12.00	3.00	50
4	200.00	1304.00	304.00	80.00	42.00	36.00	40.00	16.00	4.00	50
5	250.00	1630.00	380.00	100.00	52.50	45.00	50.00	20.00	5.00	50
6	300.00	1956.00	456.00	120.00	63.00	54.00	60.00	24.00	6.00	50
7	350.00	2282.00	532.00	140.00	73.50	63.00	70.00	28.00	7.00	120
8	400.00	2608.00	608.00	160.00	84.00	72.00	80.00	32.00	8.00	120
9	450.00	2934.00	684.00	180.00	94.50	81.00	90.00	36.00	9.00	120
10	500.00	3260.00	760.00	200.00	105.00	85.00	100.00	40.00	10.00	120
11	550.00	3586.00	836.00	220.00	115.50	85.00	110.00	44.00	11.00	120
12	600.00	3912.00	912.00	240.00	126.00	85.00	120.00	48.00	12.00	120
13	650.00	4238.00	988.00	260.00	136.50	85.00	130.00	52.00	13.00	120
14	700.00	4564.00	1064.00	280.00	147.00	85.00	140.00	56.00	14.00	120
15	750.00	4890.00	1140.00	300.00	150.00	85.00	150.00	60.00	15.00	120
16	800.00	5216.00	1216.00	320.00	150.00	85.00	160.00	64.00	16.00	120
17	850.00	5542.00	1216.00	340.00	150.00	85.00	170.00	68.00	17.00	120
18	900.00	5868.00	1216.00	360.00	150.00	85.00	180.00	72.00	18.00	120
19	950.00	6194.00	1216.00	380.00	150.00	85.00	190.00	76.00	19.00	120
20	1000.00	6520.00	1216.00	400.00	150.00	85.00	200.00	80.00	20.00	120
For each hour over										
20 add	50.00	326.00	0.00	20.00	0.00	0.00	10.00	4.00	1.00	0.00

* Stephen F. Austin State University reserves the right to change fees in keeping with acts of the Texas State Legislature or the University Board of Regents. For the most current information regarding tuition and fees, go to <http://sfasu.edu> and click on "Current Students" and then "Business Office" and then "Tuition Calculator."

NOTE: All students are required to pay a Registration and Records fee of \$8 and an International Education fee of \$1. In addition, a course fee or lab fee may be charged for some courses to cover the cost of supplies and/or travel associated with the courses.

Tuition and Required Fees--Summer Term (Five and one-half weeks)

# of Sem. Hrs.	Texas Residents Tuition	Non Residents Tuition	Designated Tuition	Graduate Tuition Fee	Student Service Fee	Student Center Fee	Computer Use Fee	Library Fee	Publication Fee	Rec Sports Fee
1	\$50.00	\$326.00	\$76.00	\$20.00	\$10.50	\$35.00	\$10.00	\$4.00	\$1.00	\$25
2	100.00	652.00	152.00	40.00	21.00	35.00	20.00	8.00	2.00	25
3	150.00	978.00	228.00	60.00	31.50	35.00	30.00	12.00	3.00	25
4	200.00	1304.00	304.00	80.00	42.00	36.00	40.00	16.00	4.00	25
5	250.00	1630.00	380.00	100.00	52.50	45.00	50.00	20.00	5.00	25
6	300.00	1956.00	456.00	120.00	63.00	54.00	60.00	24.00	6.00	25
7	350.00	2282.00	532.00	140.00	73.50	63.00	70.00	28.00	7.00	60
8	400.00	2608.00	608.00	160.00	84.00	72.00	80.00	32.00	8.00	60
9	450.00	2934.00	684.00	180.00	94.50	81.00	90.00	36.00	9.00	60
10	500.00	3260.00	760.00	200.00	105.00	85.00	100.00	40.00	10.00	60
For each hour over										
10 add	50.00	326.00	76.00	20.00	10.50	0.00	10.00	4.00	1.00	0.00

*Stephen F. Austin State University reserves the right to change fees in keeping with acts of the Texas State Legislature or the University Board of Regents. For the most current information regarding tuition and fees, go to <http://sfasu.edu> and click on "Current Students" and then "Business Office" and then "Tuition Calculator".

NOTE: All students are required to pay a Registration and Records fee of \$8 and an International Education fee of \$1. In addition, a course fee or lab fee may be charged for some courses to cover the cost of supplies and/or travel associated with the courses.

Auditing

Tuition and fees for auditing are the same as those paid by regularly enrolled students. (See "Tuition and Required Fees" earlier in this section.)

Individuals age 65 and older may audit at no charge on a space-available basis with permission of the instructor.

Installment Payment Plan for Tuition, Fees, Room and Board

In accordance with Tex. Ed. Code 54.007, tuition and fees for **fall and spring** semesters may be paid using one of two alternatives. In addition, the university offers these same payment alternatives for room and board payments:

1. Full payment of tuition, fees, room and board in advance of the beginning of the semester; or
2. 1/2 payment of tuition, fees, room and board in advance of the beginning of the semester
1/4 payment of tuition, fees, room and board prior to the sixth class week
1/4 payment of tuition, fees, room and board prior to the eleventh class week

All types of financial aid (i.e., federal, state and private) administered by the university to a student must be applied toward payment of the first installment and each subsequent installment in the order due.

Students choosing to pay tuition and fees in installments will be charged a \$15 non-refundable administrative fee. Those electing to pay tuition, fees, room and board in installments will be charged a \$25 non-refundable administrative fee. Students

on the installment plan may pay their entire balance anytime prior to the payment due date. However, there is no refund of the administrative fee once an installment payment has been made.

The installment plan for fees applies to mandatory fees only. Optional and one-time fees (e.g., parking, yearbook, administrative fee, property deposit, late payment, student identification card, post office box) are ineligible for the installment plan and must be paid in advance of the beginning of the semester.

The costs for courses added after the initial registration are payable under the same payment alternative as was originally selected. Likewise, any refunds for dropped courses are made in accordance with the originally selected payment alternative.

If enrollment is terminated for any reason, the unpaid balance of tuition, fees, room and board is due and payable immediately. Refunds for withdrawals are made in accordance with the regular refund schedule (see Refund of Tuition and Fees later in this section). Installment payments due will be deducted from the refund. The student is responsible for the immediate payment of any remaining balance due after the refund is applied. Students who fail to pay the balance in full will be considered delinquent.

The university will e-mail students notifying them prior to the second and third installment due dates via SFA's E-Bill system. However, it is the student's responsibility to make all payments by the appropriate dates without regard to the university's billing procedures. Students who fail to make full payment by the due date will be placed on delinquency status and will incur late charges of \$25 for each missed payment date.

Any student electing the installment payment alternative must sign an Installment Contract. Copies of the current contract are available in the SFA Business Office (second floor of the Austin Building) or at our Web site: www.sfasu.edu and click on "Current Students" and then "Business Office."

Students' Resident Status

The university is guided by state law in determining the resident status of students. Sections 54.001-54.209 of the Texas Education Code provide, in part, as follows:

In essence, the student who has not resided in Texas for 12 months immediately preceding the student's registration into the university will be classified as non-resident.

A non-resident teaching assistant employed at least half-time in a position which relates to his or her degree program shall be entitled to pay the tuition and fees of a resident student.

A non-resident student holding a competitive scholarship of at least \$1,000 for the academic year awarded by a scholarship committee of SFA is entitled to pay the tuition and fees of a resident student.

Rules and regulations governing the residency classification of a student shall be available in the Office of Admissions, and any student who is uncertain of status should obtain such rules and regulations and seek a determination of status through that office.

Individual determinations can be affected by: death or divorce of parents, custody of minor by court order, active military duty of student or student's parents.

Registering under the proper residency classification is the responsibility of the student. If there is any question of his/her right to classification as a resident of Texas, it is his/her obligation to raise the question with the Office of Admissions prior to registration.

Tuition Limit

Concurrent Enrollment in Two Public Institutions of Higher Education (Sec. 54.062 Tex. Ed. Code)

When a student registers at more than one Texas public institution of higher education at the same time, his tuition charges shall be determined in the following manner:

- (1) The student shall pay the full tuition charge to the first institution at which he is registered, and in any event he shall pay an amount at least equal to the minimum tuition.
- (2) If the minimum tuition charge at the first institution is the same as or greater than the minimum tuition charge at the second institution, then no minimum charge is to be assessed by the second institution. Instead, only the per hour charge for the courses involved will be assessed by the second institution.
- (3) The student shall first register at the institution with the lower minimum tuition charge and the second institution shall assess only the difference between the total tuition charges at the first institution and those of the second institution, except that in no case shall the student pay the second institution less than the hourly rates for the courses involved.
- (4) If a student is considered to be a Texas resident and therefore qualified to pay Texas resident tuition rates by one institution at which he is registered, that student shall be considered a Texas resident at each of the institutions at which he is concurrently registered for the purposes of determining the proper tuition charges.

More information concerning this program is available in the Business Office. Application for this program should be made at the Business Office well in advance of registration. Normally, the fee slip from the first institution will suffice as proof of registration at that institution.

Tuition and Fees for Doctoral Students

Through the first 98 hours of doctoral studies, a student will be subject to the same tuition and fees as all other graduate students, depending upon the doctoral student's residency status. However, following the semester in which a student completes a total of 99 or more doctoral hours, that student will be subject to paying tuition and fees in an amount to be commensurate with the current out-of-state tuition and fees, or the equivalent of full-cost-of-education as determined by Stephen F. Austin State University. For more information, see the policy on Allowable Credit Hours and Completion Time for Doctoral Students in the SFASU Policy and Procedures Manual, available on the SFA Internet Web site.

Exemptions and Waivers from Tuition and Fees

Hazelwood Act (Sec. 54.203 Tex. Ed. Code)

Certain veterans who served on active military duty and received an honorable discharge, who were residents of Texas at the time of entry into the service, and who resided in Texas for at least the 12-month period before the date of registration are eligible for exemption from the payment of tuition and some fees at public schools. These exemptions also apply to children of members of the U.S. armed forces killed in action or who died while in the service. Additionally, they apply to children of members of the Texas National Guard and Texas Air National Guard killed while on active duty.

The exemptions shall not exceed a cumulative total of 150 credit hours.

To obtain this exemption, the veteran should furnish the following documents to the Business Office:

1. a certified copy of the veteran's discharge papers;
2. a letter from the Veterans Administration in Muskogee, Okla. (1-888-442-4551) verifying that veterans benefits have been exhausted;
3. Complete an application that is available in the Business Office.

All documents should be submitted to the Business Office well in advance of registration. Until entitlement for this exemption has been established, the student will pay the regular tuition and fees from his own funds.

Hearing Impaired and Visually Impaired Students

(Sec. 54.205 Tex. Ed. Code)

Certain hearing impaired and visually impaired students who are Texas residents are eligible for exemption from payment of tuition and fees. Application for this exemption should be made to the Department of Assistive and Rehabilitation Services.

Good Neighbor (Students from Other Nations of the American Hemisphere)

(Sec. 54.207 Tex. Ed. Code)

Certain native-born students from other nations of the American hemisphere may be eligible for exemption of tuition. Individuals requesting this exemption should contact the Office of Student Financial Assistance.

Children of Prisoners of War or Persons Missing in Action

(Sec. 54.209 Tex. Ed. Code)

Dependent children of any person who is a domiciliary of Texas on active duty as a member of the U.S. armed forces, and who at the time of registration is classified by the Department of Defense as a prisoner of war or as missing in action, are eligible for exemption of tuition and fees. Application for this exemption should be made in the Business Office well in advance of the student's registration.

Senior Citizens (Sec. 54.210 Tex. Ed. Code)

Persons 65 years of age or older may enroll in up to six hours of courses each semester or summer term without payment of tuition. Fees will be assessed. Senior citizens will be allowed to audit any courses offered by the university, without payment of tuition or fees, if space is available and with permission of the instructor.

Refund of Tuition and Fees (Sec. 54.006 Tex. Ed. Code)

Withdrawal Refunds. A student officially withdrawing from the university is eligible for refund of tuition and certain fees according to the following schedule:

Regular Semester

- | | | |
|-----------------------------------|-------|-----|
| 1. Prior to first class day | *100% | |
| 2. During the first 5 class days | | 80% |
| 3. During the second 5 class days | 70% | |
| 4. During the third 5 class days | 50% | |

- | | |
|-----------------------------------|------|
| 5. During the fourth 5 class days | 25% |
| 6. After the fourth 5 class days | None |

Summer Term

- | | | |
|---|-------|------|
| 1. Prior to first class day | *100% | |
| 2. During the first, second, or third class day | 80% | |
| 3. During the fourth, fifth or sixth class day | 50% | |
| 4. Seventh day of class and thereafter | | None |

* A student officially withdrawing from the university prior to the first class day will be assessed a matriculation fee of \$15.

Full refund of tuition and fees will be made if withdrawal is due to death or transfer under military orders.

Dropped Course Refunds. A student dropping a course within the first 12 class days of a regular semester or the first four class days of a summer term is eligible for a full refund of applicable tuition and fees for the course dropped, provided the student remains enrolled at the university for that semester or term.

Late Registration Fee

Students who register after the regular registration dates will pay a late registration fee. Additionally, enrolling in or adding courses after the census date will be permitted only in extraordinary circumstances and at the university's sole discretion. A fee of \$50 per semester credit hour will be charged.

Graduation Fee

Each time a student applies for a degree from the university he or she must pay (at the Business Office) a graduation fee. If the degree candidate plans to participate in commencement exercises he or she may rent a cap and gown at Barnes & Noble Bookstore in the University Center. For additional information, contact the Office of the Registrar.

Thesis and Dissertation Fees

Graduate students at SFA completing a thesis or dissertation as part of their degree requirements must pay the cost of binding, shipping and microfilming. Fees for these services are listed elsewhere in this bulletin.

Deposits

Housing. A student who lives in university housing must deposit \$100 with the Housing Office prior to enrollment.

General Property Deposit (Sec. 54.502 and 54.5021 Tex. Ed. Code). Each student enrolled in the university must make a general property deposit of \$10. This deposit is subject to charges for property loss, damage and breakage in libraries and laboratories. The deposit, less charges, will be returned to the student at his request upon withdrawal or graduation. Any deposit which

remains without a refund request for a period of four years from the date of last attendance shall be forfeited.

Returned Check Service Charge

A charge of \$20 plus applicable sales tax will be assessed for each unpaid check returned to Stephen F. Austin State University.

Cost of Room and Board

Students who wish to reside in university residence halls and university apartments should obtain information and rates from the Housing Office.

Installment Payment of Room and Board

Room and board may be paid in installments during the fall or spring semesters. (See Installment Payment Plan for Tuition, Fees, Room and Board earlier in this section.) Room and board for each summer term must be paid in full at registration.

Books and Supplies

Students must provide their own textbooks and supplies. Barnes & Noble University Center Bookstore, in the University Center, is the major source for these materials.

Bookstore Refund Policy

The university bookstore is contracted to Barnes & Noble College Booksellers Inc. The Barnes & Noble refund policy is as follows:

Refunds will be issued in the original form of payment for textbooks purchased at the bookstore if returned in the original condition with a valid receipt and within the first full week after classes begin.

Refunds will be issued in the original form of payment at any time during the semester for general merchandise purchased in the bookstore if returned in the original condition and with a valid receipt.

Refunds or exchanges will not be issued for custom course materials, outlines, study guides, school guides, magazines and prepaid cards. Opened software may be exchanged for the identical item only.

Student identification cards are required when selling books or purchasing by check or credit card in the bookstore.

Miscellaneous Expenses

Expenses for laundry, grooming, entertainment and personal incidentals are in addition to the expenses listed in this section.

Delinquent Accounts

A student with a past due unpaid balance is considered delinquent. The delinquent student may not register for subsequent semesters, receive credit for work done that semester, receive grades and transcripts or add courses.

Delinquent accounts may be turned over to a collection agency. The student will be responsible for any charges associated with the collection of delinquent amounts.

Financial Aid

Stephen F. Austin State University Office of Student Financial Assistance is committed to helping graduate students meet their financial needs.

SFA provides graduate students traditional financial assistance in the form of state grants, work-study programs and student loans. To be considered for these funds, an applicant must complete a Free Application for Federal Student Aid (FAFSA) on paper or online at www.fafsa.ed.gov. Additional forms may be required and can be completed online at www.sfasu.edu/faid. For priority consideration, applications should be received by the Office of Student Financial Assistance by April 1; however, applications received after this date will be accepted and processed. Once this information is received, graduates will be evaluated for all available funds. Electronic notification of awards will be made within two weeks after receipt of all required documentation. Typically, graduate students qualify for grant funding through the state TPEG and institutional Lumberjack Grant programs, and benefit from elevated federal loan eligibility. For more information or to speak with a counselor, contact the Office of Student Financial Assistance at (936) 468-2403 or e-mail at www.sfasu.edu/faid.

Dropping courses may result in a reduction of financial aid funds for the current term. In order to receive financial assistance for future terms, you must make Satisfactory Academic Progress and dropping courses will affect your Satisfactory Academic Progress standing. For information concerning this policy, visit the office's Website at www.sfasu.edu/faid.com.

Return of Funds by Financial Aid Recipients

When a student has received financial aid payments to cover educational costs for a semester or payment period and subsequently withdraws from the university during the semester for which payments were received, these funds can no longer be considered as being used for educational purposes. Therefore, the funds must be repaid to the aid programs from which they were received by way of a return from the university and/or a repayment from the student.

Per Diem Return Policy for Federal Financial Aid Recipients

Federal regulations require the university to perform a return calculation for all students who receive federal financial aid and withdraw during the semester. The return amount due to the program(s) is calculated on per diem basis with a formula established by federal regulations. Returns are required on any student who withdraws before 60 percent of the semester is completed. The student will be responsible for reimbursing SFA for any funds returned by the university on behalf of the student.

In addition, federal regulations require that this return calculation be done for students who stop attending their classes and receive a grade of all QF's for the semester. Per regulations, these students will receive a calculation using a 50 percent completion rate on a percentage based on the last documented date of attendance. It

is the responsibility of the student to provide the Office of Student Financial Assistance with documentation of continued attendance if he or she receives all QF's for the semester. Documentation must be provided within 21 days of the end of the semester, unless an extension is announced.

Return Policy for Non-Federal Financial Aid Recipients

SFA also requires a return of funds for all non-federal financial aid recipients who withdraw during the semester. In the event that non-federal financial assistance programs or privately funded scholarships have their own return policy, their policy supersedes this policy.

Regular Semester:

- Prior to the first class day, 100 percent of the award must be returned.
- During the first five class days, 80 percent of the award must be returned.
- During the second five class days, 70 percent of the award must be returned.
- During the third five class days, 50 percent of the award must be returned.
- During the fourth five class days, 25 percent of the award must be returned.
- After the fourth five class days, none of the award must be returned.

Summer Term:

- Prior to the first class day, 100 percent of the award must be returned.
- During the first five class days, 80 percent of the award must be returned.
- During the second five class days, 60 percent of the award must be returned.
- During the third five class days, 40 percent of the award must be returned.
- After the third five class days, none of the award must be returned.

The student will be responsible for reimbursing the university for any funds returned by the university on behalf of the student.

Assistantships

A number of departments offer graduate assistantships to carefully selected students. The stipends vary according to the major and extent of the assignment. To be eligible for an assistantship, a student must have clear or provisional admission to the Graduate School and be in good academic standing.

A graduate assistant may be assigned to research or administrative projects or to teaching. Graduate assistants assigned at the 50 percent rate are required to serve 20 clock hours per week in the department to which they are assigned. Those assigned to other percentages are required to work a proportionate number of clock hours per week. To aid the completion of degree requirements at the earliest practical date, department chairs are not encouraged to offer graduate assistants additional responsibilities beyond the 20-hour norm.

A graduate assistant must be enrolled for at least nine hours of graduate course work in the fall or spring semesters and three semester hours in each summer session in which the student has an assistantship. Should a graduate assistant fall below the nine or three semester hour minimum for a semester or summer session, he or she will not be eligible for an assistantship the following semester.

Except for the Ph.D., Ed.D. and M.F.A. programs, graduate assistantships are usually limited to four semesters.

A student interested in a graduate assistantship should contact the appropriate academic department well in advance of the semester in which he or she is interested in the assistantship. Also, the student should apply for graduate admission by the first of March or the middle of October.

Applicants for assistantships should secure an application form from the appropriate academic department. Application forms also are available on the Graduate School Web site (www.sfasu.edu/graduate). Along with a completed application form, the student must submit a letter of application and three letters of recommendation to the department. When the student is approved for an assistantship by the department chair, the chair will initiate a Personnel Action Request and submit it with the application form, transcripts, letter of application, notice of admission and letters of recommendation through the academic dean, Budget Office, associate vice president for graduate studies, and the director of human resources. After all signatures are obtained on the "Personnel Action Request" form, the associate vice president for graduate studies will send a letter to the prospective assistantship candidate offering the position. The student will be asked to accept or decline the offer in writing. If the student accepts, he or she will then contact Human Resources to set up an appointment for a new employee orientation and complete the appropriate paperwork.

A graduate assistant orientation program is offered to all new graduate assistants at the beginning of the fall semester each year. Details as to time and place for the orientation session will be provided through the academic departments. They also are available through the Graduate Office upon request.

Information regarding responsibilities of graduate assistants, assignment of duties, training, evaluation and reappointment can be found at the Graduate School Web site (www.sfasu.edu/graduate/) under Graduate Assistant Administration. Graduate assistantships are considered security sensitive positions by the university and criminal histories will be checked.

Student Employment

In addition to graduate assistantships, numerous other jobs are available to graduate students both on and off campus. Jobs are kept current and posted on the bulletin board located in the Student Employment Center, on the third floor of the Rusk Building. Students must have a complete financial aid file indicating that they qualify in order to be employed in the Federal Work Study Program. Students must be progressing satisfactorily in their academic work in order to qualify to work in the Federal Work Study Program.

All student employees and prospective employees must fill out a student data sheet, I-9 form and verification and a W-4A form in the Student Employment Center.

Policy on Scholarship Awards

Stephen F. Austin State University provides a comprehensive scholarship program to help students meet educational costs. Scholarships are based on need, merit, or athletic and special skills.

Several factors are considered when selecting scholarship recipients. Selection criteria may include (but are not limited to) the applicant's academic record, degree goals, financial status and performance on a standardized test. If applicable, other factors may be taken into consideration; these factors may include socioeconomic background, first generation of college attendance, rank in class, the applicant's region of residence, involvement in community activities, extracurricular activities, and career plans after graduation from college. The university scholarship committee or donors of scholarship funds may specify other appropriate selection criteria.

Stephen F. Austin State University complies with all state and federal laws concerning awarding scholarships and other financial assistance.

Special Student Services

Alumni Association

Organized in 1928, the Stephen F. Austin State University Alumni Association is a non-profit organization dedicated to serving the alumni, friends and current students of Stephen F. Austin State University through programs, scholarships and activities that create an attitude of continued loyalty and support.

From its on-campus office, the organization sponsors a number of scholarships and awards. It also maintains addresses of ex-students, informs alumni on its activities and information as well as university events by publishing a quarterly magazine and other alumni publications, operates the Charter Chapter program, sponsors the annual Homecoming and conducts the Mentor Ring program.

The combined Alumni Association and Alumni Foundation endowments now total nearly \$18 million and have provided more than \$1 million in scholarships and awards in recent years. In 1966, the association inaugurated the Distinguished Alumnus Award, presented each year at the membership meeting at Homecoming. The Celebration of Excellence honors the recipients of the Distinguished Professor Award and Outstanding Young Alumnus Award. The association also hosts a reception for the 50-year anniversary class each spring graduation.

All former students and SFA friends are encouraged to be active in the Alumni Association through one of the following membership plans: Annual, \$40; Student Annual, \$25; Life, \$450; Student Life, \$400; Joint Life, \$500; Senior Life, \$300 or Joint Senior Life, \$400. Correspondence regarding membership or activities of the organization may be addressed to SFA Alumni Association, P.O. Box 6096-SFA Station, Nacogdoches, Texas 75962; telephone (936) 468-3407 or through its Web site (www.sfaalumni.com).

Student scholarship applications are available beginning Sept. 1 of each year online or at the Tracie D. Pearman Alumni Center. Deadline for applying is Feb. 1 of each year.

Campus Computing and Telecommunications

Information Technology Services (ITS) is responsible for maintaining the availability, functionality and security of the university's administrative computer systems, wired and wireless campus network infrastructures, wide-area network communications, private intranet portal, e-mail services, and telephone system. ITS also provides separate computer repair services and help desks for students and for faculty/staff.

ITS is not the only department that supports computing and technology at SFA. Additional campuswide services are provided by two other departments, while laboratories and technology centers in the various schools and colleges offer more specialized support. Collectively, these facilities and services provide students, faculty and staff with a technology-rich educational environment.

The Office of Instructional Technology (OIT) supports faculty and students in the use of instructional technologies to enhance the teaching and learning process.

OIT facilitates the integration of technology into instruction in classroom and

distance education environments through professional development workshops, consultation and support services for faculty and students. OIT also provides support for all facets of electronically delivered instruction such as interactive videoconferencing (ITV) and Web-based systems such as WebCT.

The Ralph W. Steen Library provides general student academic computing support, manages a major student computing laboratory and provides electronic access to informational resources both within and external to the library collections. The library also manages SFA's public Web site.

SFA provides all students with robust, personalized software tools and a high-performance network. All students receive both an SFA e-mail account and a private account on mySFA, the university's intranet portal, at the time they are admitted. Students use mySFA to accept financial aid, register for classes, complete class assignments through WebCT, check grades, vote in campus elections, respond to surveys, gain access to campus e-mail accounts, learn about upcoming activities, participate in campus groups, enter chat sessions, create personal calendars, and read world, national and local news. All residence halls rooms have high-speed connections to the Internet.

SFA also participates in the Internet2 research network, a consortium led by 200-plus universities working in partnership with industry and government to develop and deploy advanced network applications and technologies. In addition, SFA is a founding member of LEARN. The Texas Legislature has charged this higher education consortium with building and operating a statewide fiber backbone that will complete the nationwide next-generation National Lambda Rail (NLR) research network. By holding a seat on the LEARN Board of Directors, the university has taken a leadership role in making the latest networking technology available to the state and researchers at SFA.

The university provides free anti-virus software to all students. Through the Barnes & Noble Bookstore at the University Center, popular Microsoft products such as the Office Suite are available at low cost. The SHACK, ITS' student technical support facility, is the first line of support for all technology-related questions. Services such as removing viruses from students' workstations are available at no cost. The facility is temporarily located at 119 Feazell St. until a permanent location is built in 2006. Telephone and walk-up service is provided from 10 a.m. to 1 a.m. Monday through Friday.

Health Services

University Health Services provides healthcare services to the university's students. Currently enrolled students are eligible for most clinic services without additional costs, including consultation, diagnosis and treatment rendered by the clinic staff. In addition, some optional services are provided at low cost. There are no facilities on campus for X-ray, overnight stay, dental, optometry or pharmacy services. These services may be obtained locally. Clinical laboratory tests performed by outside laboratories may entail a charge to the student, but at a minimal fee.

The clinic is staffed by primary care specialists in pediatrics or family medicine, nurses, certified laboratory personnel, administrative and clerical personnel.

The clinic hours are 8 a.m. to 5 p.m., Monday through Friday. Patients are seen utilizing an appointment system. Appointments can be made by calling (936) 468-

4008. Students' urgent medical problems are seen when students present themselves to the clinic. Walk-in patients will be screened by the nurses utilizing approved protocols. Patients who are screened will be worked into the physicians' schedules, given an appointment time or treated for minor problems utilizing the approved protocols.

Medicines, X-rays and further consultations with medical personnel ordered or requested by clinic physicians must be procured in the community at the student's expense. Students are responsible for any services obtained outside the clinic, including hospital, ambulance or physician fees.

After-hour emergencies are handled through local hospital emergency rooms. Since both the hospital and the doctor charge for these services, every student should be covered by a medical/hospitalization insurance policy. Those students who do not have hospitalization insurance are strongly urged to obtain the university-endorsed student health policy or its equivalent to cover after-hours emergencies, hospitalizations or injuries requiring referral to a specialist.

For additional information, consult the clinic brochure or call (936) 468-4008.

Immunizations

All students must show adequate levels of:

1. Immunity, acquired naturally or by immunization against the following diseases:
Tetanus/Diphtheria—The last of the three initial injections or a booster must have been within the past 10 years;
Poliomyelitis—(Types I, II and III);
Measles—Prior to registration, all new students born on or after January 1, 1957, must show proof of two doses of measles vaccine administered on or after their first birthday and at least 30 days apart or serologic confirmation of immunity to measles;
Rubella—Prior to admission, all new students must show proof of rubella vaccine administered on or after their first birthday or serologic confirmation of rubella immunity;
Mumps—Prior to admission, all new students born on or after January 1, 1957, must show proof of mumps vaccine on or after their first birthday or serologic confirmation of mumps immunity.
2. Freedom from infectious tuberculosis as evidenced by a negative tuberculin skin test (PPD) within three months prior to matriculation or a physician's statement documenting a negative chest X-ray.
3. Menengitis Vaccination—For students living, socializing or working in close proximity to other students, the state of Texas recommends vaccination against the meningococcus organism. Stephen F. Austin State University makes this vaccination available to all students each October.

Evidence of these, such as a statement from a physician or copies of high school or college immunization records, must be provided to the Graduate School for forwarding to the University Health Center.

Housing

The housing and residence life program exists as an integral part of the educational program and academic support services of the university. The mission of housing and residence life is to provide a residential environment that is clean, well maintained and comfortable while cultivating a community that stimulates student development through co-curricular programs grounded in both human resource and student development

theories. Students who have less than 60 hours of completed course work or who are younger than 21 years of age reside on-campus and have the opportunity to discover the full university experience. Additional information, off-campus requirements, policies and procedures can be found at www.sfasu.edu/housing.

Military Science

The Military Science Program is a coeducational program designed to prepare students for positions of leadership in military service or civilian life. Seventy percent of all Army officers come from Army ROTC programs at universities throughout the country. The U.S. Army is earnestly seeking to attract mature young men and women with graduated degrees. Consequently, a special two-year Military Science Program is available to graduate students.

By successfully completing this Military Science Program, a student is eligible to become an Army officer. Depending upon the individual's desires and the needs of the service, the graduate may serve on active duty for three years or serve in the National Guard or Army Reserve. Regardless of academic major, a student, through military science, should find direct application for the academic training received at the university or valuable training and experience in a related career field.

Requirements for Admission

Graduate students whose anticipated tenure at SFA is two years may participate in the pre-commissioning two-year program. They should bear in mind, though, that the courses required in the Military Science Program are not creditable for graduate degrees. The student's graduate program should be planned accordingly.

An interview with the department chair and a physical examination are required. A veteran of any military service, students who participated in any service ROTC, and those who participated in JROTC in high school are eligible to receive credit for the basic course of Army ROTC (first two years). If this does not apply, the student may attend the Leaders Training Course at Fort Knox, Ky., for five weeks during the summer. The Department of the Army pays travel to and from Fort Knox, and the student receives pay and allowances during the period of attendance.

The student receives a tax-free stipend of \$450-500 per month while participating in the Military Science Program. The student will attend the Leadership Development and Assessment Course during the summer between the two years of military science instruction.

All uniforms and equipment are issued by the Department of Military Science at no charge to the student. A number of government-funded postgraduate study programs are available to qualified students who complete the commissioning requirements.

Additional information concerning this program may be obtained in person at the Military Science Building, or by contacting the Department of Military Science at P.O. Box 13059, SFA Station, Nacogdoches, Texas 75962 or (936) 468-4505.

Career Services

SFA Career Services offers students and alumni a variety of services designed to assist in the development and implementation of career and life goals. These services include career-related counseling and information; resume and cover letter writing assistance; mock interviews designed to identify effective networking and interviewing

strategies and resources such as in-house comprehensive career and employer libraries and free career-related publications.

Career Services serves as a liaison between SFA students/alumni and prospective employers offering internship, part-time and full-time employment opportunities. The center connects students and employers through on-campus recruiting, job fairs and career days, and through its partnership with Monster.com™. Graduate students wishing to participate in on-campus interviews, the resume referral service, or to access the hundreds of job listings should register with Career Services through Monster.com™ under the university password. Contact Career Services to obtain an initial password, submit profile information and upload resumes and cover letters online. SFA students and alumni may sign up for interviews with companies recruiting on campus and apply directly to employers listing opportunities online. Career Services also continues to offer the traditional credential file service for those who may be pursuing teaching or graduate assistantship positions. The credential file, when completed, will contain a candidate profile sheet, resume, transcript(s) and letters of recommendation. Files are sent to prospective employers by their or students' request. The staff at SFA Career Services is committed to providing centralized career development programs and services to students and alumni in an atmosphere that conveys helpfulness and caring. Students are invited and encouraged to take advantage of these programs and services while at SFA and following graduation. Additional information may be obtained in person at the Rusk Building, third floor, on our Web site at www.sfasu.edu/ccs, or by contacting SFA Career Services at P.O. Box 13032, SFA Station, Nacogdoches, Texas 75962 or at (936) 468-3305.

Disability Services

Stephen F. Austin State University is committed to providing equal opportunities in higher education to academically qualified students with disabilities who demonstrate a reasonable expectation of college success. Students with disabilities who attend SFA will be integrated as completely as possible into the university community. The university shares responsibility with the student for modifying campus facilities and programs to meet the individual need.

Following acceptance for clear admission to SFA, the process of obtaining services and accommodations begins with the submission of documentation by the student and completion of the application for services. Special housing accommodations needed because of a disability should be requested on the request form available through the Housing Office or Disability Services. Documentation should provide sufficient evidence of a disability that substantially limits one or more major life activities as defined by Section 504 of the Rehabilitation Act of 1973 as amended, and the Americans with Disabilities Act of 1990. Guidelines for documentation are provided by Disability Services and should be reviewed by the student prior to obtaining documentation from a qualified professional. Guidelines for learning disabilities are intended to meet or exceed those adopted by the Association of Higher Education and Disabilities (AHEAD).

Documentation should be submitted well in advance of the initial semester in which accommodations will be requested. Sufficient time is necessary to provide for committee review of documentation and appropriate coordination of services. Recommended accommodations may differ from those provided in the public school setting. The committee review is aimed toward identifying areas of substantial

limitation based upon the student's diagnosis; and, recommending the most appropriate accommodations which can be reasonably expected to assist the student in the post-secondary environment.

Refer to the following paragraphs for information on Section 504 and ADA regarding provision of services for persons with disabilities. Requests for additional information should be directed to: Disability Services, P.O. Box 6130, SFA Station, Nacogdoches, Texas 75962-6130; voice: (936) 468-3004, TDD: (936) 468-1004; fax: (936) 468-1368.

Americans with Disabilities Act of 1990 and Section 504

Stephen F. Austin State University does not discriminate on the basis of disability in admission to, access to or operations of its programs, services or activities, including hiring or employment practices. This notice is provided under provisions of Section 504 of the Rehabilitation Act of 1973, as amended, and Title II of the Americans with Disabilities Act of 1990. Questions, concerns or requests for additional information regarding the ADA or the complaint/grievance procedure, may be forwarded to: ADA coordinator, Disability Services, P.O. Box 6130, SFA Station, Nacogdoches, Texas 75962. A copy of the grievance procedure may be obtained from Disability Services in Room 325 of the Human Services Building.

The provision of all reasonable accommodations and services is based upon assessment of the impact of the student's disabilities on his or her academic performance at a given time in the student's life. Therefore, it is in the student's best interest to provide recent and appropriate documentation relevant to the student's learning environment. A school plan such as an individualized education program (IEP) or a 504 plan is insufficient documentation, but it can be included as part of a more comprehensive assessment battery. A comprehensive assessment battery and resulting diagnostic report should include a diagnostic interview, assessment of aptitude, academic achievement, information processing and a diagnosis. Complete documentation guidelines should be obtained from Disability Services.

Persons with disabilities who need special accommodations (including auxiliary aids for effective communication) to participate in programs, services or activities of Stephen F. Austin State University are invited to make their needs and preferences known to the director of the program, service or activity in which the individual seeks to participate or to the ADA coordinator.

This bulletin is available on disk from the ADA coordinator and, in addition, it may be accessed through the Internet on the SFA Web site.

Office of International Programs

The Office of International Programs (OIP) serves as a clearinghouse and facilitator for international activities and exchanges at SFA. The OIP serves students, faculty and administrators in disseminating information about study abroad, in encouraging and facilitating organization of faculty-led study abroad programs, in administering the SFA Scholarship for Study Abroad Fund. Simultaneously, the OIP assists other campus offices in the recruitment of international students as matriculated students and as ESL students in the American English Language Institute.

The OIP also assists faculty with teaching and research exchanges. The unit oversees the negotiation of cooperative agreements between SFA and foreign universities for the exchanges of students and faculty and for the development of joint research projects.

The OIP contributes to the campus further by raising awareness of international issues and studies so that our students are better prepared for lives in an increasingly globalized society.

Study Abroad – Independent

The OIP coordinates and facilitates opportunities for our students to experience independent study abroad. Students need to register with the study abroad office; select from many opportunities and experiences which meet their academic goals; meet with the Admissions Office to determine transferability of such courses to SFA; participate in a pre-departure orientation; and, upon return, provide an opportunity for debriefing on experiences, accomplishments and perception of the study abroad activity.

Students may opt for a single semester or more depending on the number of credits desired and the availability of appropriate courses through affiliations between SFA and universities abroad or via programs offered by other academic institutions.

Study Abroad – Faculty-led Courses

The OIP coordinates and facilitates opportunities for faculty to lead a group of SFA students using one or more of their courses (as included in approved inventory of courses).

The OIP will assist in developing logistical arrangements, programmatic support and travel arrangements. The office also will assist in budget development of the activity and collect and disburse funds for programmatic costs.

Applications for faculty-led programs are available in the OIP office. A completed application must be sent to the Texas Higher Education Coordinating Board for final approval. Once that approval is obtained, planning and fee collection may begin in earnest.

Faculty salaries are paid by departmental teaching allocation. Generally three or six hours credit is provided during Summer I or Summer II semesters. Travel cost of the instructor is prorated over the pool of registrants.

Students will pay SFA tuition and fees and their share of the programmatic and travel expenses.

American English Language Institute (AELI)

The AELI is an intensive English language program for international students. The Institute provides international students with the necessary English skills to succeed in undergraduate and graduate university programs in the United States. (See information about the AELI described under International Student Admission elsewhere in this bulletin.)

Fees, Expenses and Financial Aid for International Students

Insurance Requirement: The Bureau of Citizenship and Immigration Services (BCIS – formerly called INS) requires all international students to carry health and accident insurance. The university has such a policy which meets all required coverage; applications are available at the Admissions Office or the Office of International Programs.

Out-of-State Tuition and Fees: If an out-of-state student (including international students) receives a competitive scholarship valued at \$1,000 for a 12-month period, he/she becomes eligible for tuition and fees of an in-state student. Students who receive a graduate assistantship also are eligible to pay resident tuition.

OIP/SFA International Scholarship:

The OIP/SFA International Scholarship is to be awarded to any student who will contribute to increased diversity at Stephen F. Austin State University. The amount of the scholarship is from \$500 to \$1,000 per year. Graduate students who are awarded \$1,000 OIP/SFA scholarships and are subsequently awarded graduate assistantships will have their scholarship reduced to \$500 per year.

Criteria for consideration of scholarship award (satisfy at least two of the following):

1. To a student whose mother tongue language is other than English.
2. To a student who has lived in a country other than the United States for a period of five years or more
3. To a student who has foreign or dual citizenship: recognized by foreign country and not by United States.
4. To a student who can demonstrate how he/she could make a contribution to international diversity on the SFA campus. (Prepare a 100-word essay explaining the contribution.)

Additional requirements:

For entering freshmen: a successful secondary educational record as evaluated for admission to SFA or an ACT composite score of 21 or higher or a SAT composite score of 1000 (verbal and math) or equivalent.

For transfer students from community college or senior university: a GPA of 3.0 or higher will be required (to be calculated on transferable credit at SFA).

For continuing students with this scholarship (pending availability of funds): must be a student in good standing with a GPA of 2.5 or higher on 4.0 scale.

All awardees must show financial need in order to be awarded the scholarship.

Applications are available in the Office of International Programs. Students may use the uniform scholarship application form for SFA and include the options above and submit to the Office of Student Financial Assistance, the SFA Alumni Center or the OIP. Evaluation and award of this scholarship will be determined by the OIP Scholarship Committee. Deadline for application is July 1 for the fall semester and November 1 for the spring semester awards.

Pilot 19: As a result of NAFTA, two students from Mexico per 1,000 students enrolled at SFA are eligible to pay in-state tuition and fees. Students accepted into this financial aid program must sign a financial need statement. (For example, of 12,000 students at SFA, 24 students from Mexico would be entitled to receive this tuition waiver.)

Good Neighbor Scholarship: The Texas Legislature enacted a law which awards 10 scholarships to students from every country south of the United States (except Cuba) and Canada. In addition, 30 scholarships are awarded to students from Peru and Mexico. Students must have been accepted into a Texas university by March 1. Then the university submits names to the Texas Higher Education Coordinating Board, which awards the scholarships. Recipients are provided free tuition for fall, spring and summer following the award made in May.

Other scholarships or financial aid may be available. Contact the OIP for more information.

Student Services

Housing: Year-round residence hall – open 12 months a year – allows uninterrupted living for any student who might be unable to return home during holiday, vacation periods, semester breaks and summer months. All occupants are required to sign a 12-month contract, which includes explanation of payment for all 12 months and various other policies and procedures. The housing contract may be viewed on the housing Web site at www.sfasu.edu/housing.

International student support services are provided by the OIP and the Multicultural Center:

- SFA orientation
- Cultural adjustment
- VISA issues
- Banking assistance
- Social opportunities
- Resources for assistance

In addition, the AELL is a safety-net for students who encounter difficulties with the use of the English language.

Academic support is offered through the Academic Assistance and Resource Center (AARC). All offices and departments at SFA are committed to student success and therefore will assist international students with their needs.

University Policies

Acceptable Use of Information Resources

Stephen F. Austin State University encourages the responsible use of its information resources. The use of information resources is for the university's academic activities, research and public service. Access to the university's information resources is, however, a privilege. All users of information resources should act responsibly to maintain the integrity of these resources. Furthermore, all users must abide by all existing university codes of conduct as well as by local, state and federal statutes. The university reserves the right to limit, restrict or extend privileges and access to its resources. The university's information resources include, but are not limited to, computers, servers, networks, computer-attached devices, network-attached devices, voice systems, cable systems and computer applications.

Appropriate use should always be legal and ethical, reflect academic honesty, uphold community standards and show restraint in the consumption of shared resources.

Appropriate use demonstrates respect for intellectual property, ownership of data, system security mechanisms, and every individual's right to privacy and to freedom from intimidation, harassment and unwarranted annoyance.

For additional information, consult the SFA Web site at www.sfasu.edu/upp under University Services for Policy F-40, Acceptable Use of Information Resources.

Discrimination Complaints/Sexual Harassment Policy

At Stephen F. Austin State University, no faculty, staff or student may discriminate against another on the basis of unlawful discrimination based on race, color, religion, sex, age, national origin, disability or disabled veteran status. Unlawful discrimination based on sex includes discrimination defined as sexual harassment.

Retaliation for filing an unlawful discrimination or sexual harassment complaint is prohibited by the policy and cause for severe disciplinary action, up to and including termination.

For additional information, consult the SFA Web site at www.sfasu.edu/upp under Human Resources for Policy E-46, Discrimination Complaints/Sexual Harassment.

Student Conduct Code

A student enrolling in the university assumes an obligation to conduct himself/herself in a manner compatible with the university's function as an educational institution. Misconduct for which students and student organizations are subject to discipline falls into several categories that are described in detail in the online Student Handbook at www.osa.sfasu.edu/handbook/htm. Two acts which are strictly prohibited and result in specific disciplinary action are described below.

Hazing

Stephen F. Austin State University is unequivocally opposed to any activities, on or off campus, by individuals or organizations which endanger the mental or physical health or safety of a currently enrolled or prospective student for the purpose of pledging, being initiated into, affiliating with or maintaining membership in any organization.

Hazing acts include but are not limited to:

- a. any type of physical brutality such as whipping, beating, striking, branding, electronic shocking, placing a harmful substance on the body or similar activity;
- b. any type of physical activity such as sleep deprivation, exposure to the elements, confinement in a small space, calisthenics or other activity that subjects the student to an unreasonable risk of harm or that adversely affects the mental or physical health or safety of the student;
- c. any activity involving consumption of a food, liquid, alcoholic beverage, liquor, drug or substance which subjects the student to unreasonable risk of harm or that adversely affects the mental health of the student;
- d. any activity that intimidates or threatens the student with ostracism, that subjects the student to extreme mental stress, shame or humiliation or that adversely affects the mental health or dignity of the student or discourages the student from entering or remaining registered at the institution, or that may reasonably be expected to cause a student to leave the organization or the institution rather than to submit to the acts described in this policy;
- e. any activity that induces, causes or requires the student to perform a duty or task, which involves a violation of the Penal Code.

Any organization and/or any individual involved in any hazing activity will be subject to both university disciplinary sanctions and criminal prosecution. An offense is committed by (a) engaging in hazing; (b) soliciting, encouraging, aiding or directing another engaging in hazing; (c) intentionally, recklessly or knowingly permitting hazing to occur, or (d) having first-hand knowledge that a specific hazing incident is being planned or has occurred and failing to report said knowledge in writing to the judicial officer.

It is not a defense to prosecution of any offense that the person against whom the hazing was directed consented to or acquiesced in the hazing activity. Penalties relative to criminal prosecution range from a fine of \$2,000 and 180 days in jail for failure to report a hazing incident to a fine of \$10,000 and two years in jail for an incident which causes the death of a student. Further, an organization may be penalized with a fine of up to \$10,000 or double the expenses due to the injury, damage or loss.

Penalties relative to university sanctions range from probation to suspension for any individual committing an offense. Student organizations committing an offense may be placed on university probation and are subject to withdrawal of university recognition. Sanctioned student organization(s): Phi Delta Theta (2007), Sigma Chi (2007), and Omega Psi Phi (2008).

For additional information, consult the SFA Website at www.sfasu.edu/upp under General Regulations for Policy D-34.1, Student Conduct Code, and for Policy D-16, Hazing.

Illegal Drugs

It is the policy of Stephen F. Austin State University that any unlawful manufacture, possession, use or delivery of any controlled substance or illegal drug is strictly prohibited. Moreover, it is the policy of the state of Texas and of this university that this institution will be as free of illegal drugs as it can possibly be. Therefore, in accordance with state law and university policy, any student who is determined, through the regular disciplinary procedures of the university, to have violated this policy will be suspended from the university for no more than two years and no less than the remainder of the current semester. At the discretion of the vice president of university affairs, a student suspended under this policy may, under certain conditions, remain enrolled at the university on disciplinary probation for the remainder of the current or subsequent semester, pending in position of a suspension at a later date.

For additional information, consult the SFA Website at www.sfasu.edu/upp under General Regulations for Policy D-34.1, Student Conduct Code, and for Policy D-19, Illicit Drugs and Alcohol Abuse.

Student Right-to-Know Act

In compliance with the U.S. Department of Education's Student Right to Know Act, Stephen F. Austin State University will make available to enrolled or prospective students information regarding graduation rates as well as institutional security policies and crime statistics. Graduation rates are available on the Web at <http://www.sfasu.edu/research/Reports/LBB/LBBmain.htm>. Institutional security policies and crime statistics are available from the Office of Admissions and the University Police Department. They also are available on the SFA Website at www.osa.sfasu.edu/handbook/safety.htm and at www.osa.sfasu.edu/UPD/upd.html.

Use and Release of Student Information

Student Records

The purpose of Policy D-13, Student Records, is to comply with federal law that grants to students the right to access to their education records, protects students from illegal use of their education records and restricts the disclosure of the Social Security account number of students. A description of the types of records, the custodian of those records, as well as student and institutional rights, can be found in the policy.

Specific information may be obtained by consulting with administrative officials listed in Policy D-13. Each student has the right to be provided with a list of the types of education records maintained by the university; to inspect and review the contents of his/her records, excluding the exceptions included in Policy D-13; to obtain copies of his/her records at personal expense; to explanations and interpretations of his/her records; and to a hearing to challenge the contents of his/her records.

For more information, consult the SFA Web site at www.sfasu.edu/upp under General Regulations for Policy D-13, Student Records.

Directory Information

The university designates the following items as directory information: name; all addresses, university issued e-mail; all telephone numbers; major field of study; academic classification; participation in officially recognized activities and sports; weight and height of members of athletic teams; dates of attendance and enrollment status; degrees and awards received; previous schools attended, photograph and class roster. The university may disclose any of these items without prior written consent, unless the student notifies the registrar in writing to the contrary by Sept. 1 of each fiscal year.

For more information, consult the SFA Web site at www.sfasu.edu/upp under General Regulations for Policy D-13, Student Records.

Academic Integrity

Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways, including providing instruction on the components of academic honesty and abiding by university policy on penalties for cheating and plagiarism.

Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) falsifying or inventing any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

A faculty member who has evidence and/or suspects that academic dishonesty has occurred shall gather all pertinent information, approach the student or students involved, and initiate the procedure outlined in university Policy A-9. 1. (Academic Integrity – www.sfasu.edu/upp).

After a determination of dishonesty, the faculty member shall notify the office of the dean of the student's major by submitting a Report of Academic Dishonesty form, along with supporting documentation as noted on the form. This report shall be made part of the student's record and shall remain on file with the dean's office for at least four years. The deans shall refer second or subsequent offenses to the University Committee on Academic Integrity established under policy A-9. 1. The faculty member also shall inform the student of the appeals process available to all SFA students (Policy A-2 – Academic Appeals by Students).

Students who are found to have cheated/plagiarized and have withdrawn prior to the award of a grade will continue to have the determination of the infraction within their student records. This finding will be considered by the University Committee on Academic Integrity should the student commit future offenses.

A student who wishes to appeal decisions related to academic integrity follows procedures outlined in policy A-2. A student must appeal within 30 days of the beginning of the long semester following the incident. The student's grade may be withheld by the instructor pending resolution through the above procedures.

If the student wishes further appeal, he/she may apply to the provost/vice president for academic affairs for a hearing by the University Committee on Academic Integrity.

A student must accept the decision of the committee; however, the committee may not interfere in the faculty member's selection of a penalty for a confirmed instance of academic dishonesty. If the committee rules that the student did not commit academic dishonesty, the faculty member may not impose a penalty of any kind. The faculty member retains the right to assign student course grades without interference from the committee. When a student is found guilty of two or more infractions, the case will be referred to the University Committee on Academic Integrity. In addition, faculty members may request that the dean refer particularly serious cases (buying or selling papers, stealing an exam, significantly plagiarizing at the graduate level, etc.) directly to the University Committee on Academic Integrity. The committee also may function when a student has exhausted the normal appeals process and wishes to have an additional hearing.

Departments Offering Graduate Courses and Programs

College of Applied Arts and Sciences

Communication

Criminal Justice

Social Work

College of Business

Accounting

Computer Science

Economics and Finance

General Business

Management, Marketing,
and International Business

College of Education

Elementary Education

Kinesiology and Health Science

Human Sciences

Human Services

Secondary Education and Educational Leadership

College of Fine Arts

Art

Music

Theater

College of Forestry and Agriculture

College of Liberal Arts

English and Philosophy

History

Modern Languages

Political Science, Geography, and Public Administration

Psychology

Sociology

College of Sciences and Mathematics

Biology

Biotechnology

Chemistry

Environmental Science

Geology

Mathematics and Statistics

Nursing

Physics

THE COLLEGE OF
APLIED ARTS AND SCIENCES

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**APPLIED ARTS
AND SCIENCES**



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W. JOSEPH OLIVER, GRADUATE PROGRAM COORDINATOR

BO 208A

Telephone: (936) 468-4001

Objectives of the Department

The Department of Communication offers graduate work and research opportunities for qualified students interested in extending their knowledge and understanding of the field. The main objective of the department is to promote an investigative and analytic atmosphere among students studying communication in order to expand their scholarly and professional skills.

The M.A. Program in Communication

The Master of Arts degree program emphasizes communication research and theory, media management and leadership, and the effects of communication practices and media operations upon society. The degree program is designed to serve three broad categories of students: (1) those who plan for careers in media-related fields and wish to meet specific professional development needs; (2) those who plan to teach their specialty at the high school, junior college or senior college level; and (3) those who seek scholarly advancement toward the doctorate in communication.

In order to gain clear admission to the program, applicants must meet all graduate admission requirements of the university and receive approval by the department. The M.A. in communication requires that all majors take Communication 500, 501, 502, 503, 510 and 512 and a sufficient number of additional approved courses necessary to complete the program requirements.

Students may select either a 36-hour degree program without a thesis or a 30-hour degree program with a thesis. The non-thesis program, with greater emphasis upon course work and less on research projects, may be preferable for the student who plans to terminate studies at the master's level; the thesis program, emphasizing a major research project, may be advisable for the student planning doctoral work. No minor outside of communication is permitted in the thesis program. In the non-thesis program, however, a student should ordinarily expect to take from nine to 15 hours outside the Department of Communication. Each student plans the program in consultation with the graduate program coordinator, who will be as flexible as possible in considering the student's particular interests and needs.

Communication Studies for Non-Majors

Students accepted into the graduate programs in other departments may, if the major program allows and if approved by the Department of Communication, select communication as a minor field of study. A minor in communication consists of nine or more semester hours of communication as approved by the graduate program coordinator. Also, communication may be selected and approved as an area of emphasis in the M.I.S. program described elsewhere in this bulletin, and courses in communication may be chosen as electives by non-majors, if course prerequisites have been met.

Graduate Assistantships

A limited number of graduate assistantships are awarded each fall and spring in the department. For information and application, contact the graduate coordinator or chair of the department.

Graduate Faculty

Professors

Jerry K. Frye, Ph.D., University of Michigan
 Larry L. King, Ph.D., University of Oklahoma
 W. Joseph Oliver, Ph.D., University of Mississippi
 Robert T. Ramsey, Ph.D., Bowling Green State University
 James E. Towns, Ph.D., Southern Illinois University

Associate Professors

Jean Y. Eldred, Ph.D., University of Oklahoma
 Alan L. Greule, Ph.D., Texas A&M University
 Gary H. Mayer, Ph.D., Baylor University
 Wanda Mouton, Ph.D., Texas A&M University

Courses in Communication (COM)

Unless otherwise indicated, courses are three semester hours credit.

- 401 Topics in Communication.** In-depth study of selected topics in communication. May be repeated when topic changes.
- 406 Professional Communication Skills.** Designed to give students an insight into professional communications skills, illustrated with examples from a broad range of business and professional settings.
- 421 Writing for Radio-Television.** Problems in the writing of dramatic and non-dramatic programs for broadcast purposes.
- 430 New Media.** An introduction to multimedia services and various research and publishing tools on the Internet and World Wide Web.
- 436 Psychology of Speech Communication.** Psychological processes underlying speech communication; emphasis on nature and origin of speech.
- 442 Radio-Television Programming.** Study of the programming function, analysis of programs, and implementation of effective broadcast schedules.
- 456 Advanced Television Production.** Development of imagination and

esthetic judgment in the production of television programs. Consent of instructor.

- 480 Student Publications Workshop.** A study of desktop publishing techniques for the production of publications in the teaching of journalism.
- 495 Special Problems In Communication.** 1-3 semester hours. Independent investigation of a special topic or project by the student with advice, approval and supervision by an instructor.
- 500 Introduction to Graduate Study.** Introduction to the nature of philosophy, theory and research in communication. Required of all communication majors and minors.
- 501 Management Problems In Media.** Analysis of management problems with special attention to policies, procedures, and organizational principles in media-related fields. Prerequisite: 12 hours of communication or consent of instructor.
- 502 Media Ethics.** A study of ethical theory and praxis within the context of the contemporary mass media.
- 503 Communication Theory.** An examination of major communication theories and selected contextual communication theories with regard to their development, implication and application.
- 507 Management of Meetings.** This course is designed to provide advanced study of and practical experience in special event and conference planning and arrangement
- 509 Broadcast Sales.** Techniques and procedures used in commercial broadcast sales. Combines classroom instruction and professional examples. Cross-listed with COM 409.
- 510 Persuasive Leadership.** An analysis of the communication processes involved in using persuasion to enhance leadership ability and style.
- 512 Mass Media In Society.** Examination of the interrelationship between mass media and society, with special emphasis upon media effects.
- 514 Rhetorical Theory and Criticism.** This course is designed to provide advanced study of the writings of principle rhetoricians from ancient to modern times, together with the application of principles drawn from these works in critical analysis.
- 515 Political Communication.** General overview and introduction to the study of political communication. Focus is on the relationship between mass media and the political process, political campaigns, and political consultants. Cross-listed with COM 415.
- 517 Interpersonal Crisis Communicaiton.** A study of the application of interpersonal communication principles and theories in situations involving personal crisis. Cross-listed with COM 412.
- 535 Intercultural Communication.** An application of communication theory to interactions between individuals of different cultures. Cross-listed with COM 435.
- 560 Issues Management and Crisis Response.** An examination of current practice in corporate communication issues management and crisis response. Cross-listed with COM 460.
- 570 Advanced Interpersonal Communication.** Development of in-

depth understanding and skills with regard to the complex features of interpersonal communication within personal and professional contexts. Cross-listed with COM 470.

- 575 Advanced Graduate Studies In Communication.** Individual instruction in selected topics concerning contemporary issues in communication. May be repeated under different topics.
- 576 Advanced Graduate Studies in Communication.** Same as Communication 575 but in a different topic area.
- 589* Thesis Research.** Research necessary to initiate thesis project; includes preliminary drafts of thesis. Grade withheld until completion of thesis. Prerequisite: Consent of adviser.
- 590* Thesis Writing.** Organization and revision of thesis for final submission to departmental committee and graduate dean. Prerequisites: Communication 589 and consent of adviser.

• A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis proposal has been approved.

DEPARTMENT OF CRIMINAL JUSTICE

PATRICK A. MUELLER,
CHAIR AND PROGRAM ADVISER
LA 410
Phone: (936) 468-4408

Objectives of the Department

The purpose of the criminal justice program is to prepare the student to become a practitioner in the field of justice administration. The program's goal is to provide both pre-service and in-service students with an expanded knowledge of institutions and processes of the criminal justice system.

Graduate Program

The university does not offer a graduate degree in criminal justice. Graduate students may take courses as part of a specialty option for the Master of Interdisciplinary Studies (M.I.S.) degree or take courses as electives to support their chosen graduate degree plan. Additionally, students in the Master of Public Administration program may use criminal justice as a minor.

Graduate Faculty

Professors

James O. Standley, Ph.D., Texas A&M University
Patrick A. Mueller, J.D., University of Houston

Associate Professor

John S. Boyd, Ph.D., Texas A&M University

Instructor

George R. Franks Jr., University of Arkansas-Little Rock

Courses in Criminal Justice (CJS)

Unless otherwise indicated, courses are three semester hours credit.

- 510 Agency Risk Assessment.** Analysis of risk factors in public safety agencies. Examination and development of procedures to eliminate or mitigate such factors.
- 513 Legal Research.** Legal research and terminology, including research methodology, law library familiarization and development of research skills through the use of law digests, encyclopedias, reporters, statutes and other library materials; writing case briefs and law memorandums.

- 514 Appeals and Briefs.** Development of advanced legal writing skills through preparation of appellate briefs.
- 520 Criminal Justice Planning.** Introduction to planning and evaluation techniques. Examines the design of experimental programs in the field of criminal justice.
- 531 Penology. The theories of punishment are examined.** The economic impact of these punishment models is compared within the context of the operation and function of confinement institutions.
- 560 Internship In Criminal Justice.** Supervised work experience with an approved justice agency.
- 575 Advanced Graduate Studies.** Directed independent study including in-depth research, reading and writing in the field of criminal justice.

MILITARY SCIENCE

The Military Science Program is a coeducational program designed to prepare students for positions of leadership in military service or civilian life. Seventy percent of all Army officers come from Army ROTC programs at universities throughout the country. The U.S. Army is earnestly seeking to attract mature young men and women with graduate degrees. Consequently, a special two-year military science program is available to graduate students.

By successfully completing this Military Science Program, a student is eligible to become an Army officer. Depending upon the individual's desires and the needs of the service, the graduate may serve on active duty for three years or serve in the National Guard or Army Reserve. Regardless of academic major, a student, through Military Science, should find direct application for the academic training received at the university or valuable training and experience in a related career field.

Requirements for Admission

Graduate students whose anticipated tenure at SFA is two years may participate in the pre-commissioning two-year program. They should bear in mind, though, that the courses required in the Military Science Program are not creditable for graduate degrees. The student's graduate program should be planned accordingly.

An interview with the department chair and a physical examination are required. A veteran of any military service, students who participated in any service ROTC, and those who participated in JROTC in high school are eligible to receive credit for the basic course of Army ROTC (first two years). If this does not apply, the student may attend the Leaders Training Course at Fort Knox, Ky., for five weeks during the summer. The Department of the Army pays travel to and from Fort Knox, and the student receives pay and allowances during the period of attendance.

The student receives a tax-free stipend of \$450-500 per month while participating in the Military Science Program. The student will attend the Leadership Development and Assessment Course during the summer between the two years of military science instruction.

All uniforms and equipment are issued by the Department of Military Science at no charge to the student. A number of government-funded postgraduate study programs are available to qualified students who complete the commissioning requirements.

Additional information concerning this program may be obtained in person at the Military Science Building, or by contacting the Department of Military Science at P.O. Box 13059, SFA Station, Nacogdoches, Texas 75962 or (936) 468-4505.

SCHOOL OF SOCIAL WORK

LINDA B. MORALES,
DIRECTOR AND ASSOCIATE DEAN

PETER T. SIMBI, INTERIM M.S.W. PROGRAM DIRECTOR

Telephone: (936) 468-4020

School Mission

The mission of the School of Social Work at Stephen F. Austin State University is to prepare competent and effective professional social workers committed to generalist and advanced practice able to respond to the needs of rural communities and to the challenges faced by people with rural lifestyles. The school is committed to providing leadership for the region, particularly in identifying and addressing community needs and issues, including those related to the alleviation of poverty and oppression within the context of rurality, cultural diversity, and social economic justice. In support of its educational endeavors, the school is dedicated to excellence in teaching, research, scholarship, life-long learning and community service.

School Objectives

Social work is a service-oriented profession that helps people to solve problems in living. The School of Social Work offers professional degrees in social work at both the bachelor's and master's levels. The Master of Social Work Program at Stephen F. Austin State University offers the Advanced Rural Generalist concentration in Social Work. In this concentration, Generalist and Advanced Generalist methods are used, and rurality is the context for practice.

The Rural Generalist concentration develops the knowledge, skills and values necessary to perform social work with individuals, families, groups, organizations, and communities in rural environments and with rural populations. This includes preparation for service provisions for a wide range of problems and systems, such as rural poverty, community development, social and economic justice, family violence, health and mental health, and others.

The Master of Social Work (M.S.W.) is designed to prepare graduates for entry into the social work profession at the advanced level. The M.S.W. will provide the basis for the development of autonomous practice skills.

Graduate Program

Stephen F. Austin State University offers the Master of Social Work degree (M.S.W.).

The M.S.W. is a 63-credit-hour program designed to be completed in either two years of full-time or four years of part-time academic study. The program does not require an undergraduate degree in social work for admission, but does require that

students who are deficient in the liberal arts base complete additional course work in order to prepare them for the professional foundation. Students must follow either the full or the part-time program.

Part-time students must complete the program within four years from the date of enrollment at SFA.

Accreditation

The M.S.W. program is accredited by the Council on Social Work Education.

Admission

In order to be considered for admission to the M.S.W. program, applicants must submit: 1) an SFA graduate school application, 2) official scores from the Graduate Record Examination, 3) official transcripts, 4) three letters of reference, 5) a supplemental application for the M.S.W. Program, and 6) a written statement of interest in social work. Application forms may be obtained from the School of Social Work or the SFA Graduate Office. Applications should be returned to the School of Social Work.

To be considered for clear admission, applicants should present either evidence of a GRE score of 1000 (combined Verbal and Quantitative scores) or an overall GPA of at least 2.8 and a GPA of 3.0 for the last 60 hours. Applicants who demonstrate outstanding qualifications on other admission criteria may be admitted on a probationary basis with GRE scores of 800 or an overall GPA of 2.6 and 2.8 GPA for the last 60 hours. All applicants are required to present GRE scores prior to admission, regardless of grade point average.

Advanced Standing

A limited number of students may be admitted to the advanced standing program. To be considered for advanced standing, applicants must have earned a bachelor's degree in Social Work from a program accredited by the Council on Social Work Education. Applicants admitted on probationary status are not eligible for advanced standing.

To receive advanced standing, an applicant must have made a minimum GPA of 3.0 in the last 60 credits of undergraduate course work. Advanced placement credit will be given for course equivalents in which the applicant has made a grade of either A or B.

Decisions on course equivalency credit will be made by the School of Social Work M.S.W. program director. Advanced placement credit may be awarded for SWK 500, SWK 501, SWK 502, SWK 504, SWK 505, SWK 507, SWK 512, SWK 515, SWK 519, and SWK 529. Advanced standing credit is not automatic, and students may be required to submit course equivalency information or successfully complete a competency examination before receiving credit for a course. All students who receive advanced standing must complete a minimum of 38 credit hours in order to receive the M.S.W. Part-time advanced standing students must complete the program in two years.

Transfer Credit

Students may transfer graduate course credits under the policies of the university. Transfer of courses for social work equivalency will be determined by the M.S.W. program director. To be considered for social work equivalency, a course must be 1) graduate level, 2) earned from a program accredited by the Council on Social Work

Education, and 3) have an earned grade of A or B. Field Instruction credit will not be awarded for prior work experience. Graduate courses from other disciplines will not be considered for transfer credit as electives.

Advising

Faculty advising of students is considered essential in the School of Social Work. The personal relationship with a faculty adviser helps each student progress throughout the program, begin socialization to the profession, and earn the M.S.W. degree. The advisement of students is carried out by full-time faculty members, and students are strongly encouraged to take advantage of the availability of their advisers. All faculty maintain regularly scheduled, posted office hours and are often available at other times by appointment.

On admission, each student is advised by the M.S.W. program director or the director's designee. After the initial advising meeting, each student is assigned a faculty adviser. The primary duties of the faculty adviser are: (1) to assist the student to design and file an educational plan, select courses, register for courses, and gain admission to candidacy, (2) to review the student's academic progress and academic standing, (3) to advise the student on all matters relevant to his/her progress in the program, and (4) to discuss the student's career interests in social work and development as a professional social worker.

Field Instruction

During the semester prior to the student's entrance into field instruction, the student must first meet with the director of field or the director's designee. At this time the process for application and selection of field instruction sites and other pertinent field policies and procedures will be discussed. Students also review a copy of the Graduate Field Instruction manual, which contains important field-related information and policies. Prior to this meeting, the student should direct questions regarding field instruction to the faculty adviser. The selection of an appropriate field instruction site is made by the school field director in consultation with the student. All prerequisites must be met before enrolling in field instruction.

M.S.W. students who have been terminated from a field instruction placement or who have made a grade of C or lower must repeat field instruction. Reinstatement in field instruction is not automatic. Students who must repeat field instruction must reapply for admission to field. In order to be reinstated in field, the student must state in writing how each of the problems/issues contributing to the original termination has been corrected. This includes the behaviors and/or skills-related issues that contributed to the original grade or decision to terminate the student. The field director, M.S.W. program director, school director and other faculty as appropriate will review and recommend whether or not the student will be readmitted to field instruction and may repeat the course. Students may repeat a field instruction course only once.

Termination from the Program for Behavioral Reasons

Appropriate and ethical conduct is critical for maintaining the integrity of the social work profession. Students in the M.S.W. program are considered members of the social work profession and eligible for membership in professional organizations. Social work students should conduct themselves as professionals and in accordance with the Code of Ethics of the National Association of Social Workers.

The grades that students earn in their courses are not the only indication of the students' ability to become professional social workers. Occasionally, students may behave in a manner that calls into question their ability to become social workers. The following policy provides a mechanism for reviewing students' behavior outside the classroom in terms of students' suitability for the social work profession: Students may be terminated from the social work program for behavioral reasons related to academic evaluation of students' suitability for the profession when there is clear evidence the student's behavior is unacceptable. Examples of behavior that may require review include, but are not limited to, violation of the NASW Code of Ethics, impairment due to substance abuse or mental illness, and conviction of a serious felony.

Graduate Faculty

Professors

Freddie L. Avant, , M.S.W., University of Missouri
Peter T. Simbi, Ph.D., University of Minnesota

Associate Professors

Sam Copeland, Ph.D., University of Houston
Sharon Templeman, Ph.D., University of Maryland

Assistant Professors

Kathleen Belanger, Ph.D., University of Houston
Michael Doughty, Ph.D., University of Texas
Linda Morales, Ph.D., University of Texas–Arlington

Instructor

Steve Cooper, M.S.W., Stephen F. Austin State University

Lecturers

Wilma Cordova, M.S.W., Michigan State University
Rebecca Peel, M.S.W., University of Illinois-Champaign-Urbana

Non-Advanced Standing Full-Time (2-year plan)

First Semester:

SWK 501- Introduction to the Social Work Profession	3	F
SWK 502- Human Behavior & the Social Environment I	3	F
SWK 504- Introduction to Rurality	3	F
SWK 505- Generalist Practice I	3	F
SWK 519- Field Instruction I	4	F
	16	

Second Semester:

SWK 500- Social Work Research Methods	3	F
SWK 507- Social Welfare Policy & Services	3	F
SWK 512- Rural Behavior and Environments II	3	F
SWK 515- Generalist Practice II	3	F
SWK 529- Field Instruction II	4	F
	16	

Third Semester:

SWK 510- Measurement & Statistics	3	AC
SWK 517- Rural Social Policy Analysis	3	AC
SWK 525- Advanced Generalist Practice	3	AC
SWK 535- Seminar in Advanced Rural Practice	3	AC
Elective-	<u>3</u>	AC
	15	

Fourth Semester:

SWK 530- Research Practicum	3	AC
SWK 539- Field Instruction III	11	AC
Elective-	<u>3</u>	AC
	17	

Total Credits 64

Advanced Standing Full-Time

Summer Session:

SWK 504- Introduction to Rurality	3	F
SWK 514- Advanced Standing Seminar	<u>4</u>	T
	7	

First Semester:

SWK 510- Measurement & Statistics	3	AC
SWK 517- Rural Social Policy Analysis	3	AC
SWK 525- Advanced Generalist Practice	3	AC
SWK 535- Seminar in Advanced Rural Practice	<u>3</u>	AC
	12	

Second Semester:

SWK 530- Research Practicum	3	AC
SWK 539- Field Instruction III	11	AC
Elective	<u>3</u>	AC
	17	

Total Credits 39

Advanced standing students must take SWK 504- Introduction to Rurality and SWK 514- Advanced Standing Seminar, 4 credits (T), in the summer preceding the fall semester. A thesis option (SWK 589 and SWK 590) may be substituted for SWK 530.
AC = Advanced concentration.
F = Professional foundation.
T = Transition course.

Non-Advanced Standing Part-Time (4-year plan)**First Semester:**

SWK 501- Introduction to the Social Work Profession	3	F
SWK 502- Human Behavior & the Social Environment I	3	F
SWK 504- Introduction to Rurality	<u>3</u>	F
	9	

Second Semester:

SWK 505- Generalist Practice I	3	F
SWK 507- Social Welfare Policy & Services	3	F
SWK 519- Field Instruction I	<u>4</u>	F
	10	

Third Semester:

SWK 512- Rural Behavior & Environments	3	F
SWK 515- Generalist Practice II	<u>3</u>	F
	6	

Fourth Semester:

SWK 500- Applied Research Methods	3	F
SWK 529- Field Instruction II	<u>4</u>	F
	7	

Fifth Semester:

SWK 510- Measurement & Statistics	3	AC
SWK 517- Rural Social Policy Analysis	3	AC
SWK 525- Advanced Generalist Practice	<u>3</u>	AC
	9	

Sixth Semester:

SWK 530- Research Practicum	3	AC
SWK 535- Seminar in Advanced Rural Practice	3	AC
Elective-	<u>3</u>	AC
	9	

Seventh Semester:

SWK 549- Advanced Field Instruction I	5	AC
Elective	<u>3</u>	AC
	8	

Eighth Semester:

SWK 559- Advanced Field Instruction II	<u>6</u>	AC
	6	

Total Credits 64

Advanced Standing Part-Time (2-year plan)

Summer Session:

SWK 504- Introduction to Rurality	3	F
SWK 514- Advanced Standing Seminar	<u>4</u>	F
	7	

First Semester:

SWK 510- Measurement & Statistics	3	AC
SWK 517- Rural Social Policy Analysis	3	AC
SWK 525- Advanced Generalist Practice	<u>3</u>	AC
	9	

Second Semester:

SWK 530- Research Practicum	2	AC
SWK 535- Seminar in Advanced Rural Practice	3	AC
Elective	<u>3</u>	AC
	8	

Third Semester:

SWK 549- Advanced Field Instruction III	5	AC
Elective	<u>3</u>	AC
	8	

Fourth Semester:

SWK 559- Advanced Field Instruction II	<u>6</u>	AC
	6	

Total Credits 39

Advanced standing students must take SWK 504- Introduction to Rurality and SWK 514- Advanced Standing Seminar, 4 credits (T), in the summer preceding the fall semester. A thesis option (SWK 589 and SWK 590) may be substituted for SWK 530.

AC = Advanced concentration.

F = Professional foundation.

T = Transition course.

Courses in Social Work (SWK)

Unless otherwise indicated, courses are three semester hours credit.

- 425G Multicultural Social Work.** Study of the manner in which cultural diversity, ethnic diversity, and oppression influence Generalist Social Work Practice. Prerequisite–Graduate standing.*
- 500 Applied Research Methods.** Application of research methods in social work settings. Quasi-experimental research, evaluation research, single subject designs, and epistemology are presented. Prerequisite–Graduate standing.*
- 501 Introduction to the Social Work Profession.** Introduction to the social work profession. Topics include: philosophy and history of the profession, social work values and ethics, social work organizations and licensure, and contexts for social work content. Prerequisite–Graduate

standing.*

- 502 Human Behavior and the Social Environment I.** The person-in-environment model for Generalist social work. The course uses a strengths perspective and a problem-solving focus to understand human behavior in individual, family and naturally occurring groups. Prerequisite–Graduate standing. Demonstrated knowledge of human biology.*
- 504 Introduction to Rurality.** This course introduces students to social work in the rural context. Issues related to social work Practice, rural communities, rural behavior, and social welfare policy are presented. Prerequisite–Graduate standing.*
- 505 Generalist Practice I.** Generalist model of social work practice with individuals, families and naturally occurring groups. Topics include engagement, data collection, assessment, planning, termination, and evaluation. Prerequisite - Graduate standing. Demonstrated knowledge of human biology and multicultural content. Corequisite–SWK 502.*
- 507 Social Welfare Policy and Services.** Foundation content related to the history, philosophy, structure, and function of social welfare policy and services is presented in this course. A survey of social welfare services and current issues related to these services also is presented. Concepts related to social and economic justice are emphasized throughout the course. Prerequisites–Graduate standing.*
- 510 Measurement and Statistics.** Research content at the advanced level. Topics presented include: Critical thinking, Epistemology, design, statistical applications, and program evaluation. Students design an original research project as part of this course. Prerequisite–Graduate standing. Demonstrated knowledge of measurement and data analysis.* AC
- 512 Human Behavior and Social Environment II.** The person-in-environment model for generalist practice. The course uses a strengths perspective and a problem-solving focus to explain tasks group, community and organizational behavior in a rural context. Prerequisite–Graduate standing. SWK 500, SWK 502, SWK 504, SWK 505, and SWK 507 or equivalents. Corequisite–SWK 515.* AC.
- 514 Advanced Standing Seminar.** Four credits. This seminar is required for advanced standing students and is designed to strengthen and enhance the transition of B.S.W.s into the M.S.W. program. The course derives content from the professional foundation and the advanced rural generalist concentration. Prerequisite–Advanced standing.
- 515 Generalist Practice II.** Generalist model of social work practice with task groups, organizations and communities. Prerequisite–Graduate standing. SWK 500, SWK 502, SWK 504, SWK 505, and SWK 507 or equivalents. Corequisite–SWK 512.*
- 517 Rural Social Policy Analysis.** Advanced content on analysis of social policy in a rural context. Concepts related to the promotion of social and economic justice by social workers are emphasized. Prerequisite–Graduate standing. SWK 500, SWK 502, SWK 504, SWK 505, and SWK 507 or equivalents.* AC.
- 518 Child Welfare Services.** Two credits. An overview of theory, policy, services, and practice issues related to social work in the child and

- family field of practice. Prerequisite–Graduate standing.
- 519 Field Instruction I.** Four credits. Educationally supervised practice in a social welfare agency setting under the direct supervision of a professional social worker. Two hundred forty (240) hours of agency experience and one (1) hour weekly integrative seminar are required for the semester. Prerequisite–Graduate standing. SWK 500, SWK 502, SWK 504, SWK 505, and SWK 507 or equivalents.
- 525 Advanced Generalist Practice.** Advanced application of the generalist model in working with individuals, families and naturally occurring groups. Prerequisites–SWK 510, SWK 512, SWK 515, SWK 517, and SWK 519. * AC.
- 528 Social Work in Mental Health.** Three credits. An overview of theory, policy, services, and practice issues related to social work in the mental health field. Prerequisite–Graduate standing.
- 529 Field Instruction II.** Four credits. Continuation of supervised agency practice begun in SWK 519. Two hundred forty (240) hours of agency experience and one (1) hour weekly integrative seminar are required for the semester. Prerequisites – SWK 519 or equivalent and SWK 510, SWK 512, SWK 515, and SWK 517.
- 530 Research Practicum.** 2 credits. Individual student research performed under the direction of Social Work faculty. Final report should contribute to Social Work knowledge. Prerequisites–SWK 500, SWK 510, SWK 512, SWK 517, and SWK 519. AC.
- 535 Seminar in Advanced Rural Practice.** This seminar focuses on rural case management, supervision, administration, and community practice in rural agencies and communities. It includes content on planning, services integration, evaluation, resources assessment and acquisition. Prerequisites–SWK 507, SWK 512, SWK 521, SWK 529 or advanced standing.
- 538 Social Work with the Aged.** Three credits. An overview of theory, policy, services and practice issues related to social work with the elderly. Prerequisite–Graduate standing.
- 539 Field Instruction III.** Eleven credits. Advanced social work practicum in an agency setting under the direct supervision of a professional social worker. Thirty two (32) hours per week of agency experience and a two (2) hour weekly seminar are required. Prerequisites–SWK 521, SWK 529.
- 549 Advanced Field Instruction I.** Five credits. Advanced field instruction for part-time students. Sixteen (16) hour per week of agency instruction and a two (2) hour weekly seminar are required.
- 559 Advanced Field Instruction II.** Six credits. Advanced field instruction for part-time students. Sixteen (16) hours per week of agency instruction a two (2) hour weekly seminar are required. Continuation of SWK 549.
- 575 Advanced Graduate Studies.** One to three credits. Directed independent study in social work: includes in-depth research, reading, and writing about Social work issues.
- 578 Seminar in Social Work.** One to three credits. Various topics in social work. May be repeated for credit. Prerequisite–Graduate standing.
- 589 Thesis Research.** Two credits. Research for preparation of thesis.

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VIOLET C. ROGERS, DEAN

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NELSON RUSCHE COLLEGE OF
BUSINESS

VIOLET C. ROGERS, DEAN

MICHAEL D. STROUP, ASSOCIATE DEAN AND M.B.A. DIRECTOR

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Mission

The College of Business provides a student-focused learning environment through effective teaching supported by relevant research and meaningful service. These endeavors assist our students in becoming competent and ethical professionals in a changing world.

Graduate Programs and Objectives¹

The College of Business offers graduate programs leading to the Master of Business Administration (M.B.A.) degree, the Master of Professional Accountancy (M.P.A.) degree, and the Master of Science (M.S.) degree with a major in computer science. The M.B.A. program provides advanced training in the theory and practice of management. The program is designed to enhance the managerial decision-making skills of the student and to prepare the student to progress through increasing levels of responsibility. The M.P.A. program is designed to prepare the student for a career in professional accounting and to meet the education requirements for CPA certification in the state of Texas. The M.S. program and its purposes are described in the Department of Computer Science section of this bulletin.

M.B.A. Program

Admission

Entrance into the M.B.A. program is open to all students holding a baccalaureate degree without regard to major. It is not necessary to have any previous business course work to be admitted.

Applicants should take the Graduate Management Admission Test (GMAT) at least two months prior to enrollment (scores more than five years old at the time of application are not normally accepted).

An admission application form must be completed and submitted to the Office of the Graduate School and official transcripts must be sent from all colleges and universities attended. The deadline for receipt of all material (including GMAT score) is 30 days prior to registration for the semester in which the student desires to enroll.

The acceptance decision is based on a combination of undergraduate grade point average (GPA) and GMAT score. To be accepted, a candidate must have either a value of at least 950 using the formula $(\text{overall GPA} \times 200) + \text{GMAT score}$, or a value of at least 1,000 using the formula $(\text{upper-division GPA} \times 200) + \text{GMAT score}$. For purposes of this formula, "upper-division" is defined to be either the last 60 hours of undergraduate course work (excluding freshman-level courses) or all junior / senior courses. A student whose native language is not English also must present a score of at

least 213 on the computer-based Test of English as a Foreign Language (TOEFL) or 550 on the paper based test. Exceptions to these standards are considered on a case-by-case basis.

Program of Study

Each M.B.A. student's degree plan is customized according to his or her background. Students lacking math or computer skills begin with one or more of the following undergraduate "prerequisite" courses: CSC 121, MTH 143, MTH 144, and MTH 220 (see the General Bulletin for descriptions).

Graduate course work is divided into two categories: "leveling" courses and a required core. Leveling courses cover the common body of business knowledge that would normally be found in an undergraduate business curriculum. The following 21 semester hours are included: ACC 501, CSC 503, ECO 502, ECO 515, FIN 504, MGT 512, and MKT 508. Depending on the student's background, some or all of the leveling courses may be waived by the M.B.A. director. For a course to be waived, the student must normally have completed comparable undergraduate or graduate business course work from a regionally accredited university with grades of B or better within the last five years. The following undergraduate courses (or their equivalents) are the most helpful: ACC 231; CSC 340; ECO 231, 232, 339; FIN 333; MGT 370, 371, 463; MKT 351 (see the General Bulletin for descriptions).

All M.B.A. candidates are required to complete a 36-semester-hour core. These courses refine business knowledge by exploring business theories and applications and applying the knowledge to real-world situations. The core consists of: ACC 511, BLW 547, ECO 520, FIN 514, MGT 571, MGT 577, MGT 517, MKT 513, and 12 semester hours of approved business electives. Students who select their electives so as to have 18 graduate hours in management may declare a major in that subject; all others major in general business. Each M.B.A. student must make a grade of "B" or better in the capstone MGT 517 course to satisfy the university comprehensive exam requirement.

M.P.A. Program

The M.P.A. is an integrated undergraduate/graduate program that requires 156 semester credit hours of course work, of which 120 hours are undergraduate and 36 hours are graduate. Upon completion, the student is simultaneously awarded a Bachelor of Business Administration degree and a Master of Professional Accountancy degree, each with a major in accounting. To begin the undergraduate portion of the M.P.A. program, a student need only be admitted to the university as described in the General Bulletin. Admission to the graduate portion of the M.P.A. program is a two-step process as described in the Department of Accounting section later in this bulletin.

The stand alone M.P.A. program is open to all students holding a baccalaureate degree without regard to major. To be admitted to graduate status as an accounting major, a student must meet the requirements for admission to graduate school. Prior to

* The M.B.A. and M.P.A. degree programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business. Accreditation assures quality and promotes excellence and continuous improvement in undergraduate and graduate education for business administration. These programs meet exacting standards in areas such as faculty qualifications, curriculum, admissions and resources.

admission to candidacy, the student must have completed courses equivalent to ACC 231, ACC 232, ACC 331, ACC 332, ACC 333, ACC 343, ACC 437, ACC 465, ECO 502, ECO 515 and FIN 504.

M.P.A. students are subject to the same test score requirements as described for the M.B.A. program above, and degree requirements for the M.P.A. are outlined in the Department of Accounting section. The determination of which bulletin to follow is made according to the criteria published in the General Bulletin.

M.B.A./M.P.A. Program Notes

1. All requirements must be completed within six years of first graduate enrollment.
2. To remain in good standing, students must have a 3.0 GPA (B average) on all graduate work.
3. No Ds and no more than two Cs may be counted toward graduate degree requirements.
4. No more than two graduate classes may be repeated (only the higher grade counts for repeats). The GPA may **not** be improved by retaking a course at another university.
5. With consent of the appropriate program director, at most six hours of graduate coursework may be transferred in from an AACSB-accredited school.

Minors

A graduate student enrolled in another department of the university may minor in either general business or management. The general business minor consists of nine to 15 hours of business courses numbered 500 and higher from at least three different subject areas (for this purpose, ECO 502 is considered to be in a different subject area from other ECO courses). The management minor consists of nine to 15 hours of management courses numbered 500 and higher. No non-business major may have more than 50 percent of his or her graduate program in business courses.

DEPARTMENT OF ACCOUNTING

TREBA A. MARSH, CHAIR

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Objectives

The Department of Accounting offers an integrated Master of Professional Accountancy degree program, a Stand Alone M.P.A. program, and offers courses that support the M.B.A. degree. The overall objective of the department is to provide an academic program that enables students to prepare for entry into the profession of accountancy. The curriculum is intended to increase the student's understanding of accounting and to be responsive to the changing requirements of the accounting profession.

The M.P.A./B.B.A. program leads to a Master of Professional Accountancy degree for those who are primarily interested in pursuing a career in public accounting. The program contains 156 hours of course credit and complies with all the educational requirements for those who wish to take the CPA exam. A bachelor's degree is awarded simultaneously with the M.P.A. The five-year degree program covers concepts of financial accounting, managerial accounting and information systems for accounting and management. These subjects make up the core of the accounting curriculum. Students also gain critical knowledge in the areas of auditing and taxation.

The Stand Alone M.P.A. program is a 36 semester hour core. Leveling courses cover the common body of accounting knowledge that would normally be found in an undergraduate curriculum. The following 33 semester hours are included: ACC 231, ACC 232, ACC 331, ACC 332, ACC 333, ACC 343, ACC 437, ACC 465, ECO 502, ECO 515 and FIN 504. Depending on the student's background, some or all of the leveling courses may be waived by the M.P.A. director. For a course to be waived, the student must normally have completed comparable undergraduate or graduate business course work from a regionally accredited university with grades of B or better within the last five years. The Stand Alone program covers concepts in financial accounting, managerial accounting, auditing and taxation.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department. For information and applications, contact the chair of the department.

Graduate Faculty

Professors

Jack R. Ethridge, Ph.D., University of Arkansas, Financial Accounting
Susan Y. Ormsby, Ph.D., University of Arkansas, Managerial Accounting
Violet C. Rogers, Ph.D., University of North Texas, Financial Accounting and Legal
Aileen Smith, Ph.D., Louisiana State University, International Accounting
Sammie L. Smith, Ph.D., University of Arkansas, Financial Accounting
Mark A. Turner, D.B.A., University of Memphis, Managerial Accounting and Taxation

Associate Professor

Treba A. Marsh, D.B.A., Louisiana Tech University, Governmental Accounting

Five-Year Program*
Bachelor of Business Administration–
Master of Professional Accountancy Program

Freshman Year

Freshman ENG	3	Freshman ENG	3
MTH 143	3	MTH 144	3
Science	4	Science.....	4
HIS or PSC.....	3	HIS or PSC	3
ART/MUS/THE/DAN.....	3	CSC 121	3
	16		16

Sophomore Year

ACC 231	3	ACC 232	3
ECO 231	3	ECO 232	3
MTH 220	3	BCM 247	3
ENG 273	3	HIS or PSC	3
HIS or PSC	3	COM 111.....	3
	15	ENG LIT/PHI/HIS.....	3
			18

Junior Year

ACC 331	3	ACC 332	3
ACC 333	3	ACC 343.....	3
CSC 340	3	ECO 339.....	3
FIN 333	3	BLW 335.....	3
GBU 325.....	3	MGT 370	3
Elective.....	1		15
	16		

Senior Year

ACC 453	3	**ACC 512	3
MGT 371	3	ACC Elective (Grad Credit)	3
Elective	3	MGT 463	3
ACC 442.....	3	ACC 465	3
MKT 351	3	ACC 437	3
	15		15

Graduate Year

ACC 533	3	ACC 532	3
FIN 514 or 554	3	ACC Elec (Grad Credit).....	3
ACC 547	3	ACC Elec (Grad Credit).....	3
Elective (Grad Credit).....	3	Elective (Grad Credit).....	3
Elective (Grad Credit).....	3	BLW 547 or FIN 510	3
	15		15

**M.P.A./B.B.A. degree consists of 120 hours undergraduate and 36 hours graduate*
***A student must apply for admission and be admitted to the M.P.A. program and graduate school no later than the semester prior to the first semester of enrolling in any 500- level course. The two-step admission process is:*

- 1. Receive clear admission to the M.P.A. program. Requirements for admission are:
 - a) completion of at least 75 hours (including all 100/200 level courses plus ACC 331)
 - b) cumulative GPA of 2.5
 - c) C or better in all accounting courses completed at the time of admission and maintain a C or better in all undergraduate accounting courses.
- 2. Receive clear admission to graduate school. Requirements include:
 - a) present satisfactory score on Graduate Management Admission Test (GMAT). See formulas in the College of Business section.
 - b) file formal application for admission to graduate school.

M.P.A. Stand Alone Program

Foundation of Knowledge:

BLW 547 - International Legal Environment of Business
or FIN 510 - International Finance;
FIN 514 - Advanced Financial Management
or FIN 554 - Investment Analysis and Portfolio Management;
plus nine hours of graduate electives, three of which may be ACC 585- Internship in Accounting

Accounting Requirements:

ACC 512 - Seminar in Accounting Research;
ACC 532 - Legal Principles Related to Accounting;
ACC 533 - Advanced Topics in Management Accounting;
ACC 547 - Seminar in Auditing;
plus nine hours of graduate accounting electives

Courses in Accounting (ACC)

Unless otherwise indicated, courses are three semester hours credit.

- 501 Financial Accounting.** Study of the accounting process for external reporting purposes. Recommended for students with no accounting background.
- 511 Accounting For Management.** Use of accounting data in the managerial decision-making process and in the analysis and control of business operations. Prerequisite: ACC 501 or equivalent and CSC 503.
- 512 Seminar in Accounting Research.** The study of proper accounting research and reporting techniques. Prerequisite: M.P.A. graduate standing or ACC 511 and ECO 502, or equivalents.
- 521 International Accounting.** A study of critical issues and differences in the global accounting environment. Prerequisites: ACC 231 and 232, or 511.
- 531 Seminar in Not-for-Profit Accounting Principles.** Study of accounting and auditing principles as they apply to governmental and not-for-profit entities. Prerequisite: ACC 331.
- 532 Legal Principles Related to Accounting.** Intensive study of legal principles which arise in the practice of accounting. Prerequisite: BLW 335.
- 533 Advanced Topics in Management Accounting.** Study of decision making and performance evaluation techniques in management accounting. Prerequisite: ACC 333.
- 537 Seminar in Auditing.** Study of financial auditing standards and theory. Prerequisites: ACC 332 and ECO 339.
- 542 Advanced Financial Accounting II.** Advanced financial accounting topics continued. Prerequisite: ACC 442.
- 543 Advanced Tax I.** Study of tax problems related to taxable entities. Prerequisite: ACC 343.
- 547 Advanced Auditing.** Application of audit theory to public accounting. Prerequisite: ACC 437.
- 549 Advanced Accounting Practicum.** Study of practical applications of accounting theory. Prerequisites: ACC 332 and 333.
- 551 Seminar in Oil and Gas Accounting.** Study of accounting principles related to the oil and gas industry. Prerequisite: ACC 331.
- 553 Advanced Tax II.** Comprehensive study of tax research methodology. Prerequisite: ACC 343.
- 557 Seminar in Internal Auditing.** Study of internal audit theory and practice. Prerequisite: ACC 437.
- 563 Contemporary Issues in Accounting.** Study of contemporary issues in accounting and their development in accounting theory. Prerequisite: ACC 332.
- 570 Advanced Topics in Accounting.** One to three semester hours. Advanced topical studies in various aspects of accounting. Titles and topics will vary. May be repeated with a change of topic up to a

- maximum of three total graduate hours.
- 575 Advanced Graduate Studies.** Students are individually assigned to an instructor on the basis of the type of studies needed for the programs pursued. May be repeated under different topics.
- 576 Advanced Graduate Studies.** Same as 575 but in a different topic area.
- 578 Seminar.** May be repeated.
- 585 Internship in Accounting.** One to three semester hours. Internship in an accounting position with faculty supervision. May be used for free elective hours but not for "Accounting Elective (graduate credit)" as specified in the five-year accounting program. Prerequisites: Student must be admitted to M.P.A. program and graduate school. Approval of department chair and supervising instructor.

DEPARTMENT OF COMPUTER SCIENCE

CRAIG A. WOOD, CHAIR

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Objectives

The Department of Computer Science administers a Master of Science degree program and offers courses that support other graduate programs of the university. In a broad sense, graduate studies provided by the department are intended to increase the student's understanding and intellectual maturity in computer science. The curriculum is designed to be responsive to the dynamic requirements of the computer science field and to the needs of the variety of students who are interested in computing.

In particular, four categories of students are served: (1) those who plan to work toward a doctoral degree in computer science; (2) those who plan to seek employment as computing professionals in business, industry, government, or education; (3) those who plan to engage in a computer science or information systems teaching career at the junior college level; and (4) those who desire to obtain some computer science proficiency in support of another major field of study. Students in the first three categories will work toward the Master of Science degree with a major in computer science, while those in the fourth category may minor in computer science or take selected computer science courses as electives.

Admission Requirements

To be admitted to graduate status as a major in computer science, a student must meet the requirements for admission to the Graduate School and must have completed courses equivalent to CSC 202, 214, 241, 342, and 343, plus three advanced semester hours in computer science (CSC 323 is recommended). Additionally, before a student can gain admission to candidacy, he/she must have met the department proficiency requirements in English, mathematics and a core of computer science courses.

This information may be obtained from the Department of Computer Science office. CSC 503 may not be counted toward a major in computer science.

Graduate Programs in Computer Science

The Master of Science degree with a major in computer science requires a minimum of 24 semester hours of coursework in computer science, including a core of computer science courses specified by the department. Three program options are available to students who major in computer science. The first option is a non-thesis program that consists of a total of 36 semester hours of course work and requires the computer science major to minor in some field other than computer science. The second option

also is a non-thesis program that consists of a total of 36 semester hours of computer science course work that includes a six-hour computing project. The third option is a thesis program that requires 30 semester hours of computer science course work that includes six semester hours of thesis research and writing. In general, students who do not have an undergraduate computer science major will be required to choose either the project or thesis program. The Department of Computer Science requires all master's degree students to pass a comprehensive oral examination.

As part of any other graduate degree program offered by the university, a computer science minor consists of a minimum of nine semester hours of computer science. CSC 503 may not be counted for credit toward the minor.

Facilities for Graduate Work

The Department of Computer Science is located in the McGee Building. In addition to utilizing the central computer system that is located in the university Computer Center, the department maintains a computing laboratory containing microcomputer system, printers, and communications equipment with access to the campus network and the Internet. In addition, a wide variety of software is available in the laboratory for student use. A network of Sun workstations and a Beowulf cluster provide instructional and research support for faculty and graduate students.

Student Organizations

The Computer Science Club is sponsored by the Department of Computer Science and is open to all students. This organization should be of particular interest to students who desire to become acquainted with the computing profession, computing professionals, and students with similar interests.

Membership in Upsilon Pi Epsilon, the computer science honor society, is for selected juniors, seniors, and graduate students who maintain specified scholastic standards. Students who want to be considered for this honor should consult the Delta Chapter faculty adviser or a student officer.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year by the department. For graduate assistantship information and applications, contact the chair of the department.

Graduate Faculty

Professors

Robert G. Strader, Ph.D., Texas A&M University, Parallel and Distributed Processing, Parallel Algorithms, Artificial Intelligence, Simulation, Computer Networks, Computer Architecture, Computer Graphics

Michael M. Pickard, Ph.D., Mississippi State University, Software Engineering, The Software Process, Software Metrics

Craig A. Wood, Ph.D., Florida State University, Numerical Analysis, Computer Graphics, Programming Languages, Computer Applications

Assistant Professors

Deborah L. Dunn, Ph.D., Texas A&M University, Database Management Systems,
Business Applications

Minho Park, Ph.D., University of Florida, Modeling and Simulation, Semantic Web,
Visualization, Human-Computer Interaction, Aesthetic Computing, Computer
Graphics

Courses in Computer Science (CSC)

Unless otherwise indicated, each course carries three semester hours credit and meets three hours per week.

- 421 Applied Operations Research.** Computerized approaches to decision making using linear programming and other quantitative techniques. Prerequisites: CSC 241; MTH 144 or 233; MTH 220.
- 425 Database Management Systems.** Study of database management systems. Design and implementation of applications using database management systems. Prerequisites: CSC 241; CSC 321 or 331; three additional advanced hours of computer science excluding CSC 340, 350, and 385.
- 431 Systems Simulation and Model Building.** Simulation methodology, generation of random variates, design of experiments with deterministic and stochastic models. Prerequisites: CSC 241; MTH 144 or 233; MTH 220.
- 435 Teleprocessing and Data Communications.** Functional evolution and role of data communications. Considerations in data communications. Applications in general. The design issues. System components and their interrelationships. Networks. Satellite communications. Prerequisites: CSC 241, 343.
- 441 Principles of Systems Programming.** Operating systems principles, systems utilities, language processors and user interfaces. Prerequisites: CSC 214, 241; CSC 323 or 342 or 343.
- 445 Computer Graphics.** An overview of the hardware, software and techniques used in computer graphics. Graphics primitives, two-dimensional transformations, painting, windowing and clipping. Three-dimensional graphics including hidden lines and surfaces, and shading. Prerequisites: CSC 241; CSC 323 or 342 or 343; MTH 133.
- 503 Decision Support Software with Applications.** Operating systems, spreadsheets, graphing, statistical analysis and interpretation, database management systems, network environment, current topics in business computing. For non-computer science students. Prerequisites: CSC 121 and MTH 220.
- 511 Programming Languages.** Issues of programming language design including data abstraction, concurrency, exception handling, subprograms, data types, control structures, and describing syntax and semantics. Alternative paradigms such as imperative, functional, logic, and object-oriented. Prerequisite: Nine advanced hours of computer

- science (CSC 441 is recommended).
- 513 Software Development Principles.** State-of-the-art principles of software design and development. Theories, methodologies, techniques, and tools of software engineering. Case studies. Prerequisite: Nine advanced hours of computer science.
- 524 Database Management Systems.** Architecture and Management. Examination and appraisal of the fundamental technology of database management systems and of the practice of database systems design, database administration and DBMS acquisition. Prerequisite: CSC 425 or approval of computer science graduate adviser.
- 541 Compiler Principles and Techniques.** Language theory, grammars and recognizer, methods for lexical analysis, top-down and bottom-up parsing, code generation, run-time structures, optimization, error handling. Prerequisites: CSC 342, 441.
- 542 Operating System Concepts.** Operating system structures, concurrent processes, resource scheduling, memory management, file systems and protection, distributed systems. Prerequisites: CSC 342, 441.
- 555 Artificial Intelligence and Expert Systems.** Use of computers in heuristic problem solving, theorem proving and pattern matching. Methods for knowledge representation, searching, language processing, automated reasoning, and image analysis. Application of methods to problem solving using expert systems. Prerequisite: Nine advanced hours of computer science.
- 563 Computer Networks and Distributed Systems.** Communication models and protocols. Distributed algorithms and analysis. Distributed systems architectures and communications. Latest developments in communication technology including hardware, software and applications. Prerequisites: CSC 342 and six advanced hours of computer science (CSC 435 is recommended).
- 565 Computer Architecture and Parallel Processing.** Organizational and operational analysis of digital computers at the component and functional levels. Design and performance issues. Algorithms and architectures for parallel processors. Prerequisite: Nine advanced hours of computer science (CSC 343 is recommended).
- 575 Advanced Graduate Studies.** One to three semester hours. Individual assignments. May be repeated under different topics.
- 580 Independent Studies Project.** One to six semester hours. Design and development of a selected project. May be repeated for a total of six credit hours.
- 589* Thesis Research.** Research necessary to initiate the thesis work. Grade withheld until completion of thesis. Prerequisites: Completion of 12 semester hours of graduate computer science courses and approval of the thesis director and of the department chair.
- 590* Thesis Writing.** Three, six, nine semester hours. Writing of the thesis. A student must be enrolled in this course the semester she/he graduates. Prerequisites: CSC 589, admission to degree candidacy, approval of thesis prospectus, and approval of the thesis director and of the department chair.

DEPARTMENT OF
EECONOMICS AND FINANCE

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Objectives

Graduate courses in economics and finance may be taken as part of the requirements in the M.B.A. program and also may be used as part of a graduate minor in business administration for non-M.B.A. graduate degree programs. Economics and finance courses help the graduate student to better understand the complex economic environment in which today's business firms and other institutions must operate. They also expose the student to modern techniques of research and quantitative analysis that are helpful in making optimal managerial decisions.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department. For information and applications, contact the department chair.

Graduate Faculty

Professors

Clifton T. Jones, Ph.D., Texas A&M University, Economics

John H. Lewis, D.B.A., Louisiana Tech University, Finance

J. Bert Stine, D.B.A., Louisiana Tech University, Finance

Michael D. Stroup, Ph.D., Florida State University, Economics

Associate Professors

T. Parker Ballinger, Ph.D., University of Houston, Economics

James E. Howard, Ph.D., University of Georgia, Resource Economics

Jan M. Serrano, Ph.D., Virginia Tech, Finance

Assistant Professors

S. Kyle Jones, Ph.D., University of Mississippi, Finance

Stephen M. Kosovich, Ph.D., University of Oregon, Economics

Mark A. Scanlan, Ph.D., University of Florida, Economics

G. Demarcus Simmons, Ph.D., Texas A&M University, Finance

Mark A. Thompson, Ph.D., Texas Tech University, Economics

Courses in Economics (ECO)

Unless otherwise indicated, courses are three semester hours credit.

- 502 Quantitative Analysis.** Applications of statistical analysis to business and economic problems. Topics covered include statistical introduction, analysis of relationships through regression and correlation analysis; and analysis of business change. Prerequisite: CSC 503 or equivalent.
- 515 Introduction to Economics.** An introduction to the behavioral science of economics that examines the behavior of individuals such as consumers, firms and resource owners as well as the aggregate behavior of broadly defined social groups such as households, industry and government, with an emphasis on the application of theory to everyday issues. Topics covered include basic price theory, governmental regulation, international trade, comparative economic systems, gross domestic product, inflation, unemployment, fiscal and monetary policy. Recommended for students without any economics background.
- 520 Managerial Economics.** Application of economic analysis in formulating business decisions, drawing upon the theoretical foundations of the concepts of demand, cost, production, profits, and competition, with special emphasis on case studies. Prerequisite: ECO 515
- 575 Advanced Graduate Studies.** Individual instruction in economics according to the needs of individual students. May be repeated for credit under different topics.

Courses in Finance (FIN)

Unless otherwise indicated, courses are three semester hours credit.

- 504 Financial Management.** Devoted to a study of the concepts, processes, and institutions in financing business firms. Prerequisites: ACC 501; CSC 503; ECO 502 or equivalent.
- 510 International Finance.** Selected topics in international financial management and international financial markets. Prerequisite: FIN 504 or equivalent.
- 514 Advanced Financial Management.** Employment of the case method to examine financial theories and concepts in practical situations and to develop analytical skills and judgment ability in solving financial problems of business firms. Prerequisite: FIN 504 or equivalent.
- 554 Investment Analysis and Portfolio Management.** A thorough study of investment analysis techniques and problems of portfolio selection and management. Prerequisite: FIN 504 or equivalent.
- 575 Advanced Graduate Studies.** Individual instruction based on the type of studies needed for the programs pursued. May be repeated for credit under different topics.

DEPARTMENT OF GENERAL BUSINESS

CHAIR TO BE NAMED

McGee 229

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Objectives

The graduate studies in General Business provide background knowledge in business law and business communication as well as provide an option in the M.B.A. program for a student to develop a curriculum to meet individual objectives through study in various business administration areas.

A student interested in the M.B.A. with a General Business emphasis must meet the admission requirements listed in this bulletin.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department. For information and applications, contact the chair of the department.

Graduate Faculty

Professors

Marsha L. Bayless, Ed.D., Oklahoma State University, Business

Communication and Business Education

Timothy W. Clipson, Ed.D., Oklahoma State University, Business

Communication, Business Education, Business Training and Development

Debbie D. DuFrene, Ed.D., University of Houston, Business Education and

Business Communication

Betty S. Johnson, Ed.D., University of Arkansas, Business Education and Business

Communication

Marlin C. Young, Ed.D., Arizona State University, Business and

Organizational Communication

Associate Professor

Florence E. Elliott-Howard, J.D., South Texas College of Law, Business Law

Assistant Professor

J. Keaton Grubbs, J.D., Texas Tech University, Business Law

Courses in Business Communication (BCM)

Unless otherwise indicated, courses are three semester hours credit.

- 530 Seminar in Business Communication Theory.** Interdisciplinary approach to communication as related to the business organization. Readings and case studies in areas such as corporate image and identity, diversity, corporate culture, technology, crisis management, community relations and international issues.
- 578 Seminar.** May be repeated.

Courses in Business Law (BLW)

- 537 Seminar in Legal Studies in Business.** Selected topics in legal studies in business. Readings and legal research in areas such as law and ethics, employment, privacy, environmental protection and property rights, advertising, and products liability; includes an examination of selected administrative agencies involved in the regulation of business activities.
- 547 The International Legal Environment of Business.** An examination of the legal aspects of the global marketplace with emphasis on international law and comparative law in areas such as trade regulation, sales, finance, transportation, labor, intellectual property, taxation, and dispute resolution, together with the cultural, social, economic, and political issues affecting the international business legal environment.

Courses in General Business (GBU)

- 521 Topics in General Business.** One to three semester hours. Can be repeated as topics vary. Limit of three semester hours to be applied to graduate degree.
- 550 Executive Leadership.** An introduction to leadership theory and principles; application of leadership concepts in business organizations, with emphasis on formation of a personal leadership style. (Same as MGT 550).
- 557 Negotiation and Dispute Resolution.** A study of negotiation theories and skills applicable to business transactions; of conflict administration through the various dispute resolution methods; of design and implementation of dispute resolution systems for business conflicts; and of social and ethical issues in negotiation and dispute resolutions.
- 575 Advanced Graduate Studies.** Individual study based on student need. May be repeated under different topics.
- 576 Advanced Graduate Studies.** Individual study based on student need.

DEPARTMENT OF
MANAGEMENT, MARKETING, AND
INTERNATIONAL BUSINESS

CHAIR TO BE NAMED

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Objectives

Graduate courses in management and marketing may be taken as part of the requirements in the M.B.A. program and also may also be taken by other graduate students who desire to obtain advanced knowledge in the respective areas. Management courses may be applied to a major or minor in management, and both management and marketing courses may be applied to a minor in general business. These courses enable students to acquire knowledge and skills to enhance their capabilities for optimizing personal potential within their chosen career paths.

Management Major (M.B.A.)

While all M.B.A. students obtain knowledge of the fundamentals of management, the management major provides an opportunity to develop more specialized knowledge in one or more areas of management. This is achieved by completing a total of 18 graduate hours of management courses, including those required of all M.B.A. students.

Management Minor

The objective of the graduate minor in management is to provide students with either general or specialized knowledge of the subject according to individual needs. This objective is satisfied by completing nine to 15 hours of management courses numbered 500 and higher.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department. For information and applications, contact the chair of the department.

Graduate Faculty

Regents Professor

Dillard B. Tinsley, Ph.D., Texas Tech University, Marketing

Professors

Warren W. Fisher, Ph.D., University of Texas at Austin, Management
 David E. Gundersen, Ph.D., University of Mississippi, Management
 Joseph G. Ormsby, Ph.D., University of Arkansas, Management
 Elton L. Scifres, Ph.D., Louisiana State University, Management

Associate Professors

Joe K. Ballenger, Ph.D., University of North Texas, Marketing
 Robert A. Culpepper, Ph.D., University of Alabama, Management
 Joyce M. Hoffman, Ph.D., The University of Memphis, Management
 Larry R. O'Neal, Ph.D., Texas A&M University, Marketing

Assistant Professors

Charlotte Allen, Ph.D., University of North Texas, Marketing
 Larry H. Chasteen, Ph.D., University of Texas at Dallas, Management
 Robert Mitchell Crocker, Ph.D., Auburn University, Management
 Marlene C. Kahla, Ph.D., Texas A&M University, Marketing
 Philip E. Stetz, Ph.D., Texas Tech University, Management

Courses in Management (MGT)

Unless otherwise indicated, courses are three semester hours credit.

- 512 Foundations In Management.** An introduction to fundamental theories associated with the management of organizations. Emphasis is placed on the managerial process and the application of management theory in organizational settings.
- 517 Strategic Management.** A study of strategy formulation and implementation emphasizing the integration of decisions in the functional areas in light of external conditions and forces to achieve organizational objectives. Prerequisites: Completion of (or current enrollment in) all M.B.A. core course requirements, or completion of all M.P.A. undergraduate course requirements, or consent of the M.B.A. director. Not recommended for non-business majors.
- 522 Advanced Topics in International Management.** A study of administrative philosophies, policies, and practices of international business organizations. The nature of management processes and activities is examined in terms of different social, cultural, political, and economic environments. Prerequisite: three hours in management.
- 550 Executive Leadership.** An introduction to leadership theory and principles; application of leadership concepts in business organizations, with emphasis on formation of a personal leadership style. (Same as GBU 550).
- 570 Management Problems in Employee and Labor Relations.** Intensive study of employee-employer relationships in nonunionized and unionized settings; review of current legislation and its impact on human resource policies and practices.
- 571 Operations Management.** An analysis of the problems and relationships involved in the production of services and goods. Specific topics include service/product design, process selection, work methods and standards, inventory control, quality control, and production control.

Prerequisite: ECO 502 or equivalent.

- 573 Seminar in Human Resource Management.** Advanced treatment of leading-edge theories and practices in human resource management that focus on effective employee management. Topics include equal employment opportunity, human resource planning, recruiting, selection, training and development, compensation, and employee and labor relations.
- 575 Advanced Graduate Studies.** Student is individually assigned to an instructor on the basis of the type of studies needed for the programs pursued. May be repeated under different topics.
- 576 Advanced Graduate Studies.** Same as Management 575 but in a different topic.
- 577 Organizational Behavior and Theory.** An in-depth examination of selected issues in organizational behavior and organizational design. Both practical and theoretical perspectives on topics are designed to help students identify relevant information, analyze situations and select appropriate actions. Prerequisite: MGT 512 or equivalent.
- 580 Quantitative Management Applications.** Quantitative techniques for decision making including linear programming, goal programming, integer programming, non-linear programming, transportation and assignment method programming, and network flow models. Prerequisite: ECO 502 or equivalent.
- 581 Information Systems in Organizations.** An overview of information systems including conceptual foundations, development, use, and impact on the organization. Prerequisites: CSC 503 or equivalent and three hours of management or equivalent.
- 585 Seminar in Entrepreneurship.** Investigates the risks, myths and rewards of entrepreneurship defined as new venture startup or business expansion in the pursuit of wealth creation, and explores the entrepreneurial process from opportunity recognition to harvest. The focus will be on writing a formal business plan grounded in current research to assess the degree to which an idea is an opportunity. Prerequisites: Completion of M.B.A. leveling courses or their equivalents or consent of instructor.
- 589* Thesis Research.** Research necessary to initiate and complete the MBA thesis. Prerequisite: Completion of underlying courses.
- 590* Thesis Writing.** Prerequisites: Completion of underlying courses and consent of instructor.

**A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis prospectus has been approved.*

Courses in Marketing (MKT)

Unless otherwise indicated, courses are three semester hours credit.

- 508 Marketing: Theories and Practices.** Covers basic marketing concepts and techniques essential to the formulation and implementation of effective marketing programs and strategies. Recommended for students with no marketing background.
- 510 Strategic Marketing of Services.** Examination of the unique aspects of service organizations and the impact of those factors on marketing goals and strategies. Prerequisite: MKT 508 or equivalent.
- 513 Marketing Management.** Examination of the functions of marketing executives. Emphasis on the formulation and implementation of marketing programs and strategies, covering areas such as products, pricing, channels of distribution, and promotion. Prerequisites: MKT 508, MGT 512, and ACC 501 or their equivalents.
- 525 Seminar in E-Commerce: Strategic Marketing Perspectives.** A strategic overview of electronic commerce with an emphasis on major strategic marketing opportunities, issues and problems. Covers use of intranet, extranet, and Internet technologies to interact, collaborate and transact business with the company's customers, employees, suppliers, and partners. Both organizational and external factors are analyzed in formulating competitive online marketing strategies. Prerequisites: CSC 503, MKT 508, and MGT 512 or their equivalents.
- 552 Seminar in International Marketing Management.** A conceptual and action-oriented approach to marketing of products and services abroad. Management problems of planning, organizing and controlling foreign marketing operations also are analyzed. Prerequisite: MKT 508 or equivalent.
- 575 Advanced Graduate Studies.** Student is individually assigned to an instructor on the basis of the type of studies needed for the programs pursued. May be repeated under different topics.
- 576 Advanced Graduate Studies.** Same as Marketing 575 but in a different topic.

E THE COLLEGE OF EDUCATION

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COLLEGE OF
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Graduate programs are designed to assist professionals who wish to prepare for new professional roles or to complement and supplement their present roles. For the teacher, graduate programs provide further preparation in areas of specialization. For a person choosing to prepare for a professional service position such as administrator, counselor or educational diagnostician, the program provides an entire graduate degree program. Master's degrees and graduate study also are available in agriculture, kinesiology, human sciences and human services.

The master's degree is available with or without a thesis requiring either 30 or 36 semester hours of course work.

A doctoral program in educational leadership is available in the Department of Secondary Education and Educational Leadership. The program is delivered to cohorts of students with a new group of students beginning each summer.

State Accountability System For Educator Preparation (ASEP)

All Stephen F. Austin State University educator preparation programs continue to be accredited by the state. The overall initial pass rate for individuals completing a certification program during 2003-2004 was 98 percent, with each of six demographic groups' pass rates at 95 percent or higher.

National Report Card - Title II

Ninety-nine percent of Stephen F. Austin State University students seeking initial teacher certification during 2003-2004 passed all state-required assessments in basic skills, professional knowledge/pedagogy, academic content area, and teaching special populations.

College of Education Graduate Majors

Major	Department
Communication Sciences & Disorders	Human Services
Community Counseling	Human Services
Doctoral	Secondary Education & Educational Leadership
Early Intervention	Human Services
Family and Consumer Sciences	Human Sciences
Foods, Nutrition and Dietetics	Human Sciences
Kinesiology and Health Science	Kinesiology
Rehabilitation Counseling	Human Services
School Psychology	Human Services
Secondary Teaching	Secondary Education & Educational Leadership
Standard Special Ed Teacher Leadership & Pedagogy	Human Services
	Secondary Education & Educational Leadership

Graduate programs with educator certification

Certification	Department
Bilingual	Elementary Education
Early Childhood	
Specialist	Elementary Education
Educational	
Diagnostician	Human Services
ESL	Elementary Education
PBIC	Secondary Education & Elementary Education
Principal	Secondary Education & Educational Leadership
RDG Specialist	Elementary Education
School Counselor	Human Services
Visual Impairment	Human Services

Supplemental programs

Supplement	Department
Bilingual	Elementary Education
ESL	Elementary Education
Visual Impairment	Human Services

Additional professional education

Program	Department
Doctoral	Secondary Education & Educational Leadership
Superintendent	Secondary Education & Educational Leadership

Recommendation for Professional Certificates

Recommendation is based on:

1. teaching experience in an accredited school, verified by a teacher service record
2. a good citizenship record
3. satisfactory completion of the prescribed certificate program
4. passing the appropriate certification examination and
5. applying online for the certificate and paying the prescribed fee
6. service record

Certification for Persons Holding Master’s Degrees

Individuals with master’s degrees may receive additional certificates by completing requirements as outlined below. Information is available in the Office of Educator Education and in the office of the major field of study.

Professional Certification Programs

Professional certificates may be obtained for the positions of School Counselor, Educational Diagnostician, Master Reading Teacher, Master Math Teacher, Reading Specialist, Principal and School Superintendent. Supplemental certificates are available for Bilingual Education, English as a Second Language and Visual Impairment. The curricula leading to these are described below.

All course work for the administrators’ certificate programs at the graduate level must be completed within 10 years.

Professional Organization

Phi Delta Kappa is a professional education fraternity associated with approved colleges and universities of graduate rank maintaining schools, colleges or departments of education. The fraternity emphasizes research, service, and leadership. Membership in the local chapter is based on scholarship and service. For more information, contact the dean’s office.

Certifications

Standard Principal Certificate

Department of Secondary Education and Educational Leadership

1. Common Core for Principal Certificate	15
Leadership Education	
AED 501 Introduction to Educational Leadership	
AED 516 The School Principalship K-12	
AED 517 The Principal as an Instructional Leader	
AED 549 Foundations of Curriculum Planning	
AED 565 Public School Law	
2. Specialized Preparation for Principal Certification	15
AED 519 Supervision of the Instructional Program*	
AED 552 School-Community Relations	
AED 553 School Personnel Administration	
AED 513 Administration of Special Programs	
AED 599 Education Research and Application	
3. Inquiry Sequence	
AED 591 Practical Inquiry and Action Research I	3
AED 592 Practical Inquiry and Action Research II	3
OR	
Thesis option available with permission from chair	
AED 589 Thesis Research	3
AED 590 Thesis Writing	3
Total for master's	36
TEExES #68 required	
Candidates who hold a master's degree and meet the additional department requirements may complete the following 18 hour course sequence for a Principal Certificate	
AED 501 Introduction to Educational Leadership	
AED 516 The School Principalship K-12	
AED 517 The Principal as an Instructional Leader	
AED 549 Foundations of Curriculum Planning	
AED 565 Public School Law	
AED 599 Education Research and Application	
Total for Principal Certificate	18 hours
In order to attain principal certification, two years of creditable teaching experience as a classroom teacher, as defined by chapter 230, subchapter Y of Title 19 - Texas Administrator Code, is required. A teacher service record is requested to verify the classroom teaching experience.	

Standard Superintendent Certificate

Department of Secondary Education and Educational Leadership

AED	511	The Superintendency	3
AED	547	Public School Financing and Business Administration	3
AED	551	School Plant Administration	3
AED	594	Superintendency Seminar	3
AED	596	Internship for School Superintendent	3
Total for Superintendent Certificate*			15 hours

*Must be added to a Principal or Mid-Management Certificate
TEEx #64 required

School Counselor Certificate

Department of Human Services

COU	520	Introduction to Counseling	3
COU	524	School Counselor	3
COU	525	Vocational & Educational Information	3
COU	528	Group Counseling	3
COU	529	Child-Parent Relationships	3
COU	531	Theories of Counseling	3
COU	533	Counseling Skills and Techniques	3
COU	535	Multicultural Counseling	3
COU	594	Practicum in Counseling	3
EPS	559	Tests and Measurement	3
EPS	585	Human Growth & Development	3
SPE	567	Trends in Educating Exceptional Children	3

A master's degree from an accredited institution of higher education, TEEx #152, and two school years of classroom teaching experience in a public or accredited private school are required.

Educational Diagnostician Certificate

Department of Human Services

SPE 439/539	Introduction to Applied Behavior Analysis	3
SPE	567 Trends in Educating Exceptional Children	3
SPE	561 Medical/Educational Aspects	3
SPE	562 Instructional Strategies	3
SPE	571 The Educational Diagnostician	3
SPE	502 Applied Behavior Analysis	3
EPS	544 Individual Academic Assessment	3
EPS	545 Individual Intelligence Testing	3
EPS	555 Practicum in Diagnostic Evaluation	3

EPS	559	Tests and Measurement	3
EPS	560	Learning & Cognitive Development	3
EPS	585	Human Growth & Development	3
Total			36 hours

A master’s degree from an accredited institution of higher education, TExES #163, and two years classroom teaching experience in a public or accredited private school are required.

The core curriculum, consisting of EPS 559 and SPE 561, 562 and 567, must be completed as the first 12 hours of graduate study.

Supplemental Programs
4–8 Master Math Teacher Certificate

MTE	564	Quantitative Reasoning	3
MTE	550	Seminar in Geometry	3
MTE	552	Patterns and Reasoning	3
MTE	554	Seminar in Algebra	3
MTE	556	Logic and Foundations of Mathematics	3
MTE	558	Numerical Techniques in Mathematics	3
MTE	560	Historical Perspectives of Mathematical Concepts	3
SED	528	Math in the Middle School	3
SED	530	Instruction, Assessment, and Evaluation for Middle Level Math	3
SED	532	Leadership and Mentoring in Middle Schools	3

Three years of classroom teaching experience in an accredited school and TExMAT 88 required.

Bilingual Education Supplemental Certification
Department of Elementary Education

May be added to existing standard or lifetime certificates that require a college degree. TExES required. Oral proficiency shall be determined by a passing score on Texas Oral Proficiency Test (TOPT).

12 semester hours earned after the bachelor’s degree:

ENG	441	Linguistic Theory	
*ELE	505	Foundations of ESL Bilingual	
*ELE	506	ESL/Bilingual Assessment	
*ELE	507	Teaching Methods in the Content Area	
SPA	475 (1)	Language Proficiency	
			Total 13 hours

*online courses

English as a Second Language Supplemental Certificate
Department of Elementary Education

May be added to existing standard or lifetime certificates that require a college degree. TExES required.

ENG	441	Linguistic Theory	
*ELE	505		Foundations of ESL Bilingual
*ELE	506	ESL/Bilingual Assessment	
*ELE	507	Teaching Methods in the Content Area	

*online courses

Visual Impairment Supplemental Certificate*
Department of Human Services

May be added to existing standard or lifetime certificates that require a college degree.

SPE	515	Programs and Services for Persons with Visual Impairment	3
SPE	516	Anatomy and Function of the Visual System	3
SPE	517	Communication Skills for Visual Impairment	3
SPE	518	Basic Orientation and Mobility	3
SPE	551	Instructional Strategies Visual Impairment	3
SPE	552	Working with Persons with Visual Impairment	3
SPE	558	Practicum in Special Education	

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** SPE 532 and 567 also are required for individuals not certified in special education. ExCET 36 and 75 required.

Master Reading Teacher Certificate

RDG	501*	Early Literacy	3
RDG	502*	Upper Level Literacy	3
RDG	503*	Reading Assessment	3
RDG	504*	Reading Professional	3

Total 12 hours

Three years of classroom teaching experience in an accredited school and TExMAT 85 required.

*Web based courses.

Reading Specialist Certificate

Master's degree required – see Department of Elementary Education section. Two years of classroom teaching experience in an accredited school and TExES 151 required.

Post Baccalaureate Initial Certification Program

Individuals who hold a bachelor's degree may seek teacher certification through SFA's Post Baccalaureate Initial Certification (PBIC) Program, a non-traditional route to certification that is approved by the State Board for Educator Certification. Admission requirements and additional information can be found at

<http://www.education.sfasu.edu/coe/tcert/CertGradLevel.html>.

Certification programs are available for grades EC-4, 4-8, 8-12, and EC-12.

PBIC

EC-4 PBIC certification requires 12 hours early childhood, six hours reading, nine hours methods classes, six hours elementary education/special education and six hours teaching or internship. The first and last ECH course require minimal observations on campus.

4-8 PBIC certification requires content emphasis in math, science, reading/English, social studies or combinations of these, six hours reading, 12 hours middle-level education and six hours student teaching or internship.

Education courses required for secondary and all-level certification (8-12, EC-12) include:

SED 521, 522, 523, 525, 533 (15 hours) plus student teaching or internship (six hours)

ExCET/TExES exams in both content and teaching skills are required for certification.

DEPARTMENT OF
ELEMENTARY EDUCATION

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Mary Nelle Brunson, Assistant Chair of Department
Vi Cain Alexander, Reading Coordinator and Graduate Adviser
Vikki Boatman, Early Childhood Coordinator and Graduate Adviser
Jeanie Gresham, PBIC Coordinator
Sandra Luna McCune, TExEs Mentor and Graduate Adviser
Lori McGough Harkness, Director, Early Childhood Lab

Mission Objectives of the Department

The mission of the Department of Elementary Education is to prepare undergraduate and graduate students to meet the teaching demands of the culturally diverse society of the 21st century. Through dynamic learner-centered programs that support academic success, students learn the pedagogy and technology necessary to create classrooms for children from birth through eighth grade.

Graduate course offerings are designed to improve the competence of early childhood, elementary, and middle school teachers and to prepare them for a variety of positions. Undergraduate preparation is extended and enriched through courses that provide an opportunity to review current research in relevant fields, to conduct research in appropriate areas, to develop activities and curriculum materials, and to study emerging trends in elementary education, middle schools, early childhood development, and reading.

Admission Requirements

A major requires a background of at least 18 semester hours of approved courses in education or a valid permanent teacher's certificate. In order to be considered for admission, applicants must have a combined verbal and quantitative GRE score of at least 750, a GPA of at least 2.8 for the last 60 undergraduate hours, and a GPA of at least 2.5 for all undergraduate course work. Acceptance of a major or minor in elementary education depends on the department's evaluation of a student's background.

Candidates for the M.Ed. degree must apply for admission to candidacy when they have completed 12 hours. Students must complete 12 hours of required courses and have a GPA of at least 3.0 in all courses in the major to apply for admission to candidacy. A departmental admissions committee may require a continuation or diagnostic examination before approving admission to candidacy. The candidate also must pass a departmental comprehensive examination over specific competencies in the major. The student takes the comprehensive examination during the final semester of graduate study. Students must be enrolled in at least one course at SFA to be eligible

to take the comprehensive examination. All requirements for the master's degree must be completed within six years.

Master of Education Degree Programs

The Elementary Education Department offers four Master of Education degree programs with optional areas of emphasis. Each of the four plans includes 36 hours of course work.

- 1) **Standard Graduate Elementary Program**
With Reading, ESL, Bilingual, Early Childhood or PBIC
- 2) **Content Emphasis Graduate Program**
With Reading, ESL, Bilingual, Early Childhood or PBIC
- 3) **All-level Professional Certificate For Reading**
Specialist With Elementary Core, ESL, Bilingual, Early Childhood or PBIC
- 4) **Early Childhood Specialist Degree Plan**
With Elementary Core, Reading, ESL, Bilingual, or PBIC

Elementary Master's Program

The Master of Education degree may be completed with 30 semester hours of course work and a thesis. A non-thesis program requires 36 semester hours of approved graduate course work.

The program is designed primarily for individuals who plan a career as a classroom teacher in an elementary or middle school. Contact the assistant department chair or appropriate graduate adviser for information and the development of a degree plan.

1. **Standard Graduate Elementary Program:** The Standard Graduate Elementary Program is a 36-hour plan designed to provide classroom teachers with advanced preparation in methods, research, discipline and classroom management. In addition, the candidate will choose one of the following options for specialization: reading, ESL, bilingual or early childhood. Certain PBIC courses may be used in the plan.

Courses for Standard Elementary Degree Plan
With Reading, ESL, Bilingual, Early Childhood or PBIC

• Core Courses	12 hours
ELE 527*	The Elementary School Child, Advanced
ELE 548*	The Elementary School Curriculum
ELE 584*	Research and Analysis of Teaching
ECH 532*	Psycho-Social Processes of Children
• Advanced Methods	12 hours
Six hours from:	
ELE 521*	Mathematics in the Elementary School, Advanced
ELE 522*	Science in the Elementary School, Advanced
ELE 523*	Social Studies in the Elementary School, Advanced
Six hours from:	
RDG 501*	Early Literacy of Young Child
RDG 508*	Teaching Reading and Writing in the Content Areas
ELE 595*	Humane and Environmental Education
• Options	Choose one of 12 hour options from no.5
	Total 36 hours

*web-based course

2. Content Emphasis Graduate Program: The Content Emphasis Graduate Program is a 36-hour plan designed especially for individuals who teach in departmentalized or middle-school classrooms. Courses may be selected from many content fields that support the knowledge base for specific teaching assignments. Additionally, the program includes advanced study of educational research, discipline and the significant characteristics of learners. A 12-hour option allows specialization in one of the following areas: reading, ESL, bilingual, early childhood. Certain PBIC courses may be used in this plan.

Courses for Content Emphasis Degree Plan
With Reading, ESL, Bilingual, Early Childhood or PBIC

- Core Courses 12 hours
 - ELE 527* The Elementary School Child, Advanced
 - ELE 548* The Elementary School Curriculum
 - ELE 584* Research and Analysis of Teaching
 - ECH 532* Psycho-Social Processes of Children
 - Academic Content 12 hours

12 semester hours from one area or combinations of the following subjects:
art, biology, chemistry, earth science, economics, English, geography, geology, German, history, mathematics, music, kinesiology, physics, political science, reading, Spanish, special education
 - Options Choose one of 12 hour options from no.5
- Total 36 hours

*Web-based course

3. All-level Professional Reading Specialist Program: This program is designed to provide specialized preparation essential for helping individuals with reading disabilities. It is intended to prepare a teacher to devote full time to developmental, corrective, or remedial work at the early childhood, elementary, middle or high school level. It may serve as part of the preparation of reading supervisors, reading clinicians, or reading consultants. An integral component of this master's plan is the Master Reading Teacher program that leads to the specific certification for Master Reading Teachers. Also, included in this 36-hour plan is the option to add elementary core, ESL or bilingual certification, early childhood or PBIC courses or thesis.

The standards established by the International Reading Association for the Special Teacher of Reading and by the Texas Education Agency for the Reading Specialist Certificate were used as guidelines for the design of the Reading Specialist Program. A person must not only complete the program but also must teach successfully two years in an accredited school.

Courses for All-Level Certificate for Reading Specialist
With Elementary Core, ESL, Bilingual, Early Childhood or PBIC

- Major Reading 24 hours
 - RDG 501* Early Literacy of Young Child
 - RDG 502* Upper Level Literacy
 - RDG 503* Reading Assessment
 - RDG 504* Reading Professional

RDG 508*	Teaching Reading and Writing in the Content Area
RDG 574*	Teaching Reading with Trade Books
RDG 534*	Practicum in Reading in the Schools (6 hours)
• Options	Choose one of 12 hour options from no.5 12 hours

Total 36 hours

*web-based course

4. Early Childhood Specialist Degree Program:

This program is designed to meet the specific needs of individuals who work with children ages birth through eight years. The program is designed to develop specialized competency in organizing programs for young children and families through in-depth study and research related to child growth and development, theoretical underpinnings of classroom practice, development of learning strategies, and sociological and psychological factors influencing behavior in young children.

Courses for Early Childhood Specialist Degree Plan with Bilingual, ESL, PBIC or Reading Major

Early Childhood 24 hours

ECH 528*	Intellectual Development of Young Children
ECH 531*	Learning Center Activities
ECH 532*	Psycho-social Processes of Children
ECH 535*	Family, School and Community Relationships
ECH 586	Evaluation in Early Childhood Education
ELE 584	Research and Analysis of Teaching
RDG 501*	Early Literacy of Young Children
SPE 564	Early Childhood Special Education

Three hours from: 3 hours

ECH 561**	Practicum in Early Childhood Interaction (one hour) and
ECH 562**	Practicum in Early Childhood Teaching (two hours) OR
ELE 595*	Human and Environmental Education
ELE 575	As approved by major professor

PLUS: CHOOSE ONE OF THE OPTIONS IN 5. 9 hours

* Web based course

** Required for students who did not complete ECH at SFA.

5. Options for Standard, Content, Early Childhood, Reading Programs

OPTION 1: ECH/Early Childhood

ECH 528*	Intellectual Development of Young Children
ECH 531*	Learning Center Activities
ECH 586	Evaluation in Early Childhood Education

Three hours from:

ECH 561**	Practicum in Early Childhood Interaction (one hour) and
ECH 562**	Practicum in Early Childhood Teaching (two hours) OR
ECH 535*	Family, School and Community Relationships

OPTION II: ENGLISH as a SECOND LANGUAGE/BILINGUAL

- ENG 441 Structure and Language
- ELE 505* Foundations of ESL Bilingual
- ELE 506* ESL/Bilingual Assessment
- ELE 507* Teaching Methods in the Content Area

OPTION III: PBIC

- ELE 520* Survey of Teaching
- ELE 539* Culturally Responsive Teaching (one hour)
- ELE 560* Technology and Curriculum (one hour)
- RDG 518* Reading Methods for Early Childhood
- SPE 503* Children with Special Needs (one hour)

Three hours from:

- ECH 528* Intellectual Development of Young Children
- MLG 540* Middle School Philosophy (4-8 only)

OPTION IV: RDG/Master Reading Teacher

- RDG 501* Early Literacy of Young Children
- RDG 502* Upper Level Literacy
- RDG 503* Reading Assessment
- RDG 504* Reading Professional

OPTION V: ELEMENTARY CORE

- ELE 527* The Elementary School Child, Advanced
- ELE 548* The Elementary School Curriculum
- ELE 584* Research and Analysis of Teaching
- ECH 532* Psycho-social Processes of Children

6. **Thesis Option:** In any of the above programs, students may select the traditional thesis option and reduce regular course work by six hours.

7. **Post-baccalaureate Initial Certification (PBIC):** Students who have bachelor's degrees from accredited institutions without certification may become certified teachers by adding the appropriate education courses and content (early childhood, English, language arts, reading, math, science, social studies). The education courses are Web-based and require only two to three visits to campus. For information, contact the PBIC coordinator listed above.

EC-4 Certification*

Elementary Education 15-18 hours

Reading six hours

Early Childhood 12 hours

Internship (one year) or Student Teaching (one semester) six hours

*See PBIC coordinator for specific course sequence and advising.

Courses will be determined by individual certificate plans.

4-8 Certification*

Elementary/Middle Level Education 15-18 hours

Reading nine hours

Content (Language Arts/Reading, Math Science, Social Studies) varies based on

content background

Internship (one year) or Student Teaching (one semester) six hours

*See PBIC coordinator for specific course sequence and advising

Courses will be determined by individual certificate plans

To apply for Post-baccalaureate Initial Certification Program contact the Teacher Education Office or visit the Web site: www.education.sfasu.edu/coe/tcert/CertGradLevel.htm

8. Master Reading Teacher: The Elementary Education Department offers the Master Reading Teacher Certification program. A Master Reading Teacher is an individual who holds a Master Reading Teacher Certificate and whose primary duties are to teach reading and serve as a reading mentor to other teachers. This program requires 12 hours of course work, RDG 501, 502, 503, and 504, and is an integral component of the Professional Reading Specialist Certificate Program. All of this course work is offered online. TExMAT 85 required.

9. Minor in Reading:

A minor normally consists of 12 hours of reading. Each student's major or minor program will be planned in consultation with an adviser in the Department of Elementary Education. The student's interests and objectives will be considered within the framework of certificate and Graduate School requirements in the planning of the program. Contact the Department of Elementary Education for additional information about the above programs.

10. A Minor in Early Childhood Education:

A minor consists of 12 to 15 hours of course work and requires an undergraduate background in education, child development, and/or child psychology of at least 24 hours. The required courses in the Early Childhood minor are: ECH 528, 531, 532, and RDG 501. ECH 561 is a prerequisite to courses in the minor.

11. Bilingual Education Supplementary Certificate:

May be added to existing standard or lifetime certificate by completing the following 13 hours of course work:

ENG	441	Linguistic Theory
ELE	505*	Foundations of ESL Bilingual
ELE	506*	ESL/Bilingual Assessment
ELE	507*	Teaching Methods in the Content Area
SPA	475 (1)	Language Proficiency

Must complete appropriate TExES and Texas Oral Proficiency Test, TOPT.

12. English as a Second Language Supplementary Certificate:

May be added to existing standard or lifetime certificates that require a college degree. The courses required are:

ENG	441	Linguistic Theory
ELE	505*	Foundations of ESL Bilingual
ELE	506*	ESL/Bilingual Assessment
ELE	507*	Teaching Methods in the Content Area

Must complete appropriate TExES.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department. For information and applications, contact the chair of the department.

Graduate Faculty

Regents Professor

Sandra Luna McCune, Ph.D., Texas A&M University, Adult and Extension Education

Professors

Vi Cain Alexander, Ph.D., Texas A&M University, Curriculum and Instruction

Janice Pattillo, Ph.D., Texas A&M University, Curriculum and Instruction

Associate Professors

Carolyn Davidson Abel, Ed.D., University of Nevada-Reno, Curriculum and Instruction

Wynter Chauvin, Ph.D., Texas A&M University, Curriculum and Instruction

Alan Sowards, Ed.D., Texas A&M University at Commerce, Curriculum and Instruction

Assistant Professors

Vikki Boatman, Ed.D., University of North Texas, Early Childhood

Mary Nelle Brunson, Ed.D., University of North Texas, Early Childhood

Steven Josephsen, Ed.D., University of Virginia, Curriculum and Instruction

Elizabeth Miranda Witherspoon, Ph.D., University of Alberta, Curriculum and Instruction, ESL, Bilingual, Elementary Education Courses

Unless otherwise indicated courses are three semester hours credit.

Early Childhood, Reading and Middle-Level Grades courses are listed separately on the following pages. Other education courses are listed under the Departments of Human Sciences and Human Services.

Courses in Elementary Education (ELE)

492G Introduction to Outdoor Education. A workshop-type course with emphasis upon activities in science, mathematics, language arts, and social studies. Includes field and laboratory experience at local and area school grounds, parks, and outdoor learning centers.

495G* Humane and Environmental Education. A study of humane and environmental education concepts and methods with emphasis on the role they can play in the teaching of the essential elements of the curriculum prescribed for Texas schools.

505* Foundations of ESL Bilingual. Emphasizes the foundation of ESL/bilingual education and factors that contribute to an effective multicultural and multilingual learning environment.

506* ESL/Bilingual Assessment. Second language assessment and development for both language proficiency and academic achievement; focuses on formal and informal assessment procedures to plan and adapt instruction.

507 Teaching Methods in the Content Area. Using ESL techniques for teaching the content areas: math science and social studies to English language learners.

520* Survey of Teaching. Three semester hours. A survey of teaching course designed for post baccalaureate students seeking initial certification that focuses on the knowledge base necessary to teach effectively in Texas public schools. Web-based and requires orientation

to technology.

- 521* Mathematics In the Elementary School, Advanced.** Current trends, practices and research pertaining to the teaching of mathematics in the elementary school. Prerequisites: six hours mathematics and nine hours education and/or psychology, and ELE 303 or experience teaching mathematics.
- 522* Science In the Elementary School, Advanced.** This course is designed to help teachers become more competent in the development and use of hands-on, inquiry-based science activities. It is a workshop-type course based upon the process skills, materials and goals of national science curriculum programs.
- 523* Social Studies In the Elementary School, Advanced.** Current trends, practices and research pertaining to the teaching of social studies in the elementary school.
- 524 Language Arts In the Elementary School, Advanced.** Current trends, practices and research pertaining to the teaching of language arts in the elementary school.
- 525* Instruction and Assessment.** One to three hours credit. Examination of teaching and assessment strategies that support a community of learners and facilitate learning in the elementary classroom. This course is usually offered as a Web-based course. Prerequisites: ELE 520, RDG 318.
- 527* The Learner in the Educational Process.** Presents the factors in a learner's intellectual, psychological, emotional, social, and physical development and their implications for the elementary teacher.
- 533 Laboratory for Teachers.** One to three hours credit. Problems that confront administrators and teachers. The work conducted on a laboratory basis. May be repeated for no more than a total of six hours credit.
- 537* Effective Interaction.** One hour credit. An examination of the interaction and discipline strategies between teacher/student and student/student which promote positive classroom climate. This course is usually offered online. Prerequisites: ELE 520 and RDG 318.
- 539* Culturally Responsive Teaching.** One hour credit. Emphasizes culturally responsive teaching such as teacher caring, attitudes, expectations, motivation and communicating with families in varied contexts. This course is usually offered online. Prerequisites: ELE 520, 525, RDG 318, and RDG 320.
- 542 PBIC Field Internship.** A field internship of one full year in which a PBIC intern is employed as a teacher of record and where the intern is jointly supervised by the school and the university. Includes one campus semester. Fall and spring only. May be repeated one time. Additional fee: 850-1100.
- 543 PBIC Internship - Distant.** A field internship for PBIC students who are placed 100 miles or more from campus. The teacher/intern is employed as a teacher of record and is jointly supervised by the school and university. Fall and spring only. May be repeated one time. \$750 fee required.
- 548* The Elementary School Curriculum.** Analysis of historical and current trends in the elementary school curriculum.

- 560*** **Technology and Curriculum.** One hour credit. A capstone seminar for PBIC students that reviews academic content necessary for successful teaching in elementary or middle school grades. Prerequisites: ELE 520, 525, 537, 539, SPE 503, RDG 318, 320.
- 575** **Advanced Graduate Studies.** Three hours conference per week or the equivalent in conference and/or laboratory. Directed study based on the type of studies needed for the programs pursued. May be repeated under different topics.
- 576** **Advanced Graduate Studies.** Same as 575 for credit in a different topic.
- 577** **Professional Development.** Three semester hours, three hours lecture per week or equivalent to laboratory practicum, or workshop experiences. Designed to help graduate students develop competencies needed as a result of rapid-changing developments in education and related fields. Specific subject matter emphasis will be noted on student transcript. May be repeated once for an additional three hours credit.
- 578** **Seminar.** May be repeated.
- 584*** **Research and Analysis of Teaching.** Theory, practice and research in methods and techniques of instruction to meet the learner's needs, interests and abilities of students.
- 589**** **Thesis Research.** Individual study of a specific problem in the field of education. The thesis may be an organized scientific contribution or a comprehensive analysis of theory and practice in a specific area. Grade withheld until completion of thesis.
- 590**** **Thesis Writing.** Organization and revision of thesis for final submission to thesis committee and graduate dean. Prerequisites: ELE 589 and permission of major professor.
- 594** **Outdoor Education Advanced.** Methods and techniques of using the out-of-doors as an enrichment and extension of classroom instruction. Primarily a field course designed to help school personnel plan and develop outdoor teaching centers and programs.
- 595*** **Humane and Environmental Education.** A study of humane and environmental education concepts and methods with emphasis on the role they can play in the teaching of the essential elements of the curriculum prescribed for Texas schools.

**This course is Web-based.*

*** A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis prospectus has been approved.*

Reading Courses (RDG)

- 501*** **Early Literacy of Young Child.** An examination of early literacy of young children, issues, theories, and content related to early literacy, assessment and explicit reading instruction. Offered summer I only.
- 502*** **Upper Level Literacy.** An examination of literacy instruction for upper level to mature and second language learners. Course includes issues, theories and content related to upper level literacy assessment and explicit reading instruction. Offered summer I only.

- 503* Reading Assessment.** A supervised experience in understanding the reciprocal nature of assessment and instruction, types of reading assessment, and assessment-related issues. Offered summer II only.
- 504* Reading Professional.** A supervised experience in various approaches to leadership, professional development, mentoring, action research, and change facilitation. Offered summer II only.
- 508* Teaching Reading and Writing in the Content Areas.** An examination of reading and writing strategies appropriate to interdisciplinary content area. Offered fall semester only.
- 518* Reading Methods for Early Childhood.** Focus on acquisition and development of reading skills in early childhood. For post-baccalaureate initial certification students only. Prerequisites: Admission to Teacher Education and the Post-Baccalaureate Initial Certification Program.
- 519* Reading Methods Upper Level.** Focus on literacy instruction for upper level readers. Course includes content related to upper level literacy assessment and instruction. For post-baccalaureate initial certification students only. Prerequisites: RDG 518.
- 534* Practicum in Corrective Reading.** A directed experience in planning and delivering reading curriculum and instruction for students experiencing reading difficulty. Prerequisites: RDG 501, 502, 503, 504, 508, and 574. May be repeated for an additional three hours credit.
- 574* Teaching Reading with Trade Books.** An examination of trade books and their integration into reading/language arts programs. Offered spring semester only.

**This course is Web-based.*

Early Childhood Education Courses (ECH)

- 528* Intellectual Development of the Young Child.** Investigation of development of thinking of children from birth to age 8; particularly emphasizing the theory of Piaget.
- 531* Learning Center Activities.** A study of the rationale, organization and implementation of learning centers. Directed experience in the Early Childhood Laboratory.
- 532* Psycho-Social Processes of Children.** An intensive study of psycho-social processes of children with emphasis on guidance and interaction as strategies that foster self-esteem, autonomy and problem-solving.
- 535 Family, School, Community Relationships.** An intensive study of the inter-relationships among the child, family, schools and community with an emphasis on family involvement in schools to support children's success in school.
- 561 Practicum in ECH Interaction.** Designed for students with limited background in early childhood education. Minimum of two hours weekly of supervised interactions with young children in the Early Childhood Laboratory, accompanied by weekly seminars. One semester hour credit.

- 562 Practicum in Early Childhood Teaching.** Minimum of four hours weekly of supervised teaching in the Early Childhood Laboratory accompanied by weekly seminars. Prerequisites: ECH 528, 531, 532, 561 and permission of graduate adviser. Two semester hours credit.
- 586 Evaluation In Early Childhood Education.** Study and development of diagnostic and assessment instruments for use with young children. Practice in administering instruments, reporting to parents and improving parent participation in the education of the young child.

**This course is Web-based.*

Middle Level Grades (MLG)

- 540* Middle School Philosophy.** Examination of educational practice in the middle grades (4th-8th) including trends and issues unique to the middle grades. This course is usually offered as a Web-based course as part of the PBIC program and/or the Master of Education Program.
- 580* Developing Self-Disciplined Learners in Middle Grades.** Focuses on creating a positive, productive classroom climate that builds self-discipline and that fosters responsibility and citizenship in middle-level learners. Prerequisite: MLG 540.

**This course is Web-based.*

DEPARTMENT OF HUMAN SCIENCES

LYNDA MARTIN, CHAIR

Human Sciences 107B

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Mission and Objectives of the Department

The Department of Human Sciences focuses on the preparation of professionals for emerging careers and entrepreneurial opportunities. Areas of study include child development/ family; food, nutrition and dietetics; hospitality administration; fashion merchandising; interior design; and family and consumer sciences/ certification for teaching.

Consistent with the mission, core values and vision at SFA, the department emphasizes enhanced student achievement, a strong commitment to total life-long learning and development, and interactive/innovative instruction, research and service. Major goals are to provide an effective learning environment for the diverse academic majors in the Department of Human Sciences; foster an environment which supports, encourages and rewards intellectual development and productive professionals; and expand external resource development while advancing and marketing programs.

Graduate Programs

Two degree options are provided to meet the diverse needs of students.

THESIS PROGRAM: The Master of Science degree with a major in human sciences with thesis:

- A. Major course work (24 hours)
Courses in the area of specialization to be selected under advice of graduate program adviser.
- B. Thesis (six hours).

NON-THESIS PROGRAM: The Master of Science degree with a major in human sciences without thesis (36-hour program). This option is designed for the student who (1) plans to teach in a family and consumer sciences program, (2) plans to complete academic requirements of the American Dietetic Association,* (3) wants to advance professionally in hospitality administration, interior design, economic education and other areas of Human Sciences.

- A. HMS major course work (24 hours):
- B. Minor course work (six hours) from:
Selected areas of Human Sciences specializations.
- C. Elective course work (six hours) from:
Human Sciences or a supporting discipline, upon approval of the graduate program adviser.

- D. The Post-Baccalaureate Initial Certificate Program (PBIC) is available to individuals holding an undergraduate degree in a Human Sciences specialization area. The PBIC in Family and Consumer Sciences broadens employment opportunities. Refer to Alternative Teacher Certification for Graduate Students located in College of Education section of this bulletin.
- E. The master's degree is an option in the Supervised Practice Program for Dietetics. Two options also are available to students who meet graduate entrance requirements:

THESIS:

HMS 500, 570, 532, 539, 535 or 505, 529, 575, 576, 589, 590.
(Plan entails summer II, fall, spring, summer I, summer II)

NON-THESIS:

HMS 503, 505 and 535, and six hours support course work in lieu of HMS 589, 590.

Admission Requirements

Requirements for admission are the same as the general admission requirements of the Graduate School.

To be eligible to select a graduate major in human sciences, a student must have the appropriate background course work. This requirement usually is met by the student having completed at least a minor or 18 hours at the undergraduate level in the area of human sciences. Specific exceptions include a minor or 18 hours at the undergraduate level in a related area or discipline and department approval.

Recommendation for admission to candidacy is dependent upon successful completion of 12 graduate semester hours.

Graduate Faculty

Professors

Becky Greer, Ph.D., Texas Woman's University, Fashion Merchandising
Janie Kenner, Ph.D., Texas Woman's University, Clothing and Textiles
Mitzi Perritt, Ph.D., Texas Woman's University, Housing and Household
Equipment

Marie Saracino, Ph.D., Kansas State University, Child Development/ Family
Rachel Underwood, Ed.D., Oklahoma State University, Home Economics Education

Associate Professors

Leisha Bridwell, M.F.A., Louisiana Tech University, Interior Design
Brenda Marques, Ph.D., University of Georgia, Food and Nutrition
Lynda Martin, Ph.D., Oklahoma State University, Hospitality Administration
Lisa Mize, Ph.D., Texas Woman's University, Child/Family
Sally Ann Swearingen, M.F.A., Louisiana Tech University, Interior Design
Sheryl A. Wittenbach, Ph.D., Kansas State University, Hospitality Management

Assistant Professors

Darla Daniel, Ph.D., Texas Tech University
Carl Pfaffenberg, Ph.D., University of Tennessee, Hospitality Administration

**The Dietetic Internship at Stephen F. Austin State University is currently granted Developmental Accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, 312/899-5400.*

Courses in Human Sciences (HMS)

Unless otherwise indicated courses are three semester hours credit.

- 500 Philosophy of Human Sciences.** Historical, theoretical and philosophical investigation of the field of study. Prerequisite: 18 semester hours human sciences or department approval.
- 501 Service Management in the Human Sciences.** Analysis and development of professionalism and management competencies related to service in the human sciences.
- 502 Employee Development Issues in Human Sciences.** Current research and issues in human resources to include employee development and labor issues.
- 503 Cultural Aspects of Food.** The origin of cultural food habits; social and psychological aspects of food acceptances; cultural influences in food selection and preparation. Cross-listed with HMS 403.
- 504 Quantity Food Production and Service.** Three semester hours, one hour lecture, four hours lab per week in community facilities. Quantity food preparation, menu planning, food cost determination, recipe standardization, and efficient food service. Prerequisite: HMS 137. Cross-listed with HMS 404.
- 505 Food Service Organization and Management.** Principles of management applied to food service systems including restaurants and institutions. Cross-listed with HMS 405.
- 527 Textiles and Apparel Studies.** In-depth analysis of textiles and apparel with contemporary applications.
- 529 Nutrition for Sports.** Nutritional concerns for individuals and team sport participants at various ages, including optimum diet selection for maximum performance; nutrient impact on performance; body composition; energy balance; unique needs of specific sports participants; food and nutritional quackery in sports and athletics. Prerequisites: 12 semester hours from HMS, KIN, or HSC, and department approval. Cross-listed with HMS 429.
- 531 Supervised Practice I for Dietetic Interns.** Educationally supervised practice under the direct supervision of a registered dietitian. Students complete experience in clinical, community and food service. Fee required. Prerequisite: Admission to SFA dietetic internship program.
- 532 Public Health Nutrition.** Survey of food and nutrition issues pertinent to public health and consumerism. Investigation of food and nutrition assistance programs; research and analysis of current policies and goals. Prerequisite: six hours in foods/nutrition courses.
- 535 Advanced Nutrition in Health and Disease.** In-depth study of conditions which necessitate dietary modification as part of the therapeutic management of the patient. Prerequisite: 12 hours human sciences including HMS 339 and 449. May be taken concurrently with 449.
- 539 Foods and Nutrition Studies.** Investigative study of concepts in food and nutrition; analysis and interpretation of research studies; application of principles in solving family food and nutrition problems. Prerequisite: HMS 239 or 339.
- 540 Consumer Problems.** Study of the role of the consumer in the

- marketplace; emphasis on priorities, decision-making, consumer protection. Cross-listed with HMS 440.
- 545 Administration and Supervision In Human Sciences.** Purposes, principles and procedures of effective administration and supervision, development of plans, procedures, and materials.
- 551 Child Development and Parenting.** Investigation of processes that influence physical growth, personality development and behavioral patterns of children. Research of theories related to effective parenting and child rearing strategies. Prerequisite: 18 hours in HMS or department approval.
- 552 Family Studies.** Structures, roles and relationships in the family.
- 560 Adult and Aging.** Physical, psychological and social aspects of adulthood and aging. Prerequisite: 18 hours in HMS, related area of study or department approval.
- 563 Fashion Promotion.** Activities and devices used in the fashion industry to encourage sales of merchandise and create good will including publicity, public relations, special events, fashion shows, personal selling and advertising. Prerequisites: Junior or senior level and at least six semester hours in human sciences or business. Cross-listed with HMS 463.
- 570 Research Methods In Human Sciences.** In-depth investigation of research procedures in the various areas of the discipline. Prerequisite: HMS 500 or department approval.
- 572 Topics In Human Sciences.** Topics change to focus on Human Sciences disciplines.
- 574 Human Sciences Delivery Systems.** Studies change with each offering.
- 575 Advanced Graduate Studies.** Three hours in conference and/or laboratory. Intensive study of a selected topic in a subject matter area. Prerequisites: 12 semester hours in area of study selected and department approval. May be repeated.
- 576 Advanced Graduate Studies.** Three hours conference per week. Same as 575 in different topic.
- 578 Seminar.** One semester hour. May be repeated.
- 589* Thesis Research.** Research for the thesis. Prerequisite: Consent of adviser.
- 590* Thesis Writing.** Writing of the thesis. Prerequisite: HMS 589 and consent of adviser.

** A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. A student may not register for 590 until the thesis proposal has been approved.*

DEPARTMENT OF HUMAN SERVICES

BILL BRYAN, CHAIR

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Robert O. Choate, Professor and Director of Rehabilitation Counselor Education Program—HS 210

Holly Abel, Assistant Professor and Director of School Counselor Education Program—HS 218

Wendy K. Enochs, Assistant Professor and Director of Community Counselor Education Program—HS 214

Carol Harrison, Associate Professor and Director of Special Education Program—HS 228

Paige Mask, Assistant Professor and Director of the Diagnostician Program—HS 233

Michael D. McKaig, Professor and Director of Communication Sciences and Disorders—HS 205F

Herbert A. Chris Ninness, Professor and Director of School Psychology Programs—HS 231

Dixie Mercer, Associate Professor and Director of Visual Impairment Program—HS 223

Graduate Advisers

S. Abbott, H. Abel, F.L. Brister, W.H. Bryan, B.D. Bryant, R.O. Choate, W.K. Enochs, D.E. Fish, D.L. Jeffrey, M.B. Jephson McGill, D. Lawson, J. Lauter, D.F. Mercer, M.D. McKaig, G.L. McCuller, H.A. Chris Ninness, R. Rumph, W.F. Weber.

Objectives of the Department

The Department of Human Services offers programs of study leading to the Master of Education Degree with a major in special education, the Master of Science Degree with a major in communication sciences and disorders, the Master of Arts Degree with a major in counseling as well as courses that serve to enhance the professional development of teachers and persons engaged in other human service occupations.

The counseling program enables students to select an emphasis in school counseling, community counseling or rehabilitation counseling. All programs enable graduates to be eligible for the Licensed Professional Counselor License (LPC).

The special education major is designed to 1) improve the competence of special education teachers, 2) provide the opportunity for professional certification as an educational diagnostician, and 3) lead to Visual Impairment Endorsement.

The mission of the Communication Sciences and Disorders Program is to prepare knowledgeable professionals committed to enhancing the quality of life of persons

with communication disorders. To meet this mission, the program emphasizes the importance of scientific study, critical thinking skills, interdisciplinary collaboration, ethical principles, the responsibility to educate the public about communicative disorders, and the importance of continued professional development throughout one's career.

The school psychology major is designed to 1) improve the management of children with behavior problems and 2) meet the academic and clinical requirements for certification by the National Association of School Psychologists.

Graduate Programs in Human Services

Master of Arts Degree in School Psychology

This Master of Arts Program has a special emphasis on applied research with three central components: functional assessment, consultation and intervention. School psychologists are professionals trained in the concepts and techniques of both psychology and behavior analysis. School psychologists work with children in the areas of assessment and treatment of emotional/behavioral disorders and learning disabilities. Also, they act as consultants to teachers, parents and school administrators. School psychologists may be employed in a variety of settings including schools, day care centers, hospitals, mental health clinics, and child guidance centers.

Current professional standards require graduation from a six-year degree program. The School Psychology program at SFA is fully approved by the Texas Higher Education Coordinating Board. The program has been developed to meet the standards set forth by the National Association of School Psychologists (NASP) and the Texas State Board of Examiners of Psychologists. Graduates are awarded the Master of Arts degree in School Psychology and are eligible to take the National Certification School Psychology Test and may apply for state testing and Texas state licensure as a Licensed Specialist in School Psychology (LSSP).

Admission to the program may take place when a student has completed all requirements for full admission to the Graduate School and the school of psychology program.

Application Process:

To the Graduate School

1. Application to Graduate School
2. Official transcript(s)
3. Verbal and quantitative Graduate Record Examination (GRE)

To the department

4. Three letters of recommendation—one of which should be from a school psychologist
5. Undergraduate cumulative GPA of at least 3.0
6. Graduate cumulative GPA of at least 3.5 (if applicable)
7. A written letter of professional goals
8. A completed School Psychology Information sheet
9. A current resume

Standards & Curriculum

Standards set forth by the National Association of School Psychologists (NASP) for the master's degree program consist of a minimum of 60 semester credit hours and a 1,200-hour internship or the equivalent beyond the baccalaureate degree, and shall

culminate in institutional documentation. In accordance with the standards described by NASP, the School (and Behavioral) Psychology Program will ensure substantial preparation of all school psychology trainees in each of the following areas through courses, course content or other appropriate means.

SFA School and Behavioral Psychology Courses

PSY	504	Biopsychology	3 hours
COU	535	Multi-cultural Counseling	3 hours
EPS	585	Advanced Human Growth and Development	3 hours
SPE	567	Trends in Educating Exceptional Children	3 hours
EPS	560	Learning & Cognitive Development	3 hours
EPS	561	Social Basis of Behavior	3 hours
SPE	562	Instructional Strategies for Exceptional Learners	3 hours
EPS	563	Individual Case Consultation	3 hours
AED	501	Introduction to Educational Leadership	3 hours
EPS	554	Achievement Testing	3 hours
EPS	545	Individual Intelligence Testing	3 hours
COU	531	Theories of Counseling	3 hours
EPS	502	Applied Behavior Analysis	3 hours
EPS	550	Research Methods	3 hours
EPS	555	Practicum in School Psychology	3 hours
EPS	565	School Psychology	3 hours
EPS	595	Internship in School (2 sem) Psychology	6 hours
EPS	589	Thesis Research in School Psychology	3 hours
EPS	590	Thesis Writing in School Psychology	3 hours
Total			60 hours
PSY 517 Professional & Ethical Issues (required for certification/licensure)			
three prerequisite/leveling courses are required: Physiological Psychology			
Educational Psychology			
Learning Theory			

Master of Arts Degree in Counseling

Application Deadlines: 30 Days Prior to Beginning of Semester

Admission to the master's degree program in counseling is contingent upon admission to the Graduate School; therefore, students applying to the graduate counseling program must first apply to the Stephen F. Austin State University Graduate School. Details regarding Graduate School application are contained in this Graduate Bulletin and online at www.sfasu.edu/bulletin/. Criteria for clear admission to the Graduate School include a 2.8 GPA on the last 60 hours of undergraduate work and a 2.5 on all undergraduate work. Further, the applicant must present General Test Scores on the Graduate Record Examination (GRE).

The Department of Human Services Counselor Education Program admission procedures require:

1. Application to Graduate School
2. Official transcript(s)
3. Verbal and quantitative Graduate Record Examination (GRE) scores
4. For clear admission, a composite score of a student's last 60 undergraduate hours GPA multiplied by the GRE scores that equals at least 2,000.
5. Three (3) letters of recommendation—of which should be from a professional in the field of study. Recommendation forms available at the Counseling Program Offices or online at www.sfasu.edu/hs.
6. Autobiographical letter of application to the department—Your responses to the following questions should total two to four pages, typed and double-spaced.
 - A. Why did you choose counseling as a possible career, and what life experiences have led you to your decision to enter the helping profession?
 - B. Each person has two people who are important and whose feelings and opinions are valued. Tell something about your "reference group" (those who are valued) and indicate who they are and how they have affected you.
7. Current resume.

The applicant's file is reviewed by the Counseling Program Admissions Committee, which makes recommendations for acceptance or rejection of individual applicants to the program. Students are notified by letter of the committee's recommendation on their application. The Counselor Education Program has a rolling admission policy. Candidates for admission will only be considered following the submission of a completed application packet. The packet is not complete until all admission criteria are received. Students who do not have their GRE scores on file by the time they make application to the program will not be provisionally accepted to the Graduate School for study in counseling.

The Graduate School allows students to take up to 12 semester hours of course work under "Post-Baccalaureate Student" status, prior to their being formally accepted into one of the school's recognized degree programs. Counseling program guidelines allow six hours of course work in counseling prior to admission. Attending classes under the Post Baccalaureate student status does not imply admission to the program.

The review of all graduate applicants involves consideration of multiple factors. In addition to criteria set by the Graduate School, the department considers the following:

- GPA
- Match between professional goals and the department's mission
- Letters of reference
- Professional development, experience and accomplishments
- Bilingual/multilingual proficiency
- GRE scores
- Evidence of leadership potential
- Personal interviews

Other factors, including quality of prior educational opportunities (high school and undergraduate), family's educational background, disability, socio-cultural experiences, English language proficiency (for international students, measured by the TOEFL score), and any other factors that may have significantly influenced the applicant's academic and professional record to-date. Program areas may use additional factors in the review process, as appropriate (e.g., minimum number of years of teaching or field experience, adequate professional preparation in the chosen area of specialization).

Steps in the graduate admissions review process:

- The completed application file is forwarded to the chosen program area for review
- The program area makes a recommendation to the Counseling Admission Committee
- The recommendation by the Counseling Admission Committee is then submitted to the department chair who then forwards the recommendations to the College of Education and to the Graduate School
- The applicant is notified of the final decision by the department chair and by the College of Education dean

Applicants are not guaranteed admission even though they meet the minimum requirements, because some graduate programs have limited space and facilities. The Community, School, and Rehabilitation Counseling Programs in the Department of Human Services are nationally accredited by the Council on Accreditation of Counseling and Related Educational Programs (CACREP) and the Council on Rehabilitation Education (CORE).

The following tracks are available for counseling majors.

School Counseling (LPC)		
• Core courses: COU 520, 531, 533; EPS 559, 585	15 hours	
• Additional required courses: EPS 550; COU 524, 525, 528, 529 or 522, 535, 591, 594, SPE 567	27 hours	
• Internship (COU 595)	6 hours	
Total	48 hours	
Community Counseling (LPC)		
• Core courses: COU 520, 531, 533; EPS 559, 585	15 hours	
• Additional required courses: EPS 550; COU 525, 528, 535, 539, 591, 594	24 hours	
• Internship (COU 595)	6 hours	
• Graduate electives		63
Total	48 hours	
Rehabilitation Counseling (LPC)		
• Core courses: COU 505, 531, 533; EPS 559, 585	15 hours	
• Additional required courses: COU 522, 525, 526, 528, 535, 541, 542, 591, 594;	24 hours	
• Internship (COU 595)	6 hours	
• Graduate electives		63
Leveling classes PSY 275, EPS 485, RHB 405, 407, 490		
Total	48 hours	

Master of Education in Special Education

Application Deadlines: Thirty days (30) prior to the beginning of each semester.

Admission to the master's program in special education is contingent upon admission to the Graduate School; therefore students interested in seeking this degree must first apply and be admitted to the Graduate School. Admission to the Special Education and the Special Education/Educational Diagnostician Certification program requires a minimum score of 800 (combined, verbal and quantitative) on the Graduate Record of Examination (GRE) and a factor score of at least 2,250. This score is obtained by multiplying the combined verbal and quantitative GRE scores by the GPA of the student's last 60 undergraduate hours earned. Students will not be accepted to the master's program in special education unless the minimum combined factor score of 2,250 has been met. Additionally, the applicant must submit three professional letters of recommendation, a current resume, and a typed, double-spaced statement (minimum of 3-5 pages) stating his/her experience in the field of education and philosophy on educating students with special needs and justification for admission to this program. All scores and application materials MUST be received a minimum of 30 days prior to the beginning of the semester the student is requesting admission to attend.

Upon receiving the completed application, the applicant's file is reviewed by the Special Education Program Admissions Committee whose members will make a determination of acceptance or non-acceptance into the special education program. The committee's recommendation is then sent to the department chair for approval and then forwarded to the dean of the College of Education for approval. All prospective candidates will receive written notice of admission status following the review and decision of the committee and must meet with an adviser prior to enrolling each semester thereafter.

Admission Requirements Summary:

1. Completed application to the SFA Graduate School.
2. Minimum 800 score on the GRE (combined, verbal and quantitative)
3. Composite score of student's last 60 undergraduate hours GP multiplied by the GRE score and must equal 2,250 total score.
4. Three professional letters of recommendation
5. Resume
6. Statement of philosophy, teaching experience and rationale for seeking admission to the program.

The Graduate School allows students to take up to 12 semesters of course work under post-baccalaureate student status prior to formal acceptance into one of the school's recognized degree programs. However, attending classes under the post-baccalaureate status does not imply admission to the special education graduate program.

The three graduate degree options for students seeking an M.Ed. with a major in special education are as follows:

1. M.Ed. with major in special education
 SPE 539, 567, 568, 561, 562
 EPS 502, 559, 560, 585
 Additional 12 hours elective planned/approved by adviser
- *2. M.Ed. Major in Special Education and Certification as an Educational Diagnostician Program:
 The Educational Diagnostician program provides graduate-level preparation in the area of special education, assessment and law. An educational diagnostician

is a master's-level special education professional who works within the public school system to ensure that special education services are provided to eligible students in accordance with all applicable federal law and regulations, state statutes, Texas Education Agency, and commissioner of education. The program consists of master's-level coursework and preparation for certification as an Educational Diagnostician. An individual possessing a master's degree in a related field may be eligible for the option of seeking certification only as an Educational Diagnostician. Additional information regarding the certification only option may be obtained by contacting the Stephen F. Austin Educator Certification Office at (936) 468-3409.

SPE 567, 568, 561, 562, 571

EPS 502, 544, 545, 555, 559, 560

SPE 539 or an equivalent is a prerequisite for coursework. The core curriculum, consisting of EPS 559 and SPE 561, 562 and 567, must be completed as the first 12 hours of graduate study. SPE 571 should be taken the semester prior to finishing the program; SPE 555 should be taken as the last course.

- **3. M.Ed. Major in special education and endorsement in visual impairment
SPE 515, 517, 518, 551, 552, 553, 554, 556, 558, 570.

*To obtain a professional certification as an educational diagnostician, a master's degree from an accredited institution of higher education must be completed, the person must pass the TExES #163 exam, and have two years of classroom teaching experience in a public or accredited private school.

**To obtain a teaching certification in visual impairment, the person must have a Texas Teacher Certificate and must complete SPE 329 and SPE 432 or equivalent (SPE 567 AND SPE 532) if not already certified as a special education teacher.

Prerequisites:

To obtain a teaching certificate in Visual Impairment, you must have a Texas teacher certificate and SPE 329 and SPE 432 or their equivalent (SPE 567 and 532), if you are not already certified in special ed.

Consult an adviser for specific course requirements.

Master of Education in Special Education with a Concentration in Visual Impairment

Cohorts:

Only one graduate cohort in visual impairment is admitted each year. Applications are accepted from September through March, and students begin their training during the first summer session. In order to be admitted to the vision program, the prospective student must complete the following steps:

1. Complete an SFASU Graduate School application form indicating his/her intention to pursue a graduate degree.
2. Complete the Graduate Records Examination (GRE). The score obtained on the GRE multiplied by the student's grade point average (GPA) on his/her last 60 semester hours of academic work must equal 2,250 or more.
3. Provide three letters of recommendation with one being from his/her direct

supervisor in his/her current position.

4. Write a short (1-2 page) paper on his/her philosophy of education, understanding of the role of the teacher of the visually impaired (TVI) or certified orientation and mobility specialist (COMS), and his/her reasons for pursuing this degree or career change.

There are four graduate training options provided by the vision program:

1. Texas Education Agency endorsement as a teacher of students with visual impairments:
A valid Texas state teaching credential
SPE 515, 516, 517, 518, 551, 552 and 558
Passage of the Braille and visually impaired TExEs professional exams
2. Certification as a certified orientation and mobility specialist by the Academy for Certification of Vision Rehabilitation and Education Professionals (ACVREP)
SPE 500 (six), 515, 516, 518, 519, 552, 594, 595 (six)
Passage of the ACVREP national certification exam
Please note that no teaching credential is required for COMS certification.
3. M.Ed. in special education with an endorsement as a teacher of students with visual impairments
A valid Texas state teaching credential
SPE 515, 516, 517, 518, 551, 552, 570, 558
EPS 559
Nine semester hours from the following: SPE 519, 520, 521, 553, or 556
Passage of the Braille and visually impaired TExEs professional exams
Passage of comprehensive exams
4. M.Ed. in special education with a concentration in visual impairment
SPE 515, 516, 518, 519, 552, 556, 570, 521
EPA 559
Nine semester hours approved by the adviser.

Prerequisites:

To obtain a TVI, you must have either a valid teaching certificate in special education or complete SPE 329 or 567 and SPE 432 or 532.

Advisement:

Applicants to the program are encouraged to consult with an adviser in the vision program as early as possible in the application process.

Master of Science Program in Communication Sciences and Disorders

The master's degree in communication sciences and disorders is required for Texas licensure and for clinical certification by the American Speech-Language-Hearing Association. Upon completion of the master's degree, the student must complete a clinical fellowship and pass an examination to receive licensure and certification. The master's program is nationally accredited by the American Speech-Language-Hearing Association. The program also is a member of the Council of Academic Programs in

Communication Sciences and Disorders.

Admission Requirements

Applicants are admitted to the Master of Science program in communication sciences and disorders only in the fall semester of each year. The application deadline is March 1. To be considered for admission review, the applicant must submit the following materials:

To the Graduate School

1. Application to Graduate School*
2. Official transcripts*
3. Verbal and quantitative Graduate Record Examination (GRE) scores*

To the Admissions Committee

4. Three letters of recommendation, including at least one from a professional in the field**
5. Autobiographical letter of application indicating why you chose communication sciences and disorders as a possible career**
6. Bachelor's degree in communication sciences and disorders or equivalent
7. A factor of at least 2,550 obtained by multiplying combined verbal and quantitative GRE scores times the GPA of the last 60 undergraduate hours. In order to be considered for admission, applicants must have a combined verbal and quantitative GRE score of at least 850, a GPA of at least 3.0 for the last 60 undergraduate hours, and a GPA of at least 3.0 for all undergraduate course work.

(*Send to Graduate Office, P.O. Box 13024 - SFA Station, Nacogdoches, Texas 75962, (936) 468-2807)

(**Send to Program Director, Communication Sciences and Disorders, P.O. Box 13019 - SFA Station, Nacogdoches, Texas 75962, (936) 468-1252.)

It is the responsibility of the applicant to make sure that all application materials are received by the deadline of March 1. Students will not be permitted to register for graduate courses in communication sciences and disorders unless they have been admitted to the master's degree program.

Curriculum

The Master of Science program in communication sciences and disorders consists of a minimum of 57 semester hours, which must include SPH 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 514, and EPS 550.

These requirements include a minimum of 400 clinical contact hours. Twenty-five hours must be spent in clinical observation, and 375 hours must be spent in direct client contact. The observation and direct client contact hours must be within the scope of practice of speech-language pathology. The requirement for clinical contact hours is met by registering for SPH 504. All graduate students are required to enroll in SPH 504 every semester until they graduate from the program.

Students who receive a clinic grade lower than B are placed on clinical probation. Students placed on clinical probation are not allowed to enroll in clinical practicum during the next semester, and they are required to follow an individualized remediation program developed by the faculty. Students who receive a second clinic grade lower than B are placed on academic suspension.

Course Sequence

Students take courses in a specified sequence over the period of two years. There are no elective courses.

First Year

Fall	Spring	Summer I	Summer II
SPH 504	SPH 500	SPH 504	SPH 504
SPH 506	SPH 504		
SPH 507	SPH 510		
SPH 511	SPH 508		
SPH 512	SPH 514		

Second Year

Fall	Spring
SPH 501	SPH 503
SPH 502	SPH 504
SPH 504	SPH 505
EPS 550	SPH 509
	Comprehensive Exam

Additional Requirements

Candidates for the M.S. degree must apply for admission to candidacy. Students will not be admitted to candidacy until they have completed 12 hours of required courses and have a GPA of at least 3.0 in all courses in the major. A departmental admissions committee may require a continuation or diagnostic examination before approving admission to candidacy. The candidate also must pass a departmental comprehensive examination covering specific competencies in the major and have registered to take the National Examination in Speech Language Pathology. These examinations are taken by the student during the spring of the final year of graduate study. Students who are not currently enrolled in at least one course at SFA are not eligible to take the comprehensive examination. All requirements for the master's degree must be completed within six years.

Graduate Faculty

Professors

William H. Bryan, M.A., Western Michigan University, Orientation and Mobility

Bob D. Bryant, M.A., Western Michigan University, Orientation and Mobility

Robert O. Choate, Ed.D., University of Nevada, Counseling
and Educational Psychology

Melanie Jephson McGill, Ph.D., University of Texas at Austin, Special Education

David M. Lawson, Ph.D., University of North Texas, Counseling

Judith Lauter, Ph.D., Washington University at St. Louis,
Communication Sciences

Glen L. McCuller, Ph.D., Utah State University, Special Education

Michael D. McKaig, Ph.D., University of Oklahoma Health Sciences Center,
Speech Language Pathology

H. A. "Chris" Ninness, Ph.D., University of North Texas, Texas Woman's University,
Psychology and Education
William F. Weber, Ed.D., University of Northern Colorado,
Rehabilitation Counseling

Associate Professors

Frank L. Brister, Ph.D., University of Southern Mississippi, Audiology,
Speech Language Pathology, Psychology
Dixie Mercer, Ph.D., Texas Tech University, Special Education

Assistant Professors

Holly Abel, Ph.D., Texas A&M University Corpus Christi, Counselor Education
Susan Abbott, Ph.D., Florida State University, Communication Disorders
Wendy K. Enochs, Ph.D., University of Arkansas, Counselor Education
Paige Mask, Ph.D., Texas Woman's University, Special Education, Educational
Administration

Courses in Counseling (COU)

- 505 Introduction to Rehabilitation Counseling.** A study of the process and practice of rehabilitation counseling including intake, individual assessment, planning, utilization of client and community resources, implementation and follow-up. Prerequisite: COU 507/RHB 407.
- 507 Vocational Evaluation and Job Placement of Persons with Severe Disabilities.** Exploration of services offered by rehabilitation facilities in working with persons with severe disabilities. Beginning knowledge and skills will be developed in vocational evaluation, work adjustment and job placement.
- 520 Introduction to Counseling.** An overview of the counseling profession in school, agency and other human service settings. Prerequisite: Permission of instructor.
- 521 Seminar: Alcohol and Drug Abuse.** A survey of the medical, psycho-social, and legal aspects of alcohol and drug abuse.
- 522 Family Counseling.** A survey of selected family counseling theories and techniques. Prerequisite COU 520, Permission of instructor.
- 523 Legal and Ethical Issues in Counseling.** Orientation to ethical standards and research relevant to ethical behavior of counselors in rehabilitation, mental health and school settings.
- 524 The School Counselor.** A general survey on the role and responsibility of the school counselor - K-12. Prerequisites: COU 520, 531, 533.
- 525 Vocational and Educational Information.** Career development theories and use of occupational and educational information in counseling.
- 526 Medical Orientation to Counseling.** A study of physical disabilities and their relationship to vocational counseling and rehabilitation.
- 527 Couples Therapy.** An in-depth study of the methods and strategies of the major models of couples therapy.
- 528 Group Counseling.** Application of group techniques and processes in counseling. Prerequisites: COU 531, 533.
- 529 Child and Adolescent Therapy.** Specialized training in the techniques

and strategies in child and adolescent therapy.

- 531 Theories of Counseling.** A survey of selected counseling theories. Prerequisites: COU 520 and permission of instructor.
- 533 Counseling Skills and Techniques.** Application of individual counseling skills to build client rapport and move clients toward change. Prerequisites: COU 520, 531 and permission of instructor. (Grade of B or better to continue in program. May repeat one time).
- 535 Multicultural Counseling.** Counseling culturally different clients. Prerequisite COU 531.
- 538 Advanced Group Techniques.** Participation as client and therapist in the application of group counseling techniques. Prerequisite: COU 528.
- 539 Community and Agency Counseling.** A foundational course in theoretical and applied information on community counseling services that includes a variety of delivery systems, staffing procedures, emergency services, treatment paradigms and collaboration among mental health professionals. Prerequisites: COU 520, 531.
- 540 Special Studies in Counseling.** A study of current topics in counseling. May be repeated for credit when topic changes. Prerequisites: 12 semester hours in counseling and permission of instructor.
- 541 Seminar in Rehabilitation.** A survey of research methods in rehabilitation counseling and vocational rehabilitation. Emphasis will be placed on knowledge, skills, values, and ethics in rehabilitation counseling and the research relevant to current issues. Prerequisites: COU 505, 507, 590
- 542 Psychosocial Aspects of Counseling.** Reviews the psychological and social aspects of individuals and family response to disability and chronic illness, including findings of research on the adjustment process and on the relationship of psychophysiological and social variables to the acquisition and maintenance of health and illness/disability.
- 590 Rehabilitation of the Severely Disabled.** An in-depth study of the process of rehabilitation with special emphasis on the case management and service provision to individuals with severe and multiple disabilities. Prerequisite: COU 505/RHB 405.
- 591 Mental Health Counseling.** Biopsychosocial framework for the study of mental health and mental disorders. Client conceptualization, assessment and treatment planning. Prerequisites: COU 531, 533 and EPS 559.
- 593 Pre-Practicum.** Participation in critiquing interviewing/counseling skills and supervising skill development.
- 594 Practicum In Counseling.** One hour individual instruction, One and a half hour group supervision and 16 hours lab are required per week. Prerequisites: COU 520/505 533, 535, EPS 591 and admission to candidacy and program approval. Course 528 can be taken concurrently with practicum. May be repeated once for an additional three hours credit.
- 595 Internship in Counseling.** Six hours credit. A post-practicum field placement requiring a minimum of 600 clock hours of supervised

counseling experience. Placements may include such settings as rehabilitation centers, schools and community agencies. (Pass-Fail)
Prerequisites: COU 594 and program approval.

Courses in Education Psychology (EPS)

Unless otherwise indicated, courses are three semester hours credit.

- 502 Applied Behavior Analysis.** Functional assessment and data-based treatment for students with disabilities. Prerequisite: EPS 560.
- 544 Individual Academic Assessment.** The administration and interpretation of tests designed to measure achievement, adaptive and maladaptive behavior, and social/emotional behavior for use in educational planning and interventions with disabled students.
- 545 Individual Intelligence Testing.** The administration and interpretation of intelligence tests, report writing, selection and interpretation of assessment batteries including measures of social/emotional behavior. Prerequisite: EPS 559.
- 550 Research Methods.** Advanced study of research procedures. Prerequisite: EPS 559.
- 555 Practicum In Diagnostic Evaluation.** Supervised experience in administration and interpretation of various psycho-educational instruments resulting in written diagnostic evaluation reports or supervised practicum experience providing instruction to children with disabilities. Prerequisites: EPS 545 and consent of instructor.
- 559 Tests and Measurement.** An in-depth look at the characteristics, use, administration and interpretation of educational, vocational and psychological tests. Emphasis is placed on determining reliability and validity of tests.
- 560 Learning and Cognitive Development.** Learning and Cognitive Development: Study of the basic processes of learning that determine student learning and cognition with emphasis on applications to the instruction or treatment of students with disabilities.
- 561 Social Basis of Behavior.** Seminar of the effects of the social environment including culture on individual behavior.
- 563 Individual Case Consultation.** Techniques of individual case consultation in school psychology. Includes consultation with parents, teachers, administrators and other mental health or educational professionals.
- 565 School Psychology.** Advanced study of consultation, assessments and intervention strategies in the school system. Preparation for National Certification as a school psychologist.
- 575 Advanced Graduate Studies.** Independent instruction. May be repeated under different topics:
a. Educational psychology topics b. Counseling topics
c. Special education topics d. Speech pathology topics
- 585 Advanced Human Growth and Development.** A study of current research related to emotional, social and mental development.
- 589* Thesis Research.** Individual study. Prerequisites: 12 semester hours graduate education and permission of major professor.
- 590* Thesis Writing.** Individual study. Prerequisites: 589 and permission of

major professor.

**A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis prospectus has been approved.*

Courses in Special Education (SPE)

- 500 Clinical Practicum in Orientation and Mobility.** Six semester hours, two hours lecture and 10 hours laboratory per week. Provides the student with the opportunity to study and practice the skills and concepts needed by disabled individuals to safely travel in all environments.
- 503 Special Education for the Classroom Teacher.** One hour seminar focusing on the special education student in the regular education classroom, especially the role of the classroom teacher in the education of the child with disabilities.
- 515 Programs and Services for Individuals with Visual Impairment.** An overview of the field of visual impairment. Topics covered include the history of the development of educational and rehabilitation programs, legal definitions and requirements, and a brief examination of the agencies and resources that are available to support individuals with visual impairment.
- 516 The Eye, Its Function and Health.** The structure, function and possible pathologies of the eye. Social, vocational and educational implications of visual problems together with skills in communicating with medical rehabilitation specialists.
- 517 Communication Skills for Persons with Visual Impairment (Braille).** Students are taught to transcribe and read contracted literary Braille and Nemeth code. They also are taught to use the slate and stylus. The course culminates with the administration of the Braille Proficiency Test that must be successfully completed in order to receive a bar code for the TExES Braille exam.
- 518 Orientation and Mobility Skills and Concepts.** Development of sighted children versus children with visual impairment is considered. Body imagery, concept development, spatial awareness and mobility are considered. Body imagery, concept development, spatial awareness and mobility are emphasized.
- 519 Low Vision.** Visual assessment and intervention methods for persons with low vision.
- 520 Teaching the Expanded Core Curriculum to Students with Visual Impairments.** The expanded core curriculum includes areas such as self care, cooking, home management, vocational awareness, social skills, and recreation and leisure skills. This class provides an opportunity to delve deeper into the importance of the expanded core curriculum and how it should be taught. Prerequisite: Certification as a TVI or COMS, or instructor approval.
- 521 Teaching Literacy Skills for Students with Visual Impairments.**

This class examines important areas related to the development of literacy for students with visual impairments. Topics including pre-Braille skills, teaching Braille to students who also use print as one of their literacy tools, and literacy skills as they relate to students who have multiple impairments.

- 532 Educational Appraisal of Exceptional Children.** Fundamental concepts in measurement with emphasis upon the utility of various test and assessment procedures.
- 539 Principles of Behavior.** Management for classroom and community use with students with disabilities.
- 551 Working with Academic Students Who Have Visual Impairments.** Resource materials, curriculum adaptations, equipment, current theories and techniques for teaching students who are blind and visually impaired. Prerequisite: SPE 516.
- 552 Instructional Strategies for Individuals with Visual and Multiple Impairments.** This course is designed to provide the student with knowledge and skills needed to work with persons who have multiple impairments in addition to visual impairments. Topics include disabilities other than visual impairment, specific strategies for assessing and planning instruction for persons with multiple impairments, and working with families. Prerequisite: SPE 516.
- 553 Technology for Persons with Visual Impairment.** Since technology in this field is changing so rapidly, it is not the objective of this course to teach the use of specific computer systems. Rather, it is aimed to give the student an understanding of the foundational principles of adaptive technology and of the operating and use principles for broad areas of equipment (e.g. screen readers). Prerequisite: Endorsement as a teacher of students with visual impairments or COMS, or instructor approval.
- 556 Infancy and Early Childhood for Individuals with Visual Impairment.** This class provides an in-depth examination of how learning takes place during the first five years of life of persons with visual and visual/multiple impairments. It also provides students with vital information about educational programming and intervention strategies that apply to these children. Prerequisite: SPE 516.
- 558 Practicum in Special Education.** The practicum experience enables the student to apply academic learning experiences and to integrate the academic and practical aspects of his/her preparation program. Permission of adviser is required.
- 560 Children with Behavioral Disorders.** The etiology, characteristics and remediation of behavior disorders in children.
- 561 Medical and Educational Aspects of Sensory and Motor Disabilities.** The development of basic sensory discrimination and perceptual processes and abnormalities manifested by exceptional children. Prerequisite: SPE 567.
- 562 Instructional Strategies for Exceptional Learners.** Methods of evaluation and remediation of sensory and perceptual deficiencies. Prerequisite: SPE 567.
- 564 Early Childhood Special Education.** A comprehensive overview of the field including medical aspects of serving young children

with disabilities, methods, technology, transition, and interagency coordination. Prerequisite: SPE 329 or 567.

- 565 Educational Programming for Students with Autism.** Etiology, research, characteristics, and program components related to children and youth with autism. Traditional and current causation will be discussed with subsequent implications drawn for providing appropriate educational interventions.
- 567 Trends in Educating Exceptional Children.** An advanced survey course. Emphasis on current research.
- 568 Seminar in Special Education.** Problems in special education, current research, implications for teaching. Prerequisite: SPE 567.
- 570 Special Studies in Special Education.** A study of current topics in special education. May be repeated for credit when topic changes (a) Gifted and Talented (b) Early Childhood Intervention (c) Multi-handicapped (d) Vocational Adjustment (e) Visually impaired. Prerequisite: 12 semester hours in special education.
- 571 The Educational Diagnostician.** The roles and responsibilities of the educational diagnostician.
- 593 Intermediate Practicum in Orientation and Mobility.** Two hour seminar and five hours of lab per week. Practicum experience teaching orientation and mobility to individuals with a visual impairment under the supervision of the practicum supervisor. Prerequisite: SPE 500.
- 594 Advanced Clinical Practicum in Orientation and Mobility.** Two hours seminar and five hours lab per week. Supervised practicum experience requiring a minimum of 60 hours of teaching orientation and mobility to individuals with a visual impairment.
- 595 Practicum in Orientation and Mobility.** Three to 12 hours credit. Supervised practicum experience requiring a minimum of 350 hours teaching orientation and mobility to individuals with a visual disability. Prerequisites: SPE 500, 593, 594 and permission of instructor.

Courses in Speech Language Pathology (SPH)

- 500 Aphasia.** Language and communication disorders due to neuropathic deficits. Prerequisites: Graduate standing or consent of instructor and SPH 480.
- 501 Phonological Disorders.** Advanced study of etiologies, symptomatology, evaluation, and remediation of phonological disorders. Prerequisites: 12 semester hours of speech-language pathology and audiology.
- 502 Fluency Disorders.** Advanced study of the nature, etiology, evaluation, and remediation of stuttering. Prerequisites: 12 semester hours of speech-language pathology and audiology.
- 503 Language Disorders in Children.** Study of the nature, etiology and remediation of language disorders in children. Prerequisites: 12 semester hours of speech-language pathology and audiology or consent of instructor.

- 505 Augmentative and Alternative Communication.** Study of the application of augmentative and alternative communication systems to specific disabilities. Prerequisites: 12 semester hours of speech language pathology and audiology or consent of instructor.
- 504 Clinical Practicum: Speech Language Pathology.** Three semester hours, one hour lecture and six hours lab per week. May be repeated for additional credit. Prerequisites: GPA of at least 3.0 in major courses and approval of screening committee; 25 observation hours.
- 506 Dysphagia.** Study of the nature, etiology, evaluation, and treatment of swallowing disorders. Prerequisites: SPH 233 and graduate standing.
- 507 Speech Science.** Physical bases and processes of the production and perception of speech, language and hearing. Prerequisite: SPH 210 and 233.
- 508 Neuropathologies of Speech.** Etiology, symptomatology, assessment, and therapeutic intervention for the dysarthrias and apraxias of speech associated with cerebral palsy and other neurogenic disorders. Prerequisites: 12 semester hours of speech language pathology and audiology or consent of instructor.
- 509 Seminar: Research In Speech Language Pathology.** Advanced study of research techniques in speech language pathology. Includes evaluation and analysis of research methodologies and experimental designs. Prerequisites: 12 semester hours of speech-language pathology and audiology and EPS 550.
- 510 Special Studies In Speech Language Pathology and Audiology.** A study of current topics in speech-language pathology and audiology. May be repeated when topic changes. Prerequisites: 12 semester hours of speech-language pathology and audiology or consent of instructor.
- 511 Advanced Audiology.** Advanced study of audiology, including instrumentation, administration and interpretation of impedance audiometry. Includes study of prevalent types of hearing disorders in children and adults. Prerequisites: 12 semester hours of speech language pathology and audiology or consent of instructor.
- 512 Cleft Palate and Voice Disorders.** Advanced study of etiologies, symptomatology, evaluation, and remediation of speech and language problems associated with craniofacial anomalies and voice disorders. Prerequisites: 12 semester hours of speech-language pathology and audiology or consent of instructor.
- 514 Communication Disorders in Multicultural Populations.** Nature and treatment of communication disorders in culturally and linguistically diverse populations. Prerequisite: 12 semester hours of speech-language pathology and audiology or consent of instructor.

DEPARTMENT OF
KINESIOLOGY AND HEALTH SCIENCE

MEL E. FINKENBERG, CHAIR AND
GRADUATE PROGRAM ADVISER
Health & Physical Education 204
Phone: (936) 468-3503
Fax: (936) 468-1850
kinesiology@sfasu.edu
www.kin.sfasu.edu

Objectives of the Department

The Department of Kinesiology and Health Science offers programs of study leading to the Master of Education degree and the Master of Science degree. Students also have an opportunity to enroll for post-graduate study and may transfer some course work required for the Ph.D. in health or kinesiology to Texas A&M University. (See the section on cooperative graduate degrees.)

The purpose of the graduate program is to improve the competency of physical education and health educators in elementary and secondary schools and to provide an educational background for the entry-level certified athletic trainer. It also is the conscious intent of the department to serve as a center for conducting research and for interpreting new professional developments in health science and kinesiology (physical education), and athletic training.

The graduate program in kinesiology is devoted to broadening the scope and depth of the students' knowledge and understanding of the profession and the discipline.

The department has been determined to be in compliance with the guidelines established by the National Association for Sport and Physical Education (NASPE) for its kinesiology curriculum. The entry-level athletic training education program received approval for the Master of Science in Athletic Training by the Texas Higher Education Coordinating Board and is currently pursuing accreditation by the Commission on Accrediting Allied Health Programs (CAAHEP).

Kinesiology Graduate Program Requirements

Requirements for admission are the same as the general requirements for admission to the Graduate School. Students wishing to pursue a master's degree in physical education should have a bachelor's degree with a major or minor in kinesiology.

A major in kinesiology requires 30 semester hours in the thesis program and 36 semester hours, 12 of which can come from a minor area of study, in the non-thesis program. Graduate students who intend to continue their graduate studies beyond the master's degree are encouraged to elect the thesis program. Students entering the graduate program must take a common 12-hour core and then can select from two emphasis tracks (pedagogy and scientific foundations).

Core:

KIN 545	Current Trends and Issues in Physical Education and Recreation	3 hrs.
KIN 550	Introduction to Research in Health and Physical Education	3 hrs.
KIN 585	Research and Statistical Analysis in Health and Physical Education	3 hrs.
KIN 553	Physiology of Exercise	3 hrs.

Pedagogy Emphasis: Select 12 hours from the following courses.

KIN 511	Organization and Administration of Physical Education	3 hrs.
KIN 515	Adaptive Physical Education	3 hrs.
KIN 520	Advanced Instructional Strategies in Physical Education	3 hrs.
KIN 525	Curriculum Construction in Physical Education	3 hrs.
KIN 562	Motor Learning	3 hrs.

Scientific Emphasis: Select 12 hours from the following courses.

KIN 502	Computer Videography	3 hrs.
KIN 540	Development of Nontraditional Fitness Programs	3 hrs.
KIN 560	Biomechanics	3 hrs.
KIN 562	Motor Learning	3 hrs.
KIN 565	The Role of Sports in Society	3 hrs.
KIN 568	Sport Psychology	3 hrs.

Thesis Option:

Students selecting the thesis option will complete the 12-hour core, a 12-hour emphasis track, and KIN 589 Thesis Research and 590 Thesis Writing for a 30-hour program.

Non-Thesis Option:

Students selecting the non-thesis option will complete the 12-hour core, a 12-hour emphasis track and 12 hours of approved electives or a 12-hour minor for a 36-hour program.

In addition to the major program, the department also offers a minor program in kinesiology. The minor consists of nine to 15 semester hours.

A final comprehensive examination is required of all master's degree candidates who are majoring in kinesiology. Students with minors in other departments will be subject to policies and regulations of those departments for a portion of their comprehensive examination. The examination may not be attempted more than two times. The second examination may not be scheduled during the same semester as the first examination.

Athletic Training Graduate Program Requirements

The graduate athletic training education program is a highly competitive admissions program. Prospective graduate athletic training students must first be accepted to the Stephen F. Austin State University Graduate School before applicants will be considered for the review process for admittance to the program. Neither acceptance to the Graduate School nor meeting the graduate athletic training education program's

(GATEP) criteria guarantees acceptance into the GATEP major because of the maximum class/cohort size set at 10. If you are not accepted it is advised to remain in contact during the upcoming academic year; and please re-apply the following year or pursue the entry-level athletic training program. All downloadable documents can be found at: <http://www.kin.sfasu.edu>. Check the Website for updates. Transfer students are not accepted due to the designed block plan.

Requirements for acceptance to the SFA graduate ATEP are as follows:

Admittance to the Graduate School

Minimum of a 2.8 GPA (preferred) on all undergraduate work taken prior to receiving a bachelor's degree.

Completion with a grade of C or better in all deficiency course work, along with a copy of a syllabus* from each course, or the course must be retaken.

All deficiency courses must be completed prior to starting classes in the athletic training program as per current program practices.

Deficiencies (3): Anatomy and Physiology I and II and Analysis of Movement (Kinesiology) MUST be completed prior to submitting the application package to the athletic training program with a grade of C or better.

Completed application form.

Completed physical examination by physician/nurse practitioner, TB skin test, current tetanus immunization and verification of begun or completed hepatitis B vaccination, or copy of signed option.

Signed technical standards with endorsed approval by physician.

Copy of current first aid/professional rescuer CPR/AED certification.

Retention Requirements

Maintain a minimum GPA of 3.0 (overall), also required by the Graduate School.

Obtain a grade of B or better in all course work, or course(s) must be retaken, which may result in deference of expected graduation date.

Complete at least 300 clinical hours per academic semester totaling 1,200 hours.

Must adhere to the NATA Code of Ethics.

Ability to maintain technical standards.

A major in athletic training requires 60 semester hours with a non-thesis design. The optional third year for those seeking eligibility for Texas state licensure will complete 76 hours and presentation of the thesis.

Core:

KIN 508	Emergency Responses	1 hr.	
KIN 510	Medical Terminology	1 hr.	
KIN 512	Protective Methods in Athletic Training	3 hrs.	
KIN 521	Athletic Training Clinical I	2 hrs.	
KIN 522	Athletic Training Clinical II	2 hrs.	
KIN 530	Seminar in Athletic Training		3 hrs.
KIN 531	Therapeutic Modalities	3 hrs.	
KIN 531L	Therapeutic Modalities Laboratory	1 hr.	
KIN 532	Evaluation Techniques of the Lower Extremity	3 hrs.	
KIN 532L	Evaluation Techniques of the Lower Extremity Laboratory		1 hr.

KIN 533	Evaluation Techniques of the Upper Extremity	3 hrs.	
KIN 533L	Evaluation Techniques of the Upper Extremity Laboratory		1 hr.
KIN 534	Management Strategies in Athletic Training	3 hrs.	
KIN 536	Therapeutic Exercise	3 hrs.	
KIN 536L	Therapeutic Exercise Laboratory	1 hr.	
KIN 541	Athletic Training Clinical III	2 hrs.	
KIN 542	Athletic Training Clinical IV		2 hrs.
KIN 551:01	Athletic Training Clinical V		2 hrs.
KIN 551:02	Athletic Training Clinical	2 hrs.	
KIN 554	Introduction to Athletic Training	3 hrs.	
KIN 570	General Medical Conditions	3 hrs.	

Research Facilities

The Exercise Physiology and Biomechanics Laboratories of the Department of Kinesiology and Health Science are used extensively as a learning center and for student research. Ample opportunities are provided for students to utilize the laboratory equipment and to solve research problems. A state-of-the-art computer laboratory is available for student use. The 4,500 square foot new SFA Sports Medicine Complex is an integral part of the graduate clinical experiences.

Graduate Assistantships

The department has a number of graduate assistantships available. For information and applications for graduate assistantships, contact the coordinator of graduate studies.

Graduate Faculty

Regents Professor

Mel E. Finkenberger, Ed.D., University of Houston, Administration, Research

Professors

Ronnie G. Barra, Ed.D., Louisiana State University, Motor Learning, Sports Sociology

Stan Bobo, M.F.A., Florida State University, Dance

Sandra Cole, D.P.Ed., Indiana University, Biomechanics

Mike Moode, Ed.D., University of Southern California, Exercise Science

Elizabeth Rhodes, M.F.A., Mills College, Dance

Dawn Ella Rust, Ed.D., Oklahoma State University, Health Science

David Shows, Ph.D., Texas A&M University, Physiology of Exercise, Biomechanics

Assistant Professors

Linda Stark Bobo, Ph.D., ATC, LAT, University of Southern Mississippi, Administration and Teaching

Jay Lee, Ph.D., University of Houston, Sports Psychology, Exercise Science

Joe Schmalfeldt, Ph.D., Louisiana State University, Adapted Physical Education

Gretchen Oliver, Ph.D., ATC, LAT, Texas Woman's University, Biomechanics

Raymond Worsham, Ph.D., Texas A&M University, Intramurals

Courses in Kinesiology/Physical Education (KIN)

Unless otherwise indicated, courses are three semester hours credit.

- 502 Special Studies In Kinesiology.** A topics course. Prerequisite: 12 semester hours of kinesiology/physical education.
- 508 Emergency Care.** A two-week intensive course of bloodborne pathogen exposure and standard and advanced emergency care to meet recommended guidelines as stated by the NATA, OSHA and the NCAA. Can be repeated for a maximum of two credit hours. Prerequisite: Admittance to the athletic training major.
- 510 Medical Terminology.** (One semester hour). Online course. Medical terminology used by health professionals. Prerequisite: Admittance to Graduate School.
- 511 Organization and Administration of Health, Physical Education, Recreation and Dance Programs.** Prerequisite: 12 semester hours of kinesiology/physical education.
- 512 Protective Methods in Athletic Training.** Techniques for taping, wrapping and the application of supportive and protective equipment that is utilized in the prevention and rehabilitation of the physically active. Prerequisite: Admittance to athletic training major
- 515 Adapted Physical Education.** Prerequisite: 12 semester hours of health science or kinesiology/physical education.
- 520 Advanced Instructional Strategies in Physical Education.** Development and refinement of skills necessary to implement effective, progressive physical education programs.
- 521 Athletic Training Clinical I.** (Two semester hours). Placement of entry-level athletic training student in the university clinical setting. Basic clinical skills using hands-on approach, application of competencies and proficiencies that are introduced in the didactic setting. Prerequisite: Admittance to athletic training major; must be concurrently taking KIN 512.
- 522 Athletic Training Clinical II.** (Two credit hours). The design of this course is to place the entry-level athletic training student in a variety of work settings including but not limited to: college/university, high school, clinic/outreach. Prerequisite: Admittance to the athletic training major and KIN 521.
- 525 Curriculum Construction in Physical Education.** Prerequisite: 12 semester hours of kinesiology/physical education.
- 530 Seminar in Athletic Training.** Current trends and issues, competency review and professional development in athletic training. Prerequisite: Admittance to Athletic Training major.
- 531 Therapeutic Modalities.** Theoretical principles of acute inflammatory response, wound healing, and clinical application of therapeutic modalities as used in the treatment and care for the physically active. Prerequisite: Admittance to athletic training major; must be concurrently enrolled in KIN 531L.
- 531L Therapeutic Modalities Laboratory.** (One semester hour). Laboratory accompanying KIN 531. Students will learn psychomotor skills through the performance of clinical application of therapeutic

modalities as used for the treatment and care of the physically active. Prerequisite: Admittance to athletic training major; must be concurrently enrolled in KIN 531.

532 Evaluation of Lower Extremity. Study of the clinical evaluations involving bony and soft-tissue anatomy, signs and symptoms, and orthopaedic testing for lower extremity, pelvic and lumbar injuries and conditions commonly sustained by the physically active. Prerequisite: Admittance to athletic training major; must be concurrently enrolled in KIN 532L.

532L Evaluation Techniques of the Lower Extremity Laboratory. (One semester hour). Laboratory accompanying KIN 532. Students will learn psychomotor skills through the application process of systematic evaluation techniques for lower extremity, pelvic and lumbar injuries sustained by the physically active. Prerequisite: Admittance to athletic training major; must be concurrently enrolled in KIN 532.

533 Evaluation Techniques of the Upper Extremity. Study of clinical evaluations involving bony and soft-tissue anatomy, signs and symptoms, and orthopaedic testing for upper extremity, cervical, thoracic, head and face, and abdominal injuries and conditions commonly sustained by the physically active. Prerequisite: Admittance to athletic training major; must be concurrently enrolled in KIN 533L.

533L Evaluation Techniques of the Upper Extremity Laboratory. (One semester hour). Students will learn psychomotor skills through the application process of systematic evaluation techniques for upper extremity, cervical, thoracic, head and face, and abdominal injuries sustained by the physically active. Prerequisite: Admittance to athletic training major; must be concurrently enrolled in KIN 533.

534 Management Strategies in Athletic Training. Designed to introduce the athletic training student to management techniques, professional practice and health care administration that are encountered in athletic training. Prerequisite: Admittance to athletic training major.

536 Therapeutic Exercise. Theoretical principles and practical applications of techniques related to therapeutic exercises implemented with the non-surgical/surgical rehabilitation of the physically active. Prerequisite: Admittance to athletic training major; must be concurrently enrolled in KIN 536L.

536L Therapeutic Exercise Laboratory. (One semester hour). Laboratory accompanying KIN 536. Students will learn psychomotor skills of the theoretical principles and practical applications of techniques related to therapeutic exercises implemented with the non-surgical/surgical rehabilitation of the physically active. Prerequisite: Admittance to athletic training major; must be concurrently enrolled in KIN 536.

540 Development of Nontraditional Fitness Programs. The organization and administration of nontraditional exercise programs in the corporate or medical setting. Prerequisite: 12 semester hours of kinesiology/physical education.

- 541 Athletic Training Clinical III.** (Two semester hours). The design of this course is to place the athletic training student in a variety of work settings including, but not limited to: college/university; high school; clinic/outreach. Prerequisite: Admittance to athletic training major; KIN 522.
- 542 Athletic Training Clinical IV** (Two semester hours). The design of this course is to allow the second year training student to experience the setting of a medical office. Completion of the assignment will be fulfilled during the summer semester. Prerequisite: Admittance to athletic training major; KIN 541.
- 545 Current Trends and Issues In Physical Education and Recreation.** Prerequisite: 12 semester hours of kinesiology/physical education.
- 550 Introduction to Research in Health and Physical Education.** Prerequisite: 12 semester hours of health science or kinesiology/physical education.
- 551 (Sections :01 and :02) Athletic Training Clinical V** (Two semester hours). KIN 551:01 is designed specifically for the second year athletic training student to fulfill two seven-week rotations and to select a sport/ACI/CI assignment. Completion of KIN 551:02 will involve an assignment for the whole semester/season of the sport with the guidance of an approved clinical instructor (ACI) or clinical instructor (CI). May be repeated only once. Prerequisite: Admittance to athletic training major; KIN 542; approval of curriculum director.
- 553 Physiology of Exercise.** Prerequisite: 12 semester hours of kinesiology/physical education.
- 554 Introduction to Athletic Training.** Introduction to the profession of athletic training. Overview of common techniques and principles of recognition, evaluation, prevention, and care for the physically active. Prerequisite: Admittance to athletic training major.
- 560 Biomechanics.** Prerequisite: 12 semester hours of kinesiology/physical education.
- 562 Motor Learning.** Prerequisite: 12 semester hours of kinesiology/physical education.
- 565 The Role of Sports In Society.** Prerequisite: 12 hours of kinesiology/physical education.
- 568 Sport Psychology.** Prerequisite: 12 semester hours of kinesiology/physical education.
- 570 General Medical Conditions.** Specialized course for general medical conditions designed for the entry-level athletic training student with presentations made by various health professional specialists focusing on pathology and pharmacology. Prerequisites: Admittance to athletic training major; KIN 554.
- 574 Advanced Athletic Training.** Advanced knowledge and skills specific to a greater understanding of techniques and principles of recognition, evaluation, prevention, and care for the physically active. Prerequisite:

- Admittance to athletic training major; KIN 554.
- 575 Advanced Graduate Studies.** May be repeated under different topics.
- 577 Advanced Methods and Techniques In Athletic Coaching.** Prerequisites: Coaching experience or 12 semester hours of kinesiology/physical education.
- 581 Problems In Teaching College (Kinesiology): Internship.** Four to six hours laboratory per week. Supervised teaching, classroom visitation and consultation with graduate assistants concerning teaching, grading, advising and related matters. Graduate assistants required to take the course each of their first two semesters. May be required in addition to basic requirements for the degree. (May be Pass-Fail grading.) May be repeated for credit. Prerequisite: 18 semester hours of kinesiology/physical education.
- 585 Research and Statistical Analysis in Health and Physical Education.** Prerequisite: 12 semester hours of kinesiology/physical education.
- 589 * Thesis Research.** Research necessary to initiate thesis project. Includes preliminary drafts of thesis. Grade withheld until completion of thesis.
- 590 * Thesis Writing.** Completing of thesis and submitting final draft to departmental committee and graduate dean. Prerequisite: Kinesiology/physical education 589.

**A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis proposal has been approved.*

DEPARTMENT OF
SECONDARY EDUCATION AND
EDUCATIONAL LEADERSHIP

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Amanda Rudolph, Coordinator, Secondary Education Program-404C

Julia N. Ballenger, Coordinator, Educational Leadership Program-404H

Objectives of the Department

The Department of Secondary Education and Educational Leadership offers graduate programs and courses to broaden professional competencies in educational leadership. Specific programs are offered for the professional preparation of school teachers and school administrators. Professional certification programs are outlined in the preceding section on Professional Certificates.

Admission Requirements

To be accepted in the Department of Secondary Education and Educational Leadership as a major or a minor or for professional certificate work only, a student must meet the admission requirements of the Graduate School as outlined elsewhere in the bulletin and meet the department and program admission requirements. A major must have a background of at least 18 semester hours in approved courses in education and the approval of the graduate adviser, departmental graduate program committee, and department chair. In each case, the undergraduate background must be appropriate to the graduate program pursued.

In the case of the principal preparation degree and/or certification program and the superintendent certification program, admission will be determined at the department level upon receipt and assessment of appropriate documents from the applicant and Graduate School.

In the case of the doctoral program, admission will be determined at the department level upon receipt and assessment of appropriate documents from the applicant and Graduate School.

Doctor of Education Degree

The Doctor of Educational Leadership program is an advanced study in a cohort setting with emphasis on the educational leader as scholar-practitioner. Students interested in the doctoral program must have successfully completed a master's degree, must have completed a minimum of 18 hours of educational leadership or a related field course work, and must complete all application documents and requirements of the department and Graduate School guidelines.

Program Emphasis
I. Educational Leadership

Doctor's Degree in Educational Leadership

The doctoral program is a cohort structure for 66 hours of study that includes leadership theory and practice; educational research; ethics and philosophy; organizational, system, and human dynamics; and syntheses applied to public school leadership. Field studies and internships are integral components of the program. Students will complete a doctoral dissertation as the culminating point in the degree program.

Master of Education Degree with Emphasis in Educational Leadership

The Master of Education degree with emphasis in educational leadership is offered for students in the principal preparation program. The principal preparation program is a certification program that requires 36 semester hours of course work. This program certifies school principals. The master's degree may be completed as part of this program and requires 36 semester hours of course work. Field work activities are an integral component of the program. Students will complete a practical inquiry project or thesis as the culminating point in the degree program.

Non-degree Certification Programs

An 18 hour only standard Principal Certificate for candidates who hold a master's degree and meet additional department requirements.
The Superintendent's Certificate is offered in a non-degree program and requires 15 semester hours of course work in addition to the 36 semester hours required for principal certification for a total of 51 semester hours. (See Professional Certificate Programs).

II. Secondary Teaching

The Master of Education degree for secondary teachers will follow one of the programs outlined below.

A. Master of Education Degree for Secondary Teachers

The Master of Education degree for secondary teachers will include 36 hours of course work requirements with a minimum of 18 hours in secondary education, and one of the following: 1) a major of 18 hours in a teaching field; or 2) a combination minor and elective course work for a total of 18 hours; or 3) a department and university- approved area of specialization totaling 18 hours.

• Core Curriculum	21
521, 524, 550, 588	
Learning and Pedagogy:	6
Approved course work from SED 500 level courses	
Area of Specialization:	
(Teaching Field Background) (500-level courses)	12
and	
Second Teaching Field or	
Elective	6
Total	36 hours

B. Master of Education degree for the secondary teacher with an emphasis in Teacher Leadership and Pedagogy

The Master of Education degree for secondary teachers includes 36 hours of course work requirements in the following areas: advanced instructional leadership and pedagogy, instructional technology, research and developing the secondary teacher as a scholar-practitioner leader. The following components and courses provide an overview of the program curriculum for the experienced teacher entering the Secondary Master of Education degree program.

- Core Curriculum (12) hours
 These six courses listed in this component are required core courses for all students in the master of Secondary Education degree program with an emphasis in Teacher Leadership and Pedagogy.
SED 521, 524, 550, 588
 Advanced Instructional Technology (six to nine hours)
SED 534, 535 and/or 560
- Areas of Specialization (nine - 12 hours)
 Approved course work from SED 500 level courses or teaching field background and
- Research Sequence (Practical Inquiry I and II or Thesis Research) (six hours)
 Students will have the option of selecting either the practical inquiry and action research or thesis sequence.
SED 591, 592 (six hours) or **SED 589, 590** (six hours)

C. Master of Education for Post Baccalaureate Initial Certification Students

- Core Curriculum (18 hours)
SED 524, 534, 535, 550, 560, 588
 PBIC Curriculum (12 hours)
SED 521, 522, 523, 525
- Learning and Pedagogy (nine hours)
SED 524, 550, 588
- Research Sequence (Practical Inquiry I and II or Thesis Research) (6 hours)
SED 591, 592 (six hours) or **SED 589, 590** (six hours)
 Students will have the option of selecting either the practical inquiry and action research or thesis sequence.

Courses For Secondary Teacher Certification

Courses:

- SED 521** Learning Theory and Pedagogy (3)
- SED 522** Curriculum Instruction and Assessment (3)
- SED 523** Responding to Ethical and Legal Issues of Diversity (3)
- SED 525** Classroom Management and Professional Responsibilities (3)
- SED 533** Field-Synthesis Seminar (3)
 (does not count toward M.Ed. degree)

Plus: Student Teaching (12) or Internship

- SED 542** PBIC Student Internship (6)
 (does not count toward M.Ed. degree)

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department. For information and applications, contact the chair of the department.

Graduate Faculty

Professors

Betty J. Alford, Ph.D., University of Texas, Educational Administration

Patrick M. Jenlink, Ed.D., Oklahoma State University, Educational Administration

Associate Professor

John Leonard, Ed.D., Texas A&M University, Educational Administration

Assistant Professors

Neill Armstrong, Ed.D., Oklahoma State University, Curriculum-Instruction

Kenneth Austin, Ph.D., University of Texas at Austin, Curriculum-Instruction

Julia N. Ballenger, Ph.D., University of Texas, Educational Administration

George Carpenter, Ph.D., University of Texas at Austin, Educational Administration

J. Craig Coleman, Ed.D., Sam Houston State University, Educational Leadership

David Hollier, Ed.D., University of Houston, Curriculum-Instruction

Amanda Rudolph, Ph.D., University of Arkansas, Curriculum-Instruction

Pauline Sampson, Ph.D., Iowa State University, Educational Leadership

N. Lee Stewart, Ed.D., Baylor University, Educational Leadership

H. Diane Trautman, Ed.D., Sam Houston State University, Educational Leadership

Visiting Professor

Jarod Lambert, M.Ed., University of Houston, Curriculum-Instruction

Leadership Specialist

Michael Hopson, Ph.D., University of North Texas, Educational Administration

Lecturer

Paulette D. Wright, M.Ed., Sam Houston State University, Curriculum-Instruction

Courses in Secondary Education (SED)

Unless otherwise indicated, courses are three semester hours credit.

- 514 Investigations in School Subjects.** Research and current literature on the teaching of school subjects.
- 521 Learning Theory and Pedagogy.** A survey of major learning and developmental theories and practices related to the instructional process, structures and the learner with emphasis on constructivism.
- 522 Curriculum, Instruction and Assessment.** Emphasis on the application of learner-centered principles for designing and implementing developmentally appropriate instruction and assessment. Analysis of state and national standards.
- 523 Responding to Ethical and Legal Issues of Diversity.** A focus on understanding and responding to diversity (i.e. cultural, learning styles, special needs, linguistic, socioeconomic) in the classroom and community. Ethical and legal issues related to promoting equity will be explored. Emphasis given to information literacy and content reading.

- 524 The Secondary Teacher as Constructivist Leader.** An examination of the philosophies, theories and practices that emphasize teaching as leading, constructivist and democratic leadership, and provide an ecological perspective on systemic change and the development of professional learning communities.
- 525 Classroom Management and Professional Responsibilities.** Emphasis on discipline theory, ethical responsibilities and legal issues involved in classroom management. Focus on understanding teacher roles, responsibilities, communication and professionalism.
- 526 Field-Based Professional Learning Community.** First semester. A synthesis seminar for PBIC students. The course will focus on assisting performance of PBIC students with an emphasis on professional learning and pedagogy related to the practical experience of students and real-world problems they encounter during their internship and student teaching. Prerequisite: Admission to graduate studies and PBIC program, placement as a student intern or student teacher and completion of course work preceding.
- 527 The Secondary School Student.** This course presents various aspects of adolescent growth and development that are most significant to the secondary school teacher.
- 528 The Middle School Learner.** An exploration of adolescent development and psychology for middle school math educators. Standards, research and current issues in teaching mathematics to middle school learners will be examined. Prerequisite: Admission into master's program for math educators (middle level emphasis) and approval of academic adviser.
- 530 Curriculum, Instruction and Assessment in Middle School Math.** A balanced study including theoretical and reform-based perspectives to curriculum, instruction and assessment in middle school mathematics. Alternative forms and research-based models for assessment and evaluation of mathematics teaching and of students' mathematical learning will be considered. Prerequisite: Admission into master's degree program for math educators (middle level emphasis) and approval of academic adviser.
- 532 Leadership and Mentoring.** Advanced inquiry into the philosophies, theories and practices that emphasize democratic leadership and mentoring within middle level schools and provides an ecological perspective on systemic change and the development of professional learning communities. Prerequisite: Admission into master's program for math educators (middle level emphasis) and approval of academic adviser.
- 533 Laboratory for Teachers.** Problems that confront administrators and teachers. The work conducted on a laboratory basis.
- 534 Instructional Design.** The course will emphasize the process of instructional systems design through the examination of theories of learning, design models and methodologies, and instructional strategies. An essential element of the course will be the development and application of skills and knowledge essential to the design, development and evaluation of instructional systems. Prerequisite: Admission to graduate studies and master's program, SED 560 or demonstrate equivalent knowledge and experience, and academic adviser approval.

- 535 Advanced Instructional Technology.** An investigation, application and classroom integration of advanced instructional technology skills and systems, technology leadership, planning, networking, systems design, and emergent technologies based on constructivist and cognitive psychological learning theory. Prerequisite: Admission to graduate studies and master's program, SED 560 or demonstrate equivalent knowledge and experience, and academic adviser approval.
- 542 2W PBIC Student Internship.** Emphasis on mentoring and assisted performance of the PBIC student who is employed as a teacher in a practical setting. Prerequisite: Admission to teacher education, PBIC program, graduate studies and approval for internship.
- 543 Synthesis Seminar.** Enables students to apply professional expectations for teachers as expressed through the Pedagogy and Professional Responsibilities (PPR) standards adopted by the state of Texas. The course synthesizes the PPR standards and research-based practices for educators. SED 533 is graded on a pass-fail basis.
- 545 PBIC Internship-Distant.** Emphasis on mentoring and assisted performance of the PBIC student who is employed as a teacher in a practical setting. Fall and spring only. May be repeated one time. \$750 fee required.
- 550 Research In Education.** An introduction to the nature, meaning and critical evaluation of educational research; research design, and research writing.
- 560 Technology and Teaching.** This course is designed to help classroom teachers to broaden their technology skills and integrate technology into their teaching. Research, theory and principles of instruction will be explored in the context of the classroom teaching experience emphasizing the importance of technology integration into teaching.
- 561 Classroom Management.** This is an action-based course designed to explore various classroom management models and approaches. An emphasis will be placed on effective management models and approaches in various settings: rural and urban schools; public and private schools; charter and alternative schools.
- 575 Advanced Graduate Studies.** Directed study based on the type of studies needed for administration/supervision program pursued. May be repeated under different topics.
- 576 Advanced Graduate Studies.** Same as 575 but in a different topic.
- 578 Seminar.** May be repeated.
- 580 Assessment and Evaluation.** Designed to help teachers improve assessment and evaluation literacy. Emphasis on various approaches to assessment including performance tasks, observations and portfolios; test construction and design; grading procedures; and, reporting practices including self-assessment, student conferences and parent conferences.
- 584 Individualization of Instruction.** Theory and practice in methods and techniques of individualizing instruction to meet the needs, interests and abilities of students.
- 588 Foundations of Education.** An overview of the historical and philosophical aspects of American education as a basis for understanding

the contemporary importance of schools in the national and community life of a multicultural society.

589* Thesis Research. Individual study of a specific problem in the field of education. The thesis may be an organized scientific contribution or a comprehensive analysis of theory and practice in a specific area. Prerequisites: Academic adviser approval and completion of all courses preceding.

590* Thesis Writing. Individual study of a specific problem in the field of education. Prerequisites: Academic adviser approval and completion of all courses preceding including SED 589.

591* Practical Inquiry and Action Research I. Individual study of a problem specific to practice in the educational setting where the student is actively engaged. The student's inquiry is related to the study of educational leadership in the K-12 setting with a focus on the improvement of practice. Prerequisites: Academic adviser approval and completion of all courses preceding.

592* Practical Inquiry and Action Research II. Development, writing and presentation of the inquiry from Practical Inquiry and Action Research. Prerequisites: Academic adviser approval and completion of all courses preceding including SED 591.

** A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis proposal has been approved.*

** A student must register for 591 and/or 592 each semester or summer session until the inquiry project is completed. However, a student may not register the first time for 591 until the student has met the departmental prerequisites.*

Courses in School Administration (AED)

Unless otherwise indicated, courses are three semester hours credit.

501 Introduction to Educational Leadership. Study and application of the historical, research, philosophical, theoretical, demographic forces, and required strategic planning skills to provide learner-centered leadership. A significant number of hours of field work are required. Prerequisite: Admission to the principal preparation program.

511 The Superintendency. The preparation and qualifications of the successful school administrator and the duties, responsibilities and problems of the school superintendency. A significant number of hours of field work are required. Prerequisites: Mid-management or principal certification and admission to superintendency program.

513 Administration of Special Services. Organization and administration of counseling, career-technical education, special education, reading and other programs in the public school. A significant number of hours of field work are required. Prerequisite: Admission to the principal preparation-program.

516 The School Principalship K-12. The preparation and qualification of the successful school principal, including duties, responsibilities, and problems. A significant number of hours of field work are required. Prerequisite: Admission to the principal preparation program.

- 517 The Principal as an Instructional Leader.** A focus on developing knowledge, dispositions and skills for creating and sustaining a learner-centered school with an emphasis on the professional learning community. The improvement of curriculum and instruction in the school. A significant number of hours of field work are required. Prerequisite: Admission to the principal preparation program.
- 519 Supervision of the Instructional Program.** The survey of supervision, assessment and professional growth and development. Theory and practice of instructional supervision K-12. Specified sections of this course may include Professional Development and Appraisal System (PDAS) certification. A significant number of hours of field work are required. Prerequisite: Admission to the principal preparation program.
- 540 Research for the Educational Leader.** Disciplined inquiry into basic, applied and evaluation research methods as it relates to the role of research in educational leadership. Emphasis will be placed on connecting theory, research and practice in applied research within administrative field settings. A focus will be given to the practice and use of research by the educational leader to effect her/his administration and operation of the school. A significant number of hours of mentored administrative research field work is required. Prerequisite: Admission to the principal preparation program.
- 547 Public School Financing and Business Administration.** The principles of school finance, budgeting and accounting and the related procedures and problems of local administration. A significant number of hours of field work are required. Prerequisites: Mid-management or principal certification and admission to superintendency program.
- 549 Foundations of Curriculum Planning.** A study of the sociological and psychological forces that affect curriculum planning. The utilization of these forces in establishing goals and priorities for grades K-12. A significant number of hours of field work are required. Prerequisite: Admission to the principal preparation program.
- 551 School Plant Administration.** Operation, maintenance, utilization and management of physical plant, property records, inventory control, and school building programs. A significant number of hours of field work are required. Prerequisites: Mid-management or principal certification and admission to superintendency program.
- 552 School-Community Relationship.** Cooperative development of school-community relationships and mutual understanding of the school's purposes, functions, achievements, and needs. A significant number of hours of field work are required. Prerequisite: Admission to the principal preparation program.
- 553 School Personnel Administration.** Study is made of the administrator's role in recruiting, classification, assignment, retention, and evaluation of school personnel. A significant number of hours of field work are required. Prerequisite: Admission to the principal preparation program.
- 556 Ethics and Praxis in Educational Settings.** An investigation of

the philosophical and theoretical foundations of ethics as applied to educational settings. The ethical practice of educational leadership. A significant number of hours of field work are required. Prerequisite: Admission to the principal preparation program.

565 Public School Law. The law in relation to public school operation. A significant number of hours of field work are required. Prerequisite: Admission to the principal preparation program.

589* Thesis Research. Individual study of a specific problem in the field of education. The thesis may be an organized scientific contribution or a comprehensive analysis of theory and practice in a specific area. Prerequisites: Academic adviser approval and completion of all courses preceding.

590* Thesis Writing. Individual study of a specific problem in the field of educational administration and leadership. Prerequisites: Approval of academic adviser and completion of all course work preceding including AED 589.

591 Practical Inquiry and Action Research I. Individual study of a problem specific to practice in the educational setting where the student is actively engaged. The student's inquiry is related to the study of educational leadership in the K-12 setting with a focus on the improvement of practice. Prerequisites: Academic adviser approval and completion of all courses preceding.

592 Practical Inquiry and Action Research II. Development, writing and presentation of the inquiry from Practical Inquiry and Action Research. Prerequisites: Academic adviser approval and completion of all courses preceding including AED 591.

594 Superintendency Seminar. The individual and collective study of the superintendency from both a theoretical and field-based perspective. The course presents a series of culminating scenarios that connects research-based leadership practices with recognized proficiencies of leadership achievement. A significant number of hours of field work are required. Prerequisites: Mid-management or principal certification and admission to superintendency program.

599 Synthesis in Educational Leadership. A synthesis course designed to give students opportunities to expand the depth of their understanding of the roles and responsibilities of the principal as set forth in the SBEC competencies. Students will demonstrate their understanding of principal leadership by completing intern activities that demonstrate evidence of mastery of the competencies. Preparation for TExES also is provided.

*** A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis proposal has been approved.*

601 Connecting Leadership Theory and Practice. A consideration of knowledge, skills and understandings required for visionary leadership.

602 Inquiring into the Foundations of Ethics and Philosophy of School Leaders. A survey of major ethical and philosophical influences

- of importance for educational leadership.
- 603 Exploring Contemporary and Emerging Paradigms of Educational Research.** An introduction to issues in educational research related to leadership.
- 604 Examining the Dynamics of Organizational and Human Interaction within Educational Systems.** An emphasis on research and the dynamic nature of school organizations as human activity systems.
- 611 Bringing Critical Voice to the Design, Analysis and Implementation of Educational Policy.** Identification and analysis of the policy and the political influences that shape the direction of education.
- 612 Conceptualizing Scholar-Practitioner Models of Leadership.** An advanced study of leadership theory and practice through analysis of cross-disciplinary research and literature.
- 613 Operationalizing the Dynamics of Change in Educational Systems.** Research and study of the design, implementation, management, and evaluation of the change process.
- 621 Examining Human Inquiry Systems.** A study in comparing and contrasting philosophies and logic systems that inform human inquiry and educational research.
- 623 Designing Research within Educational Settings.** A study of qualitative and quantitative design logic inclusive of problem or question clarification, data gathering, and analysis techniques to support the dissertation.
- 631 Learner Centered Curriculum and Instruction.** A study of curriculum development, implementation and assessment with state, national and international implications.
- 632 Legal Regulatory Issues in Education.** A study of the evolution and current status of the law regulating educational institutions.
- 633 Investigating Cultural and Societal Patterns.** A study of local, state, national, and global conditions affecting schools.
- 634 Finance Resource Development.** A study of school finance, including budgeting and accounting, encompassing historical and current trends an legal issues.
- 650 Synthesis Seminar I.** Integrating, synthesizing and evaluating the major concepts encountered in the courses preceding.
- 651 Synthesis Seminar II.** Advanced seminar. See preceding description.
- 675 Independent Study.** Directed study based on studies needed for the doctoral program. May be repeated under different topics.
- 678 Seminar.** May be repeated.
- 681 Internship.** Field experiences that link theory, research and practice. Will be repeated once.
- 682 Developing the Dissertation Research Proposal.** The design, development and implementation of the dissertation research.
- 699 Dissertation.** Completion of individual dissertation. May be repeated.

THE COLLEGE OF
*F*INE ARTS

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JILL CARRINGTON, GRADUATE PROGRAM COORDINATOR

Art 101

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Objectives of the Department

The graduate program has been designed to provide advanced studies leading to the Master of Arts and Master of Fine Arts degrees. Individual programs are arranged to meet the needs of the students and prepare them for careers in art.

Admission Requirements

General admission requirements to the M.A. and M.F.A. degree programs in art are shown elsewhere in this bulletin.

Applicants also must support their request for admission to the M.F.A. program by submitting three recommendations and a portfolio to the School of Art.

The Master of Arts Degree Programs

The M.A. degree in art is offered with two options. The student may choose to take 36 semester hours of course work and prepare a final project in the form of an exhibition, portfolio, or other activity with the approval of the graduate committee. As a second option, a student may choose to complete 30 semester hours, with 24 hours of course work and six hours of thesis research and writing.

A comprehensive written examination in art history, aesthetic philosophy and criticism is required for all programs. M.F.A. candidates also are required to pass an oral examination covering the area of research and pass the thesis exhibition defense.

The Master of Fine Arts Degree Program

The granting of the M.F.A. degree is based upon achievement of professional competence and mastery in at least one area of studio art. Mastery implies a high level of knowledge and skill in the theoretical, historical and technical aspects of art production. Such mastery is the basis of quality in higher education and in the general culture, and from this base careers in either category should be accessible.

Studio Requirement

At least 50 percent of all studio requirements for both the M.A. and M.F.A. must be completed in Art 530 or Art 531. These courses are not available in summer sessions.

Graduate Minors in Art

The art minor will consist of nine - 15 semester hours. The minor program will be arranged to satisfy the student's individual needs and/or complement the major area of interest. A portion of the comprehensive examination will be devoted to the minor area as directed by the student's advisory committee.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the school. For information and applications, contact the director of the school.

Exhibition of Student Art

The School of Art reserves the privilege of retaining selected student works for exhibition for a period of 12 months after the work is submitted for grading.

Graduate Faculty

Professors

Peter Andrew, M.F.A., University of Massachusetts, Illustration, Painting
 William A. Arscott, M.F.A., Michigan State University, Design, Painting,
 Art History, Sculpture
 Piero Fenci, M.F.A., Alfred University, Ceramics
 Gary Q. Frields, M.F.A., Stephen F. Austin State University, Drawing, Sculpture
 Charles D. Jones, M.F.A., University of Americas, Graphic Art,
 Art History, Drawing

Associate Professors

Jill Carrington, Ph.D., Syracuse University, Art History
 Robert P. Kinsell, M.F.A., University of Wisconsin-Madison, Drawing, Painting
 David A. Lewis, M.A., Ph.D., Indiana University-Bloomington, Art History

Assistant Professors

Bradley Bailey, Ph.D., Case Western Reserve University, Art History
 Amy George, M.F.A., Clemson University, Digital Media, Photography
 Maki Hajikano, M.F.A., University of Oregon, Sculpture
 Teresa Kirchner, M.F.A., Indiana University-Bloomington, Drawing, Painting
 Natalya Pinchak, M.F.A., University of Illinois, Jewelry/Art Metal
 Anita Powell, M.F.A., Southern Illinois University, Art Education

Instructor

Gary Parker, M.F.A., Stephen F. Austin State University, Painting, Drawing

Graduate Courses in Art (ART)

Unless otherwise indicated, courses are three semester hours credit.

- 500 Advanced Life Drawing.** Six hours lab, six hours independent study per week. Gesture, anatomy, composition. Levels A, B, C, D. Cross listed with Art 400. Incidental fee \$41.
- 501 Modern Philosophies of Art.** Recent and contemporary trends in art creation, appreciation and teaching. Lectures, outside reading, class discussion. Prerequisite: Undergraduate major or minor in art. Incidental fee \$17.
- 502 Abstract Expressionism to Post Modern Art.** Investigation of developments in the visual arts and art theory from 1945 to present. Cross-listed with Art 481. Graduate students will be expected to complete more rigorous assignments than undergraduates enrolled in Art 481. Incidental fee \$19.
- 510 Graduate Painting.** Graduate-level painting problems. Six hours lab, six hours independent study per week. Levels A, B, C, D. Cross listed with Art 410. Incidental fee \$57.
- 511 Graduate Expressive Drawing.** Six hours lab, six hours independent study per week. This course will stress the production of expressive drawings. This includes the identification and resolution of problems of artistic expression. Levels A, B, C, D. Cross listed with Art 401. Incidental fee \$41.
- 512 Graduate Film Making.** Six hours lab, six hours independent study per week. Film making as an art media. May involve writing, directing, cinematography, editing, lighting, sound production. Levels A, B, C, D. Cross listed with Art 412. Incidental fee \$51.
- 517 Graduate Photography.** Six hours lab, six hours independent study per week. Graduate-level photography with emphasis upon fine arts applications. Levels A, B, C, D. Cross listed with Art 417. Incidental fee \$83.
- 520 Graduate Printmaking.** Six hours lab, six hours independent study per week. Advanced printmaking stresses technical, expressive and aesthetic aspects of printmaking as an art form. Levels A, B, C, D. Cross listed with Art 420. Incidental fee \$34.
- 530 Graduate Studio Techniques.** Three or six semester hours. Practical application in-depth for development of individual style. May be repeated for credit. Prerequisite: Graduate standing in art. Fall and spring only. Incidental fee \$35.
- 531 Graduate Studio Media.** Three or six semester hours. Studies in the use of art materials through practical studio application. May be repeated for credit. Prerequisite: Graduate standing in art. Fall and spring only. Incidental fee \$34.
- 533 Graduate Sculpture.** Six hours lab, six hours independent study per week. Advanced sculpture stresses technical, expressive and aesthetic aspects of sculpture as an art form. Levels A, B, C, D. Cross listed with Art 430. Incidental fee \$26.
- 540 Graduate Metal and Jewelry.** Six hours lab, six hours independent study per week. Advanced metal and jewelry stresses technical,

- expressive and aesthetic aspects of jewelry as an art form. Levels A, B, C, D. Cross listed with Art 440. Incidental fee \$104.
- 550 Graduate Ceramics.** Six hours lab, six hours independent study per week. Advanced ceramics stresses technical, expressive and aesthetic aspects of ceramics as an art form. Levels A, B, C, D. Cross listed with Art 450. Incidental fee \$157.
- 561 Graduate Computer Art.** Six hours lab, six hours independent study per week. Advanced computer art stresses technical, expressive and aesthetic aspects of digital imaging as an art form. Levels A, B, C, D. Cross listed with Art 401. Incidental fee \$78.
- 570 Graduate Advertising Design.** Six hours lab, six hours independent study per week. Techniques for advertising art. Graduate levels A, B, C. Prerequisites: Graduate standing and approval of instructor. Cross listed with Art 470. Incidental fee \$50.
- 571 Graduate Typography.** Three semester hours, six hours lab, six hours independent study per week. Studio class for the study, practice and theory of designing with type in advertising and graphic design. Cross listed with Art 471. Incidental fee \$45.
- 572 Graduate Illustration.** Three semester hours, six hours lab, six hours independent study per week. Studio course for the practice of illustration methods, media and techniques. Levels A,B,C. Cross listed with Art 472. Incidental fee \$60.
- 575 Advanced Graduate Studies.** Individual problems related to art history or studio art. May be repeated under different topics. Incidental fee \$34.
- 576 Advanced Graduate Studies.** Same as Art 575 but in a different topic. Incidental fee \$34.
- 579 AD Design III.** AAF Campaign. Three semester hours, six hours lab, six hours independent study per week. Creative advertising campaign research, strategy and execution for the American Advertising Federation National Student Advertising Competition. Levels A,B,C. Permission of instructor. Cross listed with Art 479. Incidental fee \$75.
- 580 Modern Art.** An examination of modern art from post-impressionism to Pop Art. Cross listed with Art 480. Graduate students will be expected to complete more rigorous assignments than undergraduates enrolled in Art 480. Incidental fee \$29.
- 581 Problems In Teaching College Art.** Required for graduate assistants. Prerequisite: 24 hours of art.
- 582 Studies in the History of Photography, the Print and Related Media.** Investigation of specific topics in photography, the print and related media, including digital imagery, film, video and multimedia in the fine arts. Levels A, B, C. Cross-listed with Art 482. Graduate students will be expected to complete more rigorous assignments than undergraduates enrolled in Art 482. Incidental fee \$29.
- 583 Greek and Roman Art.** Ancient Greek and Roman art from the Geometric period to Constantine. Graduate students will be expected to complete additional work and will be held to a higher standard than undergraduates. Cross listed with Art 483. Incidental fee \$19.
- 584 Nineteenth Century European Art.** European Art from 1750

to 1900, Neoclassicism, Romanticism, Realism, and Impressionism. Graduate students will be expected to write extra papers and more rigorous assignments. Cross listed with Art 484. Incidental fee \$19.

585 Renaissance Art. European art from 1300 to 1600. Graduate students will be expected to complete additional work and will be held to a higher standard than undergraduates. Cross listed with Art 485. Incidental fee \$19.

586 Baroque Art. European art from 1600 to 1750. Graduate students will be expected to complete additional work and will be held to a higher standard than undergraduates. Cross listed with Art 486. Incidental fee \$19.

587 American Art. Art of the United States from the colonial period to the present. Emphasis on the 20th century. Graduate students will be expected to write extra papers and more rigorous assignments. Cross listed with Art 487. Incidental fee \$29.

588 Mexican Art. Development of art in Mexico and related Latin American countries. Graduate students will be expected to write extra papers and more rigorous assignments. Cross listed with Art 488. Incidental fee \$19.

589* Thesis Research. The application of research necessary to initiate and complete the M.A. thesis. Prerequisite: 12 semester hours of graduate courses in art.

590* Thesis Writing. Organization and writing of the thesis.

591* M.F.A. Exhibition. Six semester hours. Organization, development, exhibition, and oral defense of a creative project. Prerequisite: 45 semester hours of graduate courses in art.

597 Graduate Selected Topics. Subject content not ordinarily included in the course inventory but of topical interest. May be repeated in different topics, A,B,C. Cross listed with Art 497. When enrolled with Art 497 courses, graduates will be expected to complete greater numbers and more difficult assignments. Incidental fee \$34.

599 Foundations of Art Education. Psychological and philosophical concepts of art education. Prerequisite: Teacher certificate in art or elementary education with art minor.

SCHOOL OF MUSIC

RONALD E. ANDERSON, DIRECTOR AND
GRADUATE ADVISER

Music 150
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randerson@sfasu.edu
www.music.sfasu.edu

Graduate programs in music lead to the Master of Music, the Master of Arts in Music Education, and the Master of Arts in Music degrees. They are intended to further the development of professional competency, critical thinking and intellectual maturity. Two tracks are available under the Master of Music program: Master of Music in Performance and Master of Music in Conducting. Three tracks are available under the Master of Arts in Music Education program: an instrumental track, vocal/choral track, and an elementary/general music track. The Master of Music in performance and conducting are 36-hour programs. The Master of Arts in Music Education and the Master of Arts in Music provide students the options of completing either 30 semester hours and a master's thesis or completing 36 semester hours without a thesis.

As a help to students who cannot attend class on the SFA campus regularly, many of the required courses are now available over the Internet. This includes all of the courses in the general music "core" and many courses in the music education sequence. One program, the elementary/general music track of the Master of Arts in Music Education program, can be completed entirely over the Internet. For more information on this track, please consult the following Web site: <http://www.sfasu.edu/distance/music/>.

Admission Requirements

To be admitted to the graduate degree program students must satisfy general admission requirements shown elsewhere in this bulletin. Students also need to:

1. Schedule the graduate music advisory examinations before degree work is done, or during the first semester of study. The examinations are usually given at the start of each term. Students involved in the distance education program may take them online or at a testing center near their residence. The exams cover music history, music theory and (in the case of students concentrating on applied studies) applied performance.
2. Complete an admission interview with the director of the School of Music. The director will provide advice on a tentative degree plan, on courses to be taken during the first semester, and on the results of the advisory exams (if completed).

Specific course requirements for each degree program are given below. Additional information and check sheets for each are available at http://www.music.sfasu.edu/prospective_students/grad_degrees.html.

Three Master's Degree Programs

(1) Master of Music Degree Programs

The Master of Music programs in performance and conducting are designed to provide intense training for students interested in attaining professional-level skills and background. Students entering these programs should have substantial undergraduate training in performing and/or conducting.

(2) Master of Arts in Music Education

Students may follow one of three tracks under the Master of Arts in Music Education degree program: 1) instrumental, 2) vocal/choral or 3) elementary/general music. The programs are designed to provide teachers with advanced skills and knowledge to succeed in the public schools or college teaching. Students entering these tracks should have undergraduate degrees in music education.

(3) Master of Arts in Music

The Master of Arts in Music degree program is designed for students who wish to further their education broadly in the discipline of music. It provides the most flexibility in degree requirements, allowing students to choose a specialization. It also allows for a 12-hour minor area if desired.

Master's Degree Available through the Internet

One-half of the graduate music courses required for the Master of the Arts Degree in Music Education and the Master of Music Degrees in Performance and Conducting are now available via the Internet. In addition, one complete master's program (Master of Arts in Music Education—elementary/general music track) is entirely Web-based and may be completed entirely via the Internet. This program is designed for individuals who wish to continue their study of elementary/general music methods and pedagogical theory. It is intended for practicing music specialists in the public-private schools and is offered as a 30-hour program with a thesis or a 36-hour program without a thesis. As an innovator in distance education, SFA offers the only complete master's degree program in music education available through the Internet in Texas. For more information, access <http://www.sfasu.edu/distance/music/>.

Course Requirements

In addition to meeting general degree requirements shown elsewhere in this bulletin, a music major must complete the following school requirements:

Music Core – Required of all degree programs

Theory: Advanced Analysis - MTC 561 (2) ; two hours from Stylistic Analysis - MTC 526, Theory Pedagogy - MTC 562, or Scoring and Arranging - MTC 563 (if not taken as an undergraduate).

Music History/Literature: Music Bibliography - MHL 531 (3) ; four hours from Music of the Baroque Era - MHL 521 (2), Music of the Classic Era - MHL 522 (2), Music of the Romantic Era - MHL 523 (2), Music of the Twentieth Century - MHL 524 (2), and Music in America - MHL 525 (2).

Additional Requirements for Each Individual Degree Program or Track

Master of Music in Performance (36-hour program)

Performance Specialization: Applied Study - MUP 529 (11-12); Repertoire - MUP 558 (3); Pedagogy - MUP 464 or 564 (3); Ensemble - MUP 533, 534 or 535 (2); Recital - MUP 595 (twice); Music Electives (5-6).

Master of Music in Performance/Accompanying (36-hour program)

Accompanying Specialization: Applied Piano - MUP 519 (4); Applied Accompanying - MUP 519 (8); Chamber Music - MUP 539 (1); Harpsichord - MUP 509 (1); Literature - MUP 561 (2) and MUP 562 (2); Accompanying - MUS 572 (2); and Recital - MUP 595 (one vocal and one instrumental); Music Electives (5) from MUP 509 or 519, 539, MUP 456 or 457, or MUS 575. For language and diction requirements, contact the School of Music.

Master of Music in Conducting (36-hour program)

Conducting Specialization: Applied Conducting - MUP 529 (12); Literature - MUS 572 or MUP 503 (3) and MUP 578 (3); Ensemble or Applied - MUP 533, 534, 535, 509, or 519 (2); Recital - MUP 595; Music Electives (5).

Master of Arts in Music Education, Instrumental Track (30 hours with thesis, 36 hours without thesis)

Music Education Specialization: Psychology of Music - MUE 541 (3); Research - MUE 540 (3); six hours from MUE 503, 504 and MUS 572 (Instrumental Rehearsal Techniques); Ensemble/Applied - MUP 533, 534, 535, 509, 519 (2); Options: Thesis (6) or Music Electives (11).

Master of Arts in Music Education, Vocal Track (30 hours with thesis, 36 hours without thesis)

Music Education Specialization: Psychology of Music - MUE 541 (3); Research - MUE 540 (3); Literature - MHL 474 (3); Rehearsal Techniques - MUS 572 (3); Ensemble/Applied - MUP 533, 534, 535, 509, 519 (2); Options: Thesis (6) or Music Electives (11).

Master of Arts in Music Education, Elementary/General Music Track (30 hours with thesis, 36 hours without thesis)

Music Education Specialization: Research - MUE 540 (3); Psychology of Music - MUE 541 (3); Foundations - MUE 542 (3); Trends - MUE 543 (3); History - One additional course from Core list above (2); Options: Thesis (6) or Music Electives - from MUE 544, 545, 546, 547, Summer Workshops (11).

Master of Arts in Music (30 hours with thesis, 36 hours without thesis)

Music Emphasis: 12 hours from selected courses in Music Education and Pedagogy, Conducting, Literature, Theory, or Performance; Ensemble/Applied - MUP 533, 534, 535, 509, 519 (2); Options: Thesis (6) or Music Electives (11).

Comprehensive Examination

A comprehensive examination must be taken at least one semester before the candidate intends to graduate. Although this examination is written, deficiencies may be satisfactorily removed by whatever action the faculty committee and school director deem necessary (e.g., research project, oral examination).

Individual Study Courses

A maximum of six semester hours of individual study courses (MUS 575 or 576) may be applied toward the degree without special permission from the director and the dean of the College of Fine Arts. Note: individual studies courses other than applied music and composition must be approved by the advisory committee and school director prior to registration. Petitions may be obtained in the school office.

Graduate Assistantships

Graduate assistantships are awarded each year in the school to qualified students. Applications should be received by March 15. For information and applications, contact the director of the School of Music or the Website of the SFA Graduate School: www.sfasu.edu/graduate/.

Graduate Faculty

Professors

Ronald E. Anderson, Ph.D., University of Iowa, Conducting, Music History
 Richard A. Berry, D.M.A., Conservatory of Music, University of Missouri, Voice,
 Pedagogy and Literature
 Charles Gavin, D.M.A., University of Iowa, Horn
 John W. Goodall, D.M.A., University of North Texas, Double Reeds
 Tim R. King, D.M.A., University of Illinois, Choir, Conducting,
 and Music Education
 Andrew Parr, D.M.A., Yale University, Piano

Associate Professors

Deborah A. Dalton, D.M.A., University of Texas, Voice, Opera
 Thomas M. Houston, D.M., Florida State University, Literature
 Max L. Morley, D.M.A., University of North Texas, Literature
 Mark E. Turner, D.M.A., University of Houston

Assistant Professors

Christopher Ayer, D.M.A., University of Cincinnati Conservatory, Clarinet
 Jennifer Dalmás, D.M.A., Florida State University, Violin, Viola
 Michael Dean, Ph.D., Texas Tech University, Choir
 Scott Harris, D.M.A., University of Oklahoma, Percussion
 Stephen Lias, D.M.A., Louisiana State University, Theory, Composition
 Kirsten Nelson, D.M.A., University of Georgia, Bassoon, Theory
 Ronald Petti, D.M.A., Florida State University, Accompanying
 Debra Scott, M.M. University of Northern Colorado, Trombone
 Brian Utley, D.M.A., Louisiana State University, Theory, Saxophone
 Gary T. Wurtz, D.M.A., University of North Texas, Trumpet

Instructors

Debbie Berry, M.A., Stephen F. Austin State University, Voice
 Nita Hudson, M.M., Stephen F. Austin State University, Voice, Opera
 Scott LaGraff, M.M., State University of New York at Binghamton, Voice

Director of Bands

Fred J. Allen, M.M., Texas Tech University, Band, Conducting,
 and Music Education

Graduate Course in Music

Unless otherwise indicated, courses are three semester hours credit.

MHL (Music History and Literature)

- 474 Studies In Music Literature.** One to three semester hours. Specialized studies of a particular musical period, genre or form. May be repeated as topics change.
- 521 Music of the Baroque Era.** Two semester hours, two hours lecture per week. An analysis of the theoretical and historical aspects of the music and musicians from c. 1600 to 1750.
- 522 Music of the Classic Era.** Two semester hours, two hours lecture per week. An analysis of the theoretical and historical aspects of the music and musicians from c. 1750 to 1810.
- 523 Music of the Romantic Era.** Two semester hours, two hours lecture per week. An analysis of the theoretical and historical aspects of music and musicians from Beethoven's late works and the music of Schubert, Mahler, Bruckner, and Richard Strauss.
- 524 Music of the Twentieth Century.** Two semester hours, two hours lecture per week. An analysis of the theoretical and historical aspects of music and musicians from Debussy to the present.
- 525 Music In America.** Two semester hours, two hours lecture per week. A survey of music and musicians in the United States from colonial times to the present.
- 531 Music Bibliography.** Study of library collections of music; online searches; major historical and analytical writings.

MTC (Music Theory and Composition)

- 463 Scoring and Arranging.** Scoring for choral and instrumental groups.
- 526 Stylistic Analysis.** Two semester hours credit, two hours lecture per week. Exploration of musical style as it relates to time periods, geographic locations and specific composers. Special emphasis is placed on the synthesis of analysis and historical context leading to a more complete understanding of musical influence. A scholarly document is required. Prerequisite: MTC 561.
- 527 Composition.** Three semester hours credit, one hour private instruction per week. Applied instruction in musical composition. May be repeated for credit. Prerequisite: Permission of instructor.
- 561 Advanced Analysis.** Two semester hours credit, two hours lecture per week. A comprehensive and rigorous application of a wide variety of analytical techniques to music from all periods and styles. Will include Schenkerian analysis, atonal set theory, serial analysis, basic style analysis and other analytical techniques. A scholarly paper analyzing a specific work is required.
- 562 Theory Pedagogy.** Two semester hours credit, two hours lecture per week. Classroom strategies and techniques for teaching undergraduate music theory. Will include a survey of the available textbooks, discussion of the ordering of theory topics, pedagogical ideas for assisting students with specific difficulties and practical experience with tutoring and in-

class teaching. Prerequisite: MTC 561.

- 563 Scoring and Arranging.** 2 semester hours credit, 2 hours lecture per week. Development of orchestration and arranging skills for a variety of ensembles. Assignments cover vocal works, chamber ensembles, jazz notation, big band, wind ensemble and orchestra. Prerequisite: MTC 561.

MUE (Music Education)

- 503 Band Literature.** Study and analysis of concert band literature for all levels of public school.
- 504 Instrumental Techniques.** Study of the literature and pedagogical materials for string, wind and percussion instruments as related to school music teachers.
- 540 Music Research Seminar.** Introduction to research in music education. Emphasis placed on analysis of empirical research modalities and procedures for testing and measuring musical behaviors. The thrust will be to understand statistical results and their implications for improving classroom instruction.
- 541 Psychology of Music.** Introduction to principles of music psychology. Emphasis placed on behavioral manifestations of music through the study of cognitive processing. Current trends and seminal research and thought in music psychology will be examined.
- 542 Foundations of Music Education.** Introduction to the history of music education, musical aesthetics and philosophy of music education.
- 543 Current Trends in Music Education.** A critical analysis of current pedagogical trends in music education. Emphasis will be placed on evaluation of various music education curricula.
- 544 Reflective Practitioner.** Intended for individuals who are currently employed as music specialists. Emphasis is placed on application of current pedagogical theory and learning theory through critical thought and reflective practice. Prerequisite: MUE 543.
- 545 Music in Early Childhood.** Review and application of research, methods and materials for teaching music to preschool children. Emphasis is placed on examining developmentally appropriate and child-centered practices applied to music.
- 546 Technology in the Music Classroom.** Course provides students with skills to successfully implement and utilize current music technology in the classroom. Emphasis will be placed on hands-on experiences with technology to meet student's individual needs.
- 547 Professional/Clinical Project.** Original, professional, or clinical/classroom demonstration project resulting in a written paper suitable for

presentation or publication at a professional meeting or in a professional journal. May be repeated for credit.

MUP (Music Performance)

- 456 Choral Conducting Seminar.** Advanced choral conducting theories and techniques with emphasis on score study.
- 457 Instrumental Conducting.** Advanced conducting theories and techniques for instrumental groups.
- 464 Performance Theory and Materials I.** Practicum in the materials and principles of solo performance for each applied area.
- 465 Performance Theory and Materials II.** Two semester hours, two hours lecture per week. Practicum in the materials and principles of solo performance for each applied area. Prerequisite: MUP 464.
- 509 Applied Instruction.** One semester hour credit, half-hour instruction per week. For secondary or minor instrument. Placement audition required. Instruction in piano, organ, harpsichord, voice, flute, oboe, clarinet, saxophone, bassoon, trumpet, horn, euphonium, trombone, tuba, percussion, violin, viola, cello, contrabass. May be repeated for credit. May not be taken for audit.
- 519 Applied Instruction.** Two semester hours credit, one hour lesson per week plus studio class weekly. Placement audition required. Instruction in piano, organ, harpsichord, voice, flute, oboe, clarinet, saxophone, bassoon, trumpet, horn, euphonium, trombone, tuba, percussion, violin, viola, cello, contrabass. May be repeated for credit. May not be taken for audit.
- 529 Applied Instruction.** Three semester hours credit, one-hour lesson per week plus studio class weekly. Placement audition required. Instruction in piano, organ, harpsichord, voice, flute, oboe, clarinet, saxophone, bassoon, trumpet, horn, euphonium, trombone, tuba, percussion, violin, viola, cello, contrabass. May be repeated for credit. May not be taken for audit.
- 532 Opera Workshop.** One semester hour credit, three hours rehearsal per week. Open to the general student by audition. May be repeated for credit.
- 533 A Cappella Choir.** One semester hour credit, four hours rehearsal per week. Membership open by audition. May be repeated for credit.
- 534 Orchestra.** One semester hour credit, four hours rehearsal per week. Membership open by audition. May be repeated for credit.
- 535 Symphonic Band.** One semester hour credit, four hours rehearsal per week. Membership open by audition. May be repeated for credit.
- 537 Lab Band.** One semester hour credit, three hours rehearsal per week. Membership open by audition. May be repeated for credit.
- 539 Chamber Music Practicum.** One semester hour credit. Practicum in small ensemble performance. String, brass, woodwind, percussion, keyboard, vocal, and mixed ensembles including brass choir, Madrigals, Trombone Choir, etc. May be repeated for credit.

- 557 Instrumental Conducting.** Advanced techniques and skills for conducting band and orchestral literature with emphasis on score analysis. Prerequisite: MUP 457 or equivalent.
- 558 Repertoire.** One semester hour credit, one hour lecture per week. Literature available for solo performance in all performing media. May be repeated for credit.
- 561 Survey of Vocal Literature.** Two semester hours credit, two hours lecture per week. A comprehensive survey of works written for voice and piano in all genres. The course will culminate in a performance-oriented final project. Prerequisite: Permission of instructor.
- 562 Survey of Instrumental Literature.** 2 semester hours credit, 2 hours lecture per week. A comprehensive survey of works written for keyboard and other instrument(s). The course will culminate in a performance-oriented final project. Prerequisite: Permission of instructor.
- 564 Performance Pedagogy and Materials.** Practicum in the principles and methods of solo performance techniques for each performance field.
- 595 Recital.** Zero semester hours credit. For graduate students whose degree requires one or more recitals. May be repeated.

MUS (Independent Studies Courses)

- 478 Seminar.** One to three semester hours credit. May be repeated for credit as topics change.
- 572 Professional Development.** One to three semester hours credit. Practicum or workshop experiences designed to develop competencies needed as a result of rapidly changing developments in music. May be repeated for credit.
- 575 Advanced Graduate Studies.** One to three semester hours credit. Individual instruction in music not formally listed for instruction. May be repeated for credit. Prerequisite: Permission of instructor.
- 576 Advanced Graduate Studies.** One to three semester hours credit. Same requirements and description as in 575, but in a different topic. Prerequisite: Permission of instructor.
- 578 Seminar.** One to three semester hours credit. May be repeated for credit as topics change.
- 589* Thesis Research.** Research for thesis. Prerequisite: Permission of adviser.
- 590* Thesis Writing.** Three to nine semester hours credit. Writing of the thesis. Prerequisite: MHL 589 and permission of adviser.

** A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis proposal has been approved.*

SCHOOL OF THEATRE

CLARENCE W. BAHs, DIRECTOR AND
GRADUATE PROGRAM ADVISER

Fine Arts 212B
Phone: (936) 468-4003
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cbahs@sfasu.edu
www.sfasu.edu/theatre

Objectives of the School

The School of Theatre attempts to help the student meet the following objectives: (1) to enhance the teaching of theatre at the high school level; (2) to meet specific professional needs in related occupations; and (3) to cultivate an appreciation for culture and civilization as expressed through the art of theatre.

Graduate Program

The school does not offer a graduate degree in theatre. A graduate minor consists of nine-15 hours, chosen in consultation with a school adviser. The minor program will be arranged to satisfy the student's individual needs and/or complement the major area of interest. A portion of the comprehensive examination will be devoted to the minor area as directed by the student's advisory committee.

Graduate students also may take theatre courses as part of a specialty option for the Master's of Interdisciplinary Studies (M.I.S.) degree or take courses as electives to support their degree plans.

Graduate Faculty

Professors

Clarence W. Bahs, Ph.D., Bowling Green University, Directing, History, Theory, and Acting

Alan Nielsen, Ph.D., City University of New York, Theory, History, Film Studies, and Directing

Allen H. Oster, M.F.A., University of Utah, Acting and Directing

Associate Professors

Richard C. Jones, III, Ph.D., University of Kansas, History and Criticism

Assistant Professors

Angela Bacarisse, M.F.A., University of Memphis, Costume Design

Kyle Kennedy, M.F.A., University of Texas at Austin, Acting

Courses in Theatre (THR)

Unless otherwise indicated, courses are three semester hours credit.

- 411 Theatre for Children.** Three semester hours. Principles and methods of creating theatre with and for children. Prerequisite: Lower division theatre core or nine hours elementary education. Lab fee \$5.
- 421 Introduction to Directing.** One hour lecture, four hours lab per week. An introduction to the art and craft of directing with emphasis on the stage platform as an expressive medium.
- 424 Dialects.** Two semester hours. The study and use of dialects for the stage.
- 425 Repertory Theatre.** Practicum in all phases of theatre production for public presentation. No more than six credit hours may be earned.
- 427 Acting.** One hour lecture, four hours lab per week. A study of period acting styles for advanced acting students. Prerequisite: THR 321 or permission of instructor.
- 428 Directing.** An intensive study of directing focusing on period plays and styles. Prerequisite: THR 421 or permission of instructor.
- 429 Directing Theatre for Youth.** One hour lecture, four hours lab per week. A study of the special problems in directing young actors and a survey of the literature and materials applicable to this age group. Offered second summer session only. Prerequisite: THR 421 or permission of instructor.
- 450 Directing Practicum.** One to three semester hours. Practical experience in directing, stage management, assistant directing, promotions, and costume, scenic or lighting design.
- 460 Theatre History I.** From primitive theatre to 1700 A.D. Prerequisite: nine hours of theatre and/or English literature.
- 461 Theatre History II.** From 1700 A.D. to the present. Prerequisite: nine hours of theatre and/or English literature.
- 462 Advanced Play Analysis.** Three semester hours. Advanced critical analysis of selected plays from the modern era as blueprints for theatrical production. Course emphasis both in scripts examined and critical methodologies will be on 20th century alternatives to Aristotelian structure. Prerequisites: Junior standing and completion of THR 162 with a grade of C or better.
- 463 Introduction to Playwriting.** An introductory course in writing for the stage. Consists of a series of practical, short writing exercises in characterization, dialogue, plot, etc., culminating in a one-act play. Prerequisites: THR 162, any creative writing course, or permission of instructor.
- 471 Topics in the Theatre and Drama.** Three semester hours. Specialized topics in the history, literature, theory, and practice of theatre. May be repeated twice for credit provided topics are different. Prerequisite: Nine hours of theatre including THR 162 or consent of the instructor.
- 480 Design for the Theatre.** Three semester hours, one hour lecture and four hours lab per week. May be repeated. A study of advanced techniques in design of scenery, costumes, makeup and lighting. Prerequisite: lower division core or permission of instructor.

F THE ARTHUR TEMPLE COLLEGE OF
FORESTRY AND AGRICULTURE

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COLLEGE OF
FORESTRY AND AGRICULTURE

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e-mail: ATCOFA@sfasu.edu

Mission

The mission of the Arthur Temple College of Forestry and Agriculture (ATCOFA) is to maintain excellence in teaching, research and outreach; to enhance the health and vitality of the environment through sustainable management, conservation, and protection of our forests and natural resources; and to enhance the production and economic viability of agricultural commodities. The mission consists of the following objectives:

- The ATCOFA is dedicated to comprehensive undergraduate and graduate education, basic and applied research programs, and service.
- In the educational program, students receive classroom and field-based experiences to prepare them for their professional careers. Academic courses provide learning opportunities that encourage and inspire students to approach forest resource, environmental, agricultural, and social issues in a critical yet creative manner, to identify and analyze key elements, and to articulate ethical solutions.
- The college has a strong commitment to a research program that encourages basic and applied studies in natural resource management, environmental topics, agricultural production, and social values. Although research projects are centered predominantly in East Texas, the issues addressed and results obtained often have national and international implications.
- To complete the college's mission, a service program provides professional expertise, information and training. Practicing professionals, industrial and owners, non-industrial and owners, public agencies, farmers, ranchers, poultry producers, and society in general are beneficiaries of these services.

The forestry and agriculture complex contains classrooms, laboratories, student computer rooms, greenhouses, an arboretum, a native plants garden, state-of-the-art poultry houses, a center for livestock production, and geographic information systems (GIS) laboratories. The Piney Woods Conservation Center, an off-campus facility located on Sam Rayburn reservoir, provides an ideal setting for field-based studies. The Forest History Collection, housed in the university library and associated with the Forest History Foundation, has many manuscripts dealing with the history of the East Texas lumber industry. Laboratories of the U.S. Forest Service's Southern Research Station, the U.S. Fish and Wildlife Service, and the Texas Parks and Wildlife Department, located in the SFA Forestry Center, also are available for graduate instruction and research. The Institute for White-tailed Deer Management & Research was established in 1975 to conduct relevant research on deer management in a forested environment. The Institute has garnered an international reputation as a center of excellence; and, has been responsible for significant discoveries regarding deer behavior, biology, habitat and management. Graduates from this program are in high demand from employers of all types.

The Forest Resources Institute (FRI) is located on the 40-acre Tucker Estate at 2900 Raguet St. FRI's mission is to serve as a "friend of the forest" providing unbiased, scientific information concerning various forest resource management issues. FRI provides a "think tank" atmosphere for resident and visiting scientists, and also houses the Forest Resources Information System that provides up-to-date information on southern forestry issues via the World Wide Web, and the Columbia Regional Geospatial Service Center System. The Columbia Center was funded by Congress in 2005 to provide regional geospatial support in time of emergency. Columbia provides the administrative lead for a system that now includes the University of Texas at El Paso, the Texas Natural Resources Information System and the Texas National Guard.

The campus is situated near the Stephen F. Austin Experimental Forest, five wilderness areas, several million acres of private commercial forests, and four national forests. The university also is situated in the heart of the nursery/landscape, beef cattle and poultry industries of East Texas. Forestry, environmental science and agriculture classes take advantage of these resources for hands-on education and research opportunities. Both forestry and agriculture programs benefit from cooperative efforts with industry and producers.

FORESTRY

MICHAEL S. FOUNTAIN,
ASSOCIATE DEAN AND
GRADUATE PROGRAM ADVISER
FO 100
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Admission Requirements

For admission to graduate study toward a Master of Science, Master of Forestry, or a Ph.D. in Forestry degree, the student must meet the requirements for admission to the Graduate School and the requirements for admission to the specific program of study.

For admission to the graduate program in forestry, the student must submit the graduate application form, transcripts, GRE scores, and the \$25 application fee to the Graduate Office (P.O. Box 13024-SFA Station, Nacogdoches, Texas 75962-3024). Foreign students also must include the International Student Admission form that is available from the Admissions Office or via the Admissions Office Web site.

A copy of the completed application packet along with a letter of application indicating the potential major professor as well as the student's area of academic and research interest within forestry and two letters of reference from individuals having knowledge of the applicant's academic and research potential should be sent directly to the Associate Dean (P.O. Box 6109, SFA Station, Nacogdoches, Texas 75962-6109). Admission to a graduate program in the ATCOFA is contingent upon acceptance by a faculty member as a major professor.

Graduate Programs in Forestry

The ATCOFA offers three graduate programs in forestry: the Master of Science (M.S.), the Master of Forestry (M.F.), and the Ph.D. in Forestry (Ph.D.). Minimal core course requirements in all programs are research methods (FOR 510 or equivalent) and statistical analysis (FOR 517 or equivalent).

The Division of Environmental Science, a collaborative unit of the ATCOFA and the College of Sciences and Mathematics, offers the Master of Science degree in Environmental Science. Many of the ATCOFA faculty serve as major advisers or committee members for students pursuing this degree.

Master of Science

The M.S. program with thesis requires a minimum of 24 semester hours of graduate coursework and six semester hours of thesis research and writing for a total of 30 semester hours. Students not having an appropriate background may be required to complete additional course work at the undergraduate level as part of their graduate program. Background work could include the following areas: forest

biology, forest resources inventory, social forestry, forest ecosystem management, and forest resources administration. Specific courses to meet these objectives will be selected with the advice and approval of the major professor and the advisory committee, subject to approval by the dean of the ATCOFA.

Master of Forestry

The non-thesis M.F. program is limited to a cooperative program between the Colleges of Forestry and Agriculture and Business and requires a minimum of 38 semester credit hours of graduate course work plus reports and a professional paper in the student's area of interest. This degree is intended for professional foresters with at least five years of experience who wish to further their education in the areas of business, forest management or forest economics.

Ph.D. in Forestry

The Ph.D. in Forestry symbolizes the mastery of a special field of learning and indicates the ability of the recipient to independently complete original research and the highest levels of scholarly work. The recipient must demonstrate a comprehensive knowledge of the specialized field by successful completion of a prescribed course of study, planning and conducting original research, preparation and defense of a dissertation, and passing qualifying and final examinations. The Ph.D. in Forestry is a research degree awarded in recognition of the student's ability to think and work independently as a scholar, and to contribute to society by conducting original research in a chosen field of natural resource management.

Research Fields

Facilities of the ATCOFA allow research in all fields of study represented by the graduate faculty: soils, economics, ecology, biometrics, forest management, wildlife management, watershed, recreation, agroforestry, wood science, tree physiology, entomology, hydrology, silviculture, fire ecology and management, urban forestry, remote sensing, geographic information systems (GIS), spatial science and environmental interpretation.

Graduate Assistantships

A number of graduate assistantships are awarded each year in the college. For information and applications, contact the associate dean of the ATCOFA or visit the ATCOFA Web site.

Graduate Faculty

Professors

R. Scott Beasley, Ph.D., University of Arizona, Forest Hydrology
 Mingteh Chang, Ph.D., West Virginia University, Forest Hydrology
 Kenneth W. Farrish, Ph.D., University of Minnesota, Soils
 Michael S. Fountain, Ph.D., West Virginia University, Silviculture, Dendrology
 James C. Kroll, Ph.D., Texas A&M University, Forest Wildlife Management
 Gary D. Kronrad, Ph.D., University of Massachusetts, Forest Economics
 David L. Kulhavy, Ph.D., University of Idaho, Forest Entomology
 Michael H. Legg, Ph.D., Michigan State University, Recreation, Interpretation
 Darrel L. McDonald, Ph.D., Texas A&M University, GIS, Remote Sensing
 Brian P. Oswald, Ph.D., University of Idaho, Fire Ecology and Management
 Hans M. Williams, Ph.D., Auburn University, Eco-physiology
 Jimmie L. Yeiser, Ph.D., Texas A&M University, Silviculture, Tree Improvement

Associate Professors

Dean W. Coble, Ph.D., University of Montana, Biometrics

Daniel R. Unger, Ph.D., University of Idaho, Remote Sensing, Spatial Science

Assistant Professors

Theresa G. Coble, Ph.D., University of Minnesota, Resource Interpretation

Christopher E. Comer, Ph.D., University of Georgia, Forest Wildlife Management

Warren C. Conway, Ph.D., Texas Tech University, Forest Wildlife Management

I-Kuai Hung, Ph.D., Stephen F. Austin State University, GIS, Spatial Science

David R. Ownby, Ph.D., The College of William & Mary, Environmental Science

Pat Stephens Williams, Ph.D., Southern Illinois University, Resource Interpretation

Research Professor

Shiyu Li, Ph.D., Stephen F. Austin State University, Medicinal Plants

Research Scientist

Zhi Zhen Zhang, Ph.D., Beijing Medical University, Biological Pharmacy

Courses in Forestry (FOR)

Unless otherwise indicated, courses are three semester hours credit. Lectures and laboratories are paired and must be taken concurrently. In a course with a lecture and laboratory, one grade is generated. Graduate degree plans can include up to six credit hours of 400-level courses.

- 402 Field Ecology.** Three semester hours, two hours lecture and three hours lab per week. Principles of synecology and population ecology as they affect vegetative and animal communities. Ecological impacts of management, quantitative analysis of communities. Prerequisites: FOR 209 or BIO 313. Course fee required. Fall only.
- 404 Urban Forestry.** Two hours lecture and three hours lab per week. Planning, establishment, protection, and management of individual trees and forest systems within an urban environment. Required field trips. Prerequisites: FOR 209, 349. Fall only, odd years.
- 405 Environmental Communication and Interpretation.** Three semester hours, two hours lecture and three hours lab per week. An overview of the field of natural resource communication and interpretation. Of particular interest to those whose careers require public interaction. Fall only.
- 409 Forest Hydrology.** Three semester hours, two hours lecture and three hours lab per week. Study of the affects of forests and forest activities on water quantity and quality, soil erosion, and stream sedimentation. Required field trips. Prerequisite: FOR 349.
- 411 Timber Management.** Two semester hours. Concepts of stand-level and forest-level timber harvesting schedules. Prerequisite: FOR 317. Spring only.
- 427 Regional Silviculture.** Three semester hours. Multiple use management of the major forest types of the United States. Prerequisite: FOR 347. Fall only.
- 428 Intensive Silviculture.** Three semester hours, two hours lecture and three hours lab per week. Study of tree improvement in silviculture context. Fundamental concepts from tree breeding, vegetation management and

- forest fertilization. Prerequisite: FOR 310. Course fee required. Spring only.
- 435 Forest Economics.** Three semester hours. Economic analysis for decision making in forestry. Prerequisites: ECO 232, FOR 310. Fall only.
- 438 Fire Use in Land Management.** Two hours lecture and three hours lab per week. Study of fire in land management. Preparation of burning plans and field applications of prescribed burns. Required field trips. Prerequisite: FOR 337. Spring only.
- 448 Range Management.** Three semester hours. Principles of range management. Characteristics of rangelands and range plants, management of grazing animals and vegetation. Emphasis on interactions with recreation, wildlife and forests.
- 450 Forest Wildlife Habitat Management.** Two hours lecture and three hours lab per week. Theory and practice of evaluating and managing habitat for wildlife. Required field trips. Prerequisite: FOR 305. Spring only.
- 451 Management of Outdoor Recreation Areas.** Two hours lecture per week and three hours lab per week. Planning, development and maintenance of parks and recreation areas. Required field trips. Prerequisite: FOR 351. Fall only.
- 452 Environmental Interpretation Methods.** Three hours lecture per week. Techniques for interpreting natural and cultural resources, and in planning and managing interpretive programs in nature centers and parks. One all day field trip required. Spring only.
- 454 Non-Game Wildlife Ecology.** Three semester hours, three hours lecture per week. An interactive and participatory course with information delivered from reading classic and current research papers on issues in wildlife ecology and animal ecology. A focus on theories, concepts and techniques for sound conservation and management of wildlife and ecosystems. Permission of instructor. Spring only, even years.
- 457 Environmental Attitudes and Issues.** Three semester hours. An overview of the global historical origins and current influences on attitudes toward the outdoor environment. Examination and discussion of environmental ethics and issues. Spring only.
- 458 Forest Resource Management.** Four semester hours, three hours lecture and three hours lab per week. Formulation, calculation, writing, and implementation of multiple-use resource management plans and environmental impact statements and assessments. Prerequisites: Forestry Field Station and FOR 435.
- 460 Forestry Internship.** Three semester hours. Studies of resource management in an operational setting under the supervision of an approved organization. Must be arranged in advance and approved by the forestry dean.
- 463 Special Problems.** One, two or three semester hours. Individual study in an area of the student's choice. May be repeated for credit.
- 464 Contemporary Problems in Forestry.** Three semester hours. Classes

conducted on current topics in forestry.

- 465 Range Development and Evaluation.** Three hours of lecture per week. Required field trips. Principles of the development, improvement and evaluation of rangeland resources. Spring only, odd years.
- 466 Urban Wildlife Management.** Three semester hours, three hours lecture per week. Techniques of managing wildlife population in urban/suburban landscapes. Includes nuisance wildlife and habitat restoration. Spring only, odd years.
- 502 Field Ecology.** Three semester hours, two hours lecture and three hours lab per week. Principles of synecology and population ecology as they affect vegetative and animal communities. Ecological impacts of management, quantitative analysis of communities. Prerequisites: FOR 209 or BIO 313. Course fee required. Fall only.
- 503 Remediation and Reclamation of Disturbed Land.** Two hours lecture, three hours lab per week. Remediation and reclamation of contaminated or disturbed lands. Required field trips including two all day trips. Spring only, odd years.
- 504 Southern Hardwood Silviculture.** Two hours lecture and three hours lab per week. Silvicultural, economic and utilization considerations of the major and minor hardwood and hardwood-conifer forest types. Required field trips. Fall only, odd years.
- 505 Wetland Wildlife Management.** Three semester hours, three hours lecture per week. Principles of wetland management to maximize wildlife suitability, use, biological diversity, and ecological integrity. Wetland management techniques, practices and concepts with an emphasis on wetland management for migratory birds including waterfowl, shorebirds and other non-game birds. Permission of instructor. Spring only, odd years.
- 506 Wildlife Population Ecology.** Three semester hours, three hours lecture per week. Quantitative and conceptual approach to understanding population ecology and dynamics of wildlife species. Population estimation and other analytical/modeling techniques with an emphasis on conservation and management of game and non-game wildlife populations. Permission of instructor. Fall only, odd years.
- 510 Research Methods In Forestry.** Three semester hours. Development and analysis of statistical designs for forestry research. Spring only.
- 511 Conservation of Natural Resources.** Three semester hours. Examination of forest natural resources and their role in sustaining the southern forest. Investigations with forest industry and forest land managers. Field trips.
- 514 Wetland Delineation and Functional Assessment.** Two hours lecture, three hours lab per week. The history, regulations and current technical criteria for the identification and delineation of wetland boundaries and the functional assessment of wetlands. Spring only, odd years.
- 515 Tree Physiology.** Two hours lecture and three hours lab per week. The physiological processes and conditions of woody plants. Spring only, odd years.
- 516 Forestry Investment Analysis.** Three semester hours. Quantitative micro-economic and analysis techniques applicable to solving economic

- and business-related problems in multiple-use forest management. Prerequisites: ECO 232 and FOR 347.
- 517 Biometrics.** Three semester hours. Applications of statistical methods in natural sciences. Emphasis on techniques for analyzing biological data. Fall only.
- 518 Applied Regression Analysis in Natural Resources.** Three semester hours. Applications of regression analysis in natural sciences. Emphasis on regression techniques for analyzing biological data.
- 521 Landscape Ecology.** Three semester hours. Examination of land use and land use changes in the context of land-use management objectives. Tools and methodologies in spatial analysis will be examined.
- 523 Plant Water Relations.** Two hours lecture and three hours lab per week. Study of the biotic and abiotic factors that control the water balance. Spring only, even years.
- 524 Economic Project Analysis.** Three semester hours. Execution of rigorous economic analysis and comprehensive financial analysis. The theoretical nature of each type of analysis will be explored. Prerequisite: FOR 516.
- 527 Intensive Silviculture.** Three semester hours, two hours lecture and three hours lab per week. Study of tree improvement in silviculture context. Fundamental concepts from tree breeding, vegetation management and forest fertilization. Prerequisite: FOR 310. Course fee required. Spring only.
- 535 Forest Soils.** Two hours lecture and three hours lab per week. Soil types in relation to silvicultural types and practices. Required field trips. Spring only, even years.
- 540 Forest Recreation Planning.** Three semester hours. Techniques and principles of managing recreational resources.
- 541 Ecology, Management and Harvesting of White-tailed Deer.** Three semester hours. The study of basic biology of the white-tailed deer, the proper management procedures for producing white-tails on forested lands and the proper harvest of these game animals.
- 542 Human Dimensions of Natural Resources.** Three semester hours, three hours lecture per week. Examines the role of resource managers in making wise decisions concerning natural resources, incorporating not only biological sciences but sound information concerning human thought and action regarding natural systems. Spring only, odd years.
- 545 Forest and Range Ecology Concepts.** Three semester hours. The study of ecology through the investigation of some basic ecological concepts as they apply to forest and range management. Prerequisite: FOR 209 or permission of instructor. Fall only, odd years.
- 546 Fire Ecology and Management.** Three semester hours. An investigation of fire ecology in the United States. Emphasis is on how fire ecology is utilized in natural resource management. Prerequisites: FOR 337, 427, 438, or permission of instructor. A Saturday field trip may be scheduled. Fall only, even years.
- 550 Forest Wildlife Habitat Management.** Three semester hours, two hours lecture and three hours lab per week. Theory and practice of evaluating and managing a forest habitat for wildlife. Required field

trips. Prerequisite: FOR 305. Course fee required. Spring only.

- 551 Introduction to GIS and Geospatial Analysis.** Two hours lecture and three hours lab per week. Expanded examination of GIS theory, concepts, technology, and applications.
- 552 Digital Remote Sensing.** Two hours lecture and three hours lab per week. Introduction to the theoretical and practical applications of digital remote sensing for natural resource management. Specifics include: history and overview of remote sensing; electromagnetic spectrum, image acquisition, image classification and accuracy assessment.
- 553 GIS and Geospatial Applications.** Two hours lecture and three hours lab per week. The applications of GIS technology to building and maintaining data bases and analyzing spatial and temporal problems. Reports and field trips are required.
- 557 Ecological Field Methods.** Three semester hours, two hours lecture and three hours of lab per week. Field sampling techniques and methods of observation applicable to the characterization of terrestrial habitats and their biota. Spring only, even years.
- 558 Resource Management Planning.** Three semester hours. Formulation, calculation, writing and execution of multiple-use resource management plans given social and economic goals and constraints and landowner objectives. Environment Impact Statements and Assessments are included. Prerequisite: FOR 435 or permission of instructor.
- 564 Advanced Forestry Topics.** Three semester hours. Classes conducted on current topics in forestry. May be repeated under different topic.
- 566 Urban Wildlife Management.** Three semester hours, three hours lecture per week. Techniques of managing wildlife population in urban/suburban landscapes. Includes nuisance wildlife habitat restoration. Spring only, odd years.
- 567 Oral Interpretive Programs.** Three semester hours. Web course. Application of interpretive philosophy and techniques to oral interpretive programs. Includes the philosophy, techniques, curriculum, training and certification process of the NPS Interpretive Development Program (IDP). Fall only.
- 568 Interpretive Writing.** Three semester hours. Web course. Provides an overview and experience in understanding, analyzing and producing interpretive written products. Introduces students to advanced writing techniques related to graduate and professional performance. Fall only.
- 569 Interpretive Research and Evaluation.** Three semester hours. Web course. Overview of interpretive research and evaluation with a focus on theory development, methodological approaches and research design. Spring only.
- 570 Field-Based Interpretive Programs.** Three semester hours. Web course. Overview of field-based interpretive programs and conducted activities including a review of essential elements and an examination of approaches. Spring only.
- 571 Curriculum-Based Interpretive Programs.** Three semester hours. Web course. Explores the body of knowledge and skills necessary to understand, develop and present an effective curriculum-based program.

- Fall only.
- 572 Interpretive Planning.** Three semester hours. Web course. Examines significant aspects of interpretive planning including leadership, plan development and participation on a planning team. Fall only.
- 573 Interpretive Leadership.** Three semester hours. Web course. Overview of interpretive leadership skills, principles and techniques including program administration, public outreach, staff training, and coaching. Fall only.
- 575 Advanced Graduate Studies.** One to three semester hours. Individual study in an area of the student's choice.
- 576 Advanced Graduate Studies.** One to three semester hours. Same as 575 in a different area.
- 587 Seminar.** Three semester hours. Presentation and discussion of current scientific work in forestry, research proposals, study plans and manuscripts. May be repeated.
- 589* Thesis Research.** Three, six or nine semester hours. Research for the thesis.
- 590* Thesis Writing.** Three, six or nine semester hours. Writing of the thesis.
- 649 Digital Image Processing.** Two hours lecture, three hours lab per week. Analysis of digital image processing techniques applied to satellite and other non-photographic data involved with mapping, monitoring and management of resources. Techniques involved with enhancement and analysis for both visual and digital applications will be explored. Prerequisite: FOR 552.
- 677 Doctoral Problems.** Investigation into areas not included in student's dissertation. May be repeated.
- 698* Dissertation Research.** Research for the dissertation. Credit varies. Grade will be P (Pass) or F (Fail).
- 699* Dissertation Writing.** Writing of the dissertation. Credit varies. Grade will be P (Pass) or F (Fail).

** After the first enrollment in 589 and/or 590 (698 and/or 699 for doctoral students), a student must register for these courses each semester or summer session until the thesis/dissertation is completed. However, a student may not register the first time for 590/699 until the thesis/dissertation proposal has been approved.*

DEPARTMENT OF AGRICULTURE

R. DALE PERRITT, CHAIR AND
GRADUATE ADVISER
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J. LEON YOUNG, GRADUATE ADVISER. AG 106

The Master of Science Degree in Agriculture at SFA is a professional degree with a concentration in general agriculture. However, a full-time student may concentrate to a limited degree in an area of specialization by course selection. The student also may develop a degree plan leading to further graduate study. The degree is designed to serve:

1. The Part-Time Student

Courses are offered in a sequence that enables a continuing student to register each semester without conflicts.

2. The Full-Time Student

The full-time student may take the recurring sequence of 500-level courses in the Department of Agriculture. These may be supplemented by courses from the 400- and 500-levels from the minor or electives to assure a full load of course work.

Requirements for admission are the same as the general admission requirements of the Graduate School.

Option I. The Master of Science Degree with a major in Agriculture without a thesis

The non-thesis option requires a 36-hour program of course work including three hours of applied statistical analysis when appropriate. It is primarily designed for the part-time student who will be scheduling evening classes. A minimum of 18 hours must be selected in agriculture with counsel of the program director. This may be concentrated in any area of emphasis in agriculture.

Option II. The Master of Science Degree with a major in Agriculture with thesis (recommended for students planning further graduate study)

The thesis option requires 24 semester hours of course work and 589 (Thesis Research-three semester hours) and 590 (Thesis Writing-three semester hours) for a total of 30 semester hours including a minimum of three semester hours in graduate statistics or biometrics. Course work is usually concentrated in the broad area of agriculture. Candidates contemplating further graduate study should use

the thesis option. The thesis subject will be in the major area of specialization.

Non-Agriculture B.S. Graduates

Students who concentrated on non-agricultural studies on the baccalaureate level may broaden employment opportunities by pursuing the master's degree in agriculture. There is an expanding demand for a combined academic background of related sciences and applied agriculture. A student is in an excellent position to enhance employability in the areas of production, product development, research and sales in the agribusiness complex.

Non-Ag Graduates

Deficiency Courses

Related Science Major with Agriculture Minor	0
Related Science Major	9
Other Non-Agriculture Majors	Individual evaluation
(Will usually consist of 18 to 21 hours of undergraduate agriculture and six to eight hours each of introductory chemistry and biology.)	

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department. For information and applications, contact the chair of the department.

Graduate Faculty

Professors

Tim Cherry, D.V.M., Texas A&M University, Veterinary Medicine
D.L. Creech, Ph.D., Texas A&M University, Horticulture
J.E. Gotti, Ph.D., University of Georgia, Animal Breeding
R.D. Perritt, Ed.D., Mississippi State University, Agricultural and Extension Education
J.L. Young, Ph.D., Iowa State University, Soil Fertility

Associate Professor

L.C. Thompson, Ph.D., University of Tennessee, Agricultural Economics

Assistant Professors

Erin G. Brown, Ph.D., Texas A&M University, Animal Nutrition

Graduate Courses in Agriculture (AGR)

Unless otherwise indicated, courses are three semester hours credit.

- 500 Technical Seminar.** A course involving students in technical presentations of original research and reviewed technical topics in agriculture. Required of all M.S. candidates in agriculture. May be repeated up to three semesters. (One hr).
- 501 Advanced Nutrition.** Analysis of nutritional theory for ruminants and monogastrics. Prerequisite: 12 hours of agriculture including agriculture 333 or related fields.
- 508 Soil-Plant Relationships.** Characteristics of soil, their influence on plant growth, soil reaction, cation exchange, nitrogen fixation, soil analysis, and fertilizer materials. Prerequisite: 12 semester hours of agriculture or related fields.
- 514 Advanced Horticulture Crop Production.** Current techniques of

fruit, vegetable and ornamental production-plant density, soil, water, and pest management considerations.

530 Interdisciplinary Research. A course investigating the tools of research, problem formulation and analysis, common research design, common errors in research, and instrumentation and sampling techniques.

531 Advanced Agricultural Waste Management. Comprehensive management of animal, forest and processing by-products. From a research perspective, emphasis is placed on the chemical makeup of waste and the consequences of its physiological effect.

575 Advanced Graduate Studies. One to four semester hours. Advanced individual instruction. Prerequisite: Undergraduate minor in agriculture. May be repeated under different topics.

578 Seminar. May be repeated.

580 Topics in Agriculture. May be repeated.

589* Thesis Research. Should be planned and initiated at least two semesters before the thesis is to be completed.

590* Thesis Writing. The research project of this course must be initiated at least one semester before registration in order that the thesis research be carried over a period of not less than two semesters.

Graduate Courses in Agricultural Economics (AEC)

542 Agricultural Policy. This course provides the guidelines for thinking about agricultural policy issues that have dominated farm and food policy, and emphasizes policy analysis rather than policy prescription.

551 Farm Management. The application of business principles to farming, organization and management of farms, farm records, and farm accounts.

Graduate Courses in Agricultural Development (AGD)

581 Methods of Teaching Agricultural Sciences in the Secondary School. Instructional methods and techniques that emphasize practical applications of the teaching-learning process. Special emphasis will be placed on student evaluation, classroom management and discipline, and essential curriculum/programmatic elements unique to agricultural science and technology.

Graduate Courses in Agricultural Machinery (AGM)

510 Ag Machinery Operation and Performance. Two hours lecture, two hours laboratory per week. To study the operation, performance and management of agricultural machinery. Travel fee \$3. Lab fee \$5.

525 Mobile Hydraulics in Agriculture. Two hours lecture, two hours

laboratory per week. Basic principles of hydraulics, hydrodynamics and hydrostatics; diagnosis and testing; hydraulic valves; and the history of hydraulics. Prerequisite: Six hours of agriculture. Lab fee \$5.

Graduate Courses in Agronomy (AGN)

- 445 Plant Breeding.** Improvement of crops through hybridization and selection with special emphasis on methods of breeding self-pollinated, cross-pollinated and vegetatively propagated plants.
- 448 Range Management.** Principles of range management. Characteristics of range lands and range plants, management of grazing animals, and vegetation.
- 467 Agriculture Chemicals.** Uses, modes of action, safety, pesticide laws, persistence of residues, and environmental interactions of insecticides, fungicides, and herbicides. Prerequisites: CHE 112 or equivalent, plus nine hours of agriculture.
- 469 Plant Protection.** Biological, chemical, cultural, and physical control of insects, diseases, and weeds, including the concepts of integrated pest management.

Graduate Courses in Animal Science (ANS)

- 452 Equine Law Studies.** The development of a basic understanding of the legal principles involved in common problems associated with horse ownership and horse production.
- 528 Animal Reproductive Physiology.** Two hours lecture, two hours laboratory per week. Concepts and applications of reproduction in farm animals. Endocrinology, anatomy and physiology, spermatogenesis, oogenesis, fertilization, gestation, parturition and behavior are studied with practical application toward increasing animal production. Prerequisites: AGR 131, plus nine hours of agriculture.
- 541 Principles of Animal Breeding.** Selection and systems of breeding livestock. Traits of economic importance. Genetic and statistical principles as they apply to farm animal selections. Prerequisites: Bio 320 or 341 and 12 semester hours of animal science.
- 542 Equine Production and Management.** Two hours lecture, two hours lab per week. Provides the student with the scientific application of biological and biotechnological principles of horse production and management. Emphasis on reproduction, nutrition, genetics, disease, health, and exercise physiology that is unique to the horse.
- 544 Feedstuffs, Feeding and Formulation.** Two hours lecture, two hours laboratory per week. Feedstuffs, feed formulation, feed processing and livestock feeding. Prerequisite: ANS 333. Lab fee \$5.

Graduate Courses in Horticulture (HRT)

- 516 Plant Propagation.** Two hours lecture, two hours laboratory per week. Physiological relationships involved in plant propagation-environmental factors as they relate to plant growth structures and nursery conditions.
- 518 Public Garden Management.** A course designed to empower

students with the public garden management field. Topics covered include developing a mission statement, site analysis, personnel, collections and acquisition policy, educational programming, computer mapping and record keeping, signage and interpretation, funding, volunteers, garden design, and selection of the best plants to emphasize in a collection.

Graduate Courses in Poultry Science (PLS)

- 420 Agriculture Waste Management.** The principles of agricultural waste management, addressing animal and human wastes as well as management and disposal of agricultural chemicals.
- 437 Applied Poultry Production.** Two hours lecture and two hours lab per week. Advanced study of poultry nutrition, organization and management of commercial poultry production and processing operations. Use of computers in designing, planning and managing a modern commercial poultry operation. Lab fee \$5. Prerequisite: ANS 237.
- 537 Poultry Breeding and Management.** Two hours lecture, two hours laboratory per week. Poultry breeding and modern management principles. Lab fee \$5.
- 540 Non-Ruminant Nutrition and Feeding.** Focuses on nutrition and feeding of non-ruminant animals. Address the interactions between nutrition and carcass product quality, immunology and environments in monogastric animals.
- 565 Agriculture Products Processing.** A study of the technological processes involved in the preparation, processing and packaging of agricultural products, including: livestock, poultry, fish, fruits, nuts, vegetables, and dairy. Consumer trends, governmental regulations and research efforts affecting agricultural products processing also will be studied. Overnight field trip required.

**A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis proposal has been approved.*

THE COLLEGE OF
*L*IBERAL ARTS

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<http://titan.sfasu.edu/english/address.htm>

Objectives of the Department

Graduate students in English seek to acquire a body of learning in British, American, and World Literatures and to develop critical skills and standards of judgment. More particularly, candidates for the Master of Arts degree work to achieve an understanding of literature, including literary criticism and history, effective skills in spoken and written English, and a knowledge of linguistics.

Background Requirements for Majors and Minors in English

For clear admission to the graduate program, a student must have a GPA of 3.0 on a 4-point scale during the last 60 credit hours of undergraduate work, in advanced-level undergraduate English courses, and acceptable scores on the Graduate Record Exam (General Test). Provisional admission may be granted to a student who has not yet taken the GRE, with the understanding that the student will take the exam at the next test date. For further information on provisional status, see the section of the Graduate Bulletin titled "Admission." Although students may be granted probationary admission with a GPA below 3.0, no students may be granted probationary admission with a GPA below 2.7.

Ordinarily, an English major with an undergraduate degree from an accredited college may pursue graduate study in English; however, any student with fewer than 24 semester hours of undergraduate credit in English may be asked to complete additional work to establish a background for graduate study. Students may be admitted to a graduate minor in English or to complete an elective concentration in English after evaluation of the student's academic background by the director of graduate studies.

Graduate Major in English

Emphasis in this comprehensive degree program is upon the study of literature in its historical context, on theories of criticism and of linguistic analysis, and on the analysis and evaluation of individual literary works. The program also stresses writing along with preparation for teaching and other professions.

In pursuing the M.A., the graduate student should attempt to maintain a balanced program of courses in American, British, and World Literature. A 400- or 500-level course in linguistics is required of all students who have not had an upper-level undergraduate course, and students must take at least one course in literature written before 1600. In addition, all students are required to take the Bibliography and Methods of Research course during their first year of graduate study. Beyond these

requirements, each student develops a plan of study in consultation with the director of graduate studies, who will be as flexible as possible in matching departmental standards and strengths with the student's particular interests and abilities.

Two options are available to graduate students: (1) a 36-hour non-thesis option and (2) a 30-hour thesis option (of which six hours may be ENG 589 or ENG 590). Students will consult with the director of graduate studies to determine which option best suits their needs and goals.

No minor or electives outside of English are permitted in the thesis program; in the non-thesis program, a student may, with the consent of the director of graduate studies, take from three to six hours outside the Department of English, provided these courses develop a concentration in another related subject of study.

Additional Requirements for the Graduate English Major

All graduate students working toward the Master of Arts degree in English must fulfill an additional requirement by presenting two years of undergraduate credit in a foreign language or by passing a reading examination in an ancient, classical, or modern foreign language.

To fulfill the university requirement of a final comprehensive examination for a master's degree, a student must either submit a score of 550 or higher on the Graduate Record Examination in Literature to be taken during or prior to his/her last semester of course work at SFA or pass a departmentally administered written three-hour comprehensive examination.

Graduate Minor in English

A student pursuing the master's degree in an area outside the Department of English and Philosophy may take a first minor in English. The minor in English consists of nine or more semester hours of English as approved by the director of graduate studies.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year. Interested applicants should be prepared to submit a departmental assistantship application, three letters of recommendation, a writing sample, and academic transcripts. For additional information and copies of relevant forms, students should contact either the chair of the department or the director of graduate studies.

Graduate assistants assist faculty teaching Freshman Composition and receive pedagogical training in Freshman Composition during their first year in the program; a few work as assistants to the editor of RE:AL. Selected graduate assistants also may have the opportunity to tutor in the Academic Assistance and Resource Center or the Athletics Department for additional compensation. Experienced graduate assistants who have received training in Freshman Composition by working closely with a faculty member and who have completed 18 graduate hours of course work in English have the opportunity to teach sections of Freshman Composition. Graduate teaching assistants are required to take the graduate course in Teaching Composition (ENG 580) during their first year of course work in the program.

Graduate Faculty

Professors

Terry J. Box, Ph.D., Texas Tech University, British Renaissance Literature and Shakespeare

Barbara Catherine Carr, Ph.D., Indiana University, Comparative Literature, Film Aesthetics

W. Dale Hearell, Ph.D., Washington State University, English Literature, American Literature, Bibliography

Linda F. White, Ph.D., University of Connecticut, Rhetoric and Composition, Eighteenth-century British Literature

Associative Professors

Marc S. Guidry, Ph.D., Louisiana State University, Medieval British Literature

Tracy A. Johnson, Ph.D., Purdue University, Linguistics

Assistant Professors

Norjuan Austin, Ph.D., Illinois State University, Children's Literature, African-American Literature, Rhetoric and Composition

Ali Barish, Ph.D., State University of New York at Buffalo, World Literature (non-European: Latin America, Caribbean, African, Middle Eastern)

Reshmi Dutt, Ph.D., Contemporary World Literature, Post-Colonial Literature

Kirsten Escobar, Ph.D., Baylor University, British Victorian Literature

Michael Given, Ph.D., Southern Illinois University, Modernism, 20th Century British Literature, Modern Irish Literature

Michael Martin, Ph.D., Illinois State University, Contemporary American Literature

Christine McDermott, Ph.D., Purdue University, TransAtlantic Literature

John McDermott, Ph.D., University of Wisconsin-Milwaukee, Creative Writing

Charles Luis Padron, Ph.D., Vanderbilt University, American Philosophy

Matthew Ramsey, Ph.D., Ohio State University, Film Studies, 20th Century American Literature

Kelly Salsbery, Ph.D., Syracuse University, American Philosophy

Anne Collins Smith, Ph.D., The University of Texas at Austin, Classical Philosophy, Latin

Owen Smith, Ph.D., The University of Texas at Austin, Classical Philosophy, Greek

Kenneth L. Untiedt, Ph.D., Texas Tech University, Literature of the American West, 20th Century American Literature

Kevin West, Ph.D., Indiana University, World Literature (European), British Literature

Courses in English (ENG)

Advanced Undergraduate Courses

With permission of the director of graduate studies in English and the department chair, the following advanced undergraduate courses may be taken for graduate credit. No more than six semester hours of 400-level courses may normally be applied to a graduate degree.

405 Topics in Comparative World Literature. Prerequisite: Graduate standing or departmental permission.

412 Topics in British Literature. Prerequisite: Graduate standing or departmental permission.

421 Topics in American Literature. Prerequisite: Graduate standing or departmental permission.

- 423 Topics in Southwestern Literature.** Prerequisite: Graduate standing or departmental permission.
- 425 Topics in Shakespeare.** Prerequisite: Graduate standing or departmental permission.
- 436 Topics in Contemporary Literature.** Prerequisite: Graduate standing or departmental permission.
- 441 Linguistic Theory.** Prerequisite: Graduate standing or departmental permission.
- 442 Topics in Linguistics.** Prerequisite: Graduate standing or departmental permission.
- 444 Teaching in the Secondary School.** Prerequisite: Graduate standing or departmental permission.
- 446 Advanced Topics in Film.** Prerequisite: Graduate standing or departmental permission.
- 448 Advanced Topics in Gender Studies.** Prerequisite: Graduate standing or departmental permission.
- 461 Advanced Creative Writing.** Prerequisite: Graduate standing or departmental permission.
- 470 Advanced Topics in Ethnic Studies.** Prerequisite: Graduate standing or departmental permission.
- 472 Advanced Topics in African-American Literature.** Prerequisite: Graduate standing or departmental permission.
- 473 Advanced Technical Writing.** Prerequisite: Graduate standing or departmental permission.
- 481 Advanced Composition.** Prerequisite: Graduate standing or departmental permission.
- 461 Advanced Critical Theory.** Prerequisite: Graduate standing or departmental permission.

Graduate Courses

- 505 World Literary Topics.** Intensive study of an aspect of world literature from antiquity to the present, such as form, genre, or period. May be repeated for credit with different topic.
- 510 British Literary Topics.** Intensive study of an aspect of British literature from the Anglo-Saxon period to the present, such as form, genre, or period. May be repeated for credit with different topic.
- 520 American Literary Topics.** Intensive study of American literature from the Colonial period to the present, focusing on a theme, literary movement, period, or other unifying emphasis. May be repeated for credit with different topic.
- 521 Comparative Literature.** The study of literature (authors, genres, themes, style, movements, periods) beyond the confines of national and linguistic boundaries; relationships between literature and other areas of knowledge, such as the arts (film, painting, sculpture, architecture, music), philosophy, history, science, religion, politics, sociology, etc.
- 530 Major Authors.** Intensive study of the writings, life and cultural context of major writers.

- 540 Linguistic Analysis.** An advanced introduction to theoretical and applied linguistics: theoretical areas surveyed include phonetics, phonology, morphology, syntax, pragmatics and semantics; applied areas include language variation, first and second language acquisition, written language and the neurology of language.
- 542 Special Topics in Linguistics.** Advanced study of a particular topic or movement in contemporary or historical linguistics (e.g., psycholinguistics, sociolinguistics, dialectology, semantics, pragmatics, linguistic history, transformational grammar, functional grammar, ethnolinguistics, Chomskyan linguistics. May be repeated for credit with different topic.
- 559 Creative Writing: Poetry Workshop.** Classroom analysis and discussion of student writing.
- 561 Creative Writing: Fiction Workshop.** Classroom analysis and discussion of student writing.
- 570 Rhetoric and Composition Theory.** Exploration of past and present rhetorical theory and its application to the teaching of composition.
- 580 Teaching First-Year Composition.** Introduction to the field of composition and to first-year composition pedagogical practices. Instruction in preparing syllabi, grading student papers and addressing the daily concerns of administering a freshman writing course. (Three credit hours) Required of all GTAs prior to teaching for the first time.
- 581 Practicum Teaching First-Year Composition.** Two-semester training and supervision for GTAs teaching first-year composition. Instruction and support in administering a freshman-writing course as established in the goals and guidelines for English 131 and 132. (One credit hour per semester). Pass/Fail. Required for GTAs concurrent with their teaching English 131 and 132 for the first time.
- 582 Bibliography and Research Methods.** An introduction to the profession; an emphasis on developing skills in research and bibliographic methods, such as electronic databases and traditional texts; intensive practice and application of those skills in graduate-level scholarly writing; additional cocentration in rhetoric and critical theory. Required of all majors and first-year students.
- 583 Special Topics.** Focus on a theme, genre, or theory. May be repeated with different topic.
- 585 Literary Criticism.** Surveys literary criticism from Plato to the present and introduces the variety of critical and theoretical thought in literary studies from New Criticism, structuralism and post-structuralism, psychoanalysis, reader-response criticism, gender studies, Marxist criticism, multicultural and postcolonial theory, etc.
- 589 Thesis Research.** Research necessary to initiate and complete the M.A. thesis. Grade withheld until completion of thesis.
- 590 Thesis Writing.** Writing and revision of thesis for final submission to departmental committee and graduate dean. Prerequisite: ENG 589. (three to nine credits).
- 595 Independent Study.** Independent investigation of topics of specific interest to individual students. Students wishing to enroll in independent study must petition the director of graduate studies prior to the beginning of the semester.

AMERICAN ENGLISH LANGUAGE INSTITUTE

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Mission

The American English Language Institute (AELI) is an academic unit within the College of Liberal Arts that offers instruction in English to speakers of other languages.

Programs

The AELI offers full-time instructional program to students whose TOEFL score is not sufficient to warrant regular admission to the Graduate School. There is a separate application for admission as a full-time AELI student, and admission to the AELI does not constitute admission to any degree-granting program at Stephen F. Austin State University. For further details about the full-time program, including costs and curriculum, please contact the AELI or see the Web site: www.sfasu.edu/aeli.

In addition to the above, the AELI provides graduate-level instruction in ESL to non-native speakers of English who are degree-seeking students at the university. Placement in either ILA 500 or 501 is based upon a language assessment by AELI staff. Students are referred to the director of their graduate program or to the AELI director for further information.

Courses in American English Language (ILA)

- 500 Advanced ESL Oral Skills: Speaking and Listening.** Instruction and intensive practice in oral skills for non-native speakers of English. Counts toward credit hours required for full-time registration, but does not count toward any degree requirements. (Three credit hours).
- 501 Advanced ESL: Grammar and Composition.** Instruction and intensive practice in writing for academic purposes. Counts toward credit hours required for full-time registration, but does not count toward any degree requirements. (Three credit hours).

DEPARTMENT OF HISTORY

SYLVIA F. McGRATH, CHAIR

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JOHN DAHMUS, GRADUATE PROGRAM ADVISER – LA 355

Objectives of the Department

The program for a graduate degree in history is designed to train the candidate as a productive scholar and as an effective teacher. It seeks to familiarize the student with the critical methods in historical research and writing, to introduce the literature of the field, and to acquaint the student with varying interpretations of historical developments. Above all, it attempts to provide the student with the essential tools for a career in the history profession or in related fields.

Graduate Program in History

Students applying to the graduate program should meet general university admission requirements and have at least 18 hours of undergraduate credit in history or history-related courses. The department may permit "stem work" in basic courses to bring students up to departmental requirements.

The department offers a 33-hour program with thesis, and a 36-hour program without thesis. Graduate courses are divided into four broad fields: Europe to 1815, Europe since 1815, the United States to 1865, and the United States since 1865. These fields represent a foundation of knowledge that prepares the student for professional service and careers. Students will take two courses from each of the four broad fields. In addition, majors are required to take History 530 (Historiography).

The thesis program includes six hours credit for thesis research and writing. The student must defend the completed thesis in an oral examination before graduate faculty. The student considering further graduate work in a doctoral program is encouraged to enter the thesis program. The non-thesis student will develop in-depth fields suitable for a teaching career. All non-thesis students are required to pass a comprehensive examination at the conclusion of their graduate work.

M.A. in History with an Emphasis in Public History

The department offers an M.A. in history with an emphasis in public history. A student completing 18 hours of approved public history courses as a part of the regular M.A. program will receive a document stating that the student has earned an emphasis in public history. An emphasis in public history is designed for individuals who desire to work or are working in museums, archives, historical foundations, government

and corporate historical offices, and other public history settings. A student with an emphasis in public history will have 18 hours of required courses including History 530, 535, and 12 additional hours from public history courses. There remains 10 hours (six courses) in the non-thesis program and 15 hours (five) courses in the thesis program. All non-thesis public history students will be required to take one non-public history course in each of the four areas required in the regular program and two elective non-public history courses. Thesis students must take one non-public history course in three different fields plus thesis research and writing. The Public History Committee and graduate adviser may approve individual variations as needed.

History for Public School Teachers

The 36-hour non-thesis program offers broad flexibility to meet varying needs and interests. The student who is a public school teacher or who is considering teaching in the public schools may structure, with the approval of the graduate program adviser and the department chair, a program that includes teacher workshops and classroom teaching apprenticeship experience.

Cooperative programs between the Department of History and the College of Education exist which lead to professional certificates in the College of Education or to the graduate degree in history or education. In addition, the College of Education offers a doctoral program in Education, with an emphasis on leadership.

Graduate Minor in History

A student pursuing a master's degree in an area outside the Department of History may take a first minor in history. The first minor in history consists of nine hours of history as approved by the graduate program adviser.

Master's Degree in History and International Commerce

History with an emphasis on international commercial development is available to students of certain Master of Arts degree programs. The emphasis derives from a combination of a traditional major in history and an interdisciplinary minor drawn from political science, Spanish and business. Its aim is to prepare a student for employment with multi-national corporations and other businesses operating both in this country and abroad. Each program is designed to fit the needs of the individual student; but overall a program seeks to provide the student with an understanding of business, culture, language, politics, and society of the foreign region in which the student is interested.

Program:

Major (18-21 semester hours)

History

Minor (12-15 semester hours)

Political Science or Spanish (Three to six semester hours from the two)

A modern foreign language proficiency is required. The proficiency may be demonstrated in one of the following ways: (1) completing four semesters of a modern foreign language or (2) passing a modern foreign language proficiency test administered by the Department of Modern Languages. A student whose native language is not English may use the native language, after an examination administered by the Department of Modern Languages, to satisfy the language proficiency requirement and then substitute

English language courses on the minor in this program.

Business (nine semester hours from Accounting, Economics and Finance, General Business, and Management and Marketing).

Further information about the international business emphasis may be obtained from the graduate program advisers in history, business, political science, and Spanish.

Research, Publication and Professional Development

The Department of History offers outstanding opportunities for graduate education with training in areas of research, publication, professional presentations, and technology. The department provides students with strong foundations in the discipline of history and ways to apply the discipline to numerous career opportunities.

The university library houses the East Texas Collection that includes numerous journals and diaries of regional and national interest, as well as being a major archive for the oil and lumber industries. The library also serves as a depository for state and government records. Graduate students may do research projects with the regional and state Center for East Texas Studies, with the department's outstanding East Texas Oral History Collection, and the department's Film Library, which utilizes both documentary and dramatic interpretations of historical topics and themes.

Opportunities to publish, to learn applications of history to modern technology, and to present original works at professional conferences are available to graduate students throughout their graduate training.

The department sponsors the East Texas Historical Association, which publishes the East Texas Historical Journal. The pages of the Journal are open to any article of scholarly merit on the history of East Texas and the surrounding region.

The Center for East Texas Studies promotes the study of all aspects of East Texas heritage. The Center provides services, programs and resources to scholars, public schools, organizations, businesses, government entities, and others interested in the region. CETS seeks to become the focal point for innovative research, education and preservation of the heritage of the East Texas region. The center sponsors region-specific grants and contracts that propose to research, edit, collect, exhibit, and distribute historical and cultural information on East Texas. For more information, visit CETS online at www.cets.sfasu.edu.

Clio's Eye: An Audio-Visual Magazine for the Historian, produced by the graduate students of the Department of History, publishes essays by scholars, guest authors and students. The magazine reviews and recommends films, audio-visual materials and related books with historical themes. Visit the magazine online at <http://clioseye.sfasu.edu>.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department. For information and applications, contact the chair of the department.

Graduate Faculty

Regents Professors

Jere L. Jackson, Ph.D., University of North Carolina, Modern Europe, Germany
Sylvia F. McGrath, Ph.D., University of Wisconsin, American Social and Cultural, History of Science, Women

Professors

John W. Dahmus, Ph.D., Cornell University, Ancient and Medieval Europe, Renaissance and Reformation

E. Deanne Malpass, Ph.D., Texas Christian University, British History

Robert N. Mathis, Ph.D., University of Georgia, American History in the Early National Period, American South

Allen M. Richman, Ph.D., University of Minnesota, Twentieth-Century America

Associate Professors

Randi Cox, Ph.D., Indiana University, Russia

Troy D. Davis, Ph.D., Marquette University, Modern Ireland, Europe

Stephen Taaffe, Ph.D., Ohio University, Military, Diplomatic, Progressive Era

Assistant Professors

Robert Allen, Ph.D., Columbia University, France

Mark Barringer, Ph.D., Texas Christian University, Texas and The West

Jennifer Beisel, D.A., Middle Tennessee State University, Public History

Philip Catton, Ph.D., Ohio University, Modern Asia

Andrew Lannen, Ph.D., Louisiana State University, Colonial and Revolutionary America

Courses in History (HIS)

Unless otherwise indicated, courses carry three semester hours credit.

- 424 The Renaissance and Reformation (1350-1648).** The revival of learning and the flowering of literature and the arts in the 14th, 15th, 16th, and 17th centuries, the general history of Europe during the same period, and causes and development of the Reformation.
- 425 Age of Louis XIV (1648-1789).** The emergence of the modern state, the development of modern science, the political thought of the age, the Enlightenment and the background of the French Revolution.
- 426 Europe and the Age of Revolution (A) French Revolution and Napoleon (1770-1815) (B) National and Liberal Revolution (1815-1871).** An examination in two parts of the century of revolutionary change between 1770 and 1871.
- 427 The American South (A) to 1860; (B) 1877-present.** A survey of the history of the American South, 427A places emphasis on the colonial South, slavery, sectionalism and Southern nationalism. Emphasis in 427B is on Southern politics, economics, race relations, the civil rights movement, and contemporary industrial development.
- 443 The Age of Jefferson and Jackson (1789-1850).** The Federalist, Jeffersonian, Jacksonian, and Mexican War eras.
- 445 The Civil War and Reconstruction (1850-1877).** Emphasis is on the causes of the war, the military aspects of the confrontation and those facets of the period related to social life, politics, and economics.
- 451 Contemporary America.** A topical study of contemporary political, economic and social problems in the United States since the end of World War II. Post-war America, the Cold War, the Affluent Society, the revolution of the 60s, Vietnam, and current problems.
- 457 Era of the First World War (1878-1920).** European imperialism, militarism and the international diplomacy that led to World War I, the strategy and campaigns of the war, and post-war treaties.

- 461 Contemporary Europe (1945-present).** Europe since Hitler: The impact of total war and the emergence of the Cold War, the Nuremburg trials and the German recovery, the New French Revolution, the welfare state, the Common Market, the American challenge, and Europe's future choices.
- 469 Great Americans.** A biographical approach to the development of the American nation. The personal impact of selected individuals considered outstanding in political, economic, or social life of the nation. Readings and discussion.
- 530 Historiography.** (A) American (B) European. A survey of the literature of history; intensive studies of the style and philosophy of leading historians; the nature and extent of material for writing history. (Required for graduate degree).
- 531 Historical Research, Writing and Editing.** Introduction to basic historical research and writing, and information literacy useful for history. Includes lectures, readings and work within ongoing projects. (May be repeated once with change of topic).
- 535 Introduction to Public History.** An exploration of the ways in which traditional academic history and public history complement and enrich one another. An introduction to the theory and practice of interpreting history for the public in such areas as historical societies, editing projects, business, libraries, historic preservation projects, museums, and archives.
- 536 Topics in Public History.** Topical studies in various aspects of Public History: historic preservation, cultural resource management, local and family history. (May be repeated with change of topic).
- 541 The Western Heritage: Ancient and Medieval.** (A) Research and readings on the ancient Near East, Greece, and Rome. (B) Research and readings in medieval history from the fall of Rome to the end of the era. (May be repeated once with change of topic).
- 542 Early Modern Europe.** Research and readings on modern Europe from the Renaissance through post-Napoleonic Europe. (May be repeated once with change of topic).
- 543 Recent European History.** (A) Research and readings on Europe in the 19th century. (B) Research and readings on Europe in the 20th century. (May be repeated once with change of topic).
- 544 British Studies.** Research and readings on major topics and areas of British history. (May be repeated once with change of topic).
- 546 Topics In European History.** Topical studies in European military, social, cultural, scientific or economic history. (May be repeated once with change of topic).
- 547 Special Topics in American History.** Topical studies in American science, or American military, social, cultural, or economic history. (May be repeated once with change of topic).
- 551 Colonial and Revolutionary America.** Research and readings in selected topics in the colonial period and the Revolutionary era. (May be repeated once with change of topic).
- 552 Nineteenth-Century America.** Research and readings in the period

- from the Revolutionary War to the Progressive Era. (May be repeated once with change of topic).
- 557 Recent American History.** (A) Research and readings in the Progressive Era. (B) Research and readings on FDR and successors. (May be repeated once with change of topic).
- 561 History of the American Civil War.** 1850-1865 - Special topics in Federal and Confederate affairs, civilian and military, foreign and domestic. (May be repeated once with change of topic).
- 565 Texas. Research and Readings on the History of Texas.** (May be repeated once with change of topic).
- 566 World History.** Research and readings in the histories of Asia, Africa, Latin America, Australia, or the Middle East. (May be repeated once with change of topic).
- 567 Topics in World History.** Topical studies in the military, social, cultural, scientific, or economic history of Asia, Africa, Australia, Latin America, or the Middle East. (May be repeated once with change of topic).
- 570 Collections Management.** Introduction to the broad fields of museum and archival work from the history of both areas to issues of theory and practice, to the development, care and use of collections. Staffing and management concerns, educational and exhibition development, and the social, economic and political trends that shape collections. Resources in the archival collections in the Steen Library and Stone Fort Museum on campus. (May be repeated with change of topic).
- 575 Advanced Graduate Studies.** Individual instruction. Conference and research. Available subjects: American, European and Latin American history. (May be repeated under different topics). Prerequisite: Consent of the adviser.
- 576 Advanced Graduate Studies.** Same as 575 but in a different topic.
- 578 Seminar.** May be repeated.
- 580 The Teaching of History.** An intensive study of the methods and techniques in the teaching of history.
- 581 Seminar in Public History.** Research and readings in various aspects of public history. Various topics including corporate histories, family histories, historical surveys, museums or anniversary exhibitions. (May be repeated once with change of topic).
- 582 Internship In Public History.** Three to six semester hours, six -12 hours per week in some aspect of public history, including museum, editorial, archival, or historical preservation work. Departmental approval.
- 583 Practicum in Public History.** An opportunity to enhance professional growth through integration of theory with planned, supervised and practical work experience. (May be repeated once with change of topic).
- 589* Thesis Research.** Research for the thesis. Prerequisite: Consent of the adviser.
- 590* Thesis Writing.** Writing of the thesis. Prerequisite: History 589 and consent of the adviser.

** A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis*

DEPARTMENT OF
MODERN LANGUAGES

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Objectives of the Department

The Department of Modern Languages recognizes three principal objectives: (1) to develop competence in understanding, speaking, reading, and writing a modern foreign language; (2) to cultivate an appreciation for the culture and civilization of the people whose language is being studied; and (3) to provide guidance in preparation for the various opportunities in language work.

Graduate Program

The university does not offer a graduate degree in modern language. Graduate students may take courses as part of a specialty option for the Master's of Interdisciplinary Studies (M.I.S.) degree or take courses as electives to support their graduate degree plans.

Graduate Faculty

Professors

N. Ann Doyle-Anderson, Ph.D., Indiana University, Comparative Literature and Spanish

Assistant Professors

Carlos Cuadra, Ph.D., University of Colorado, Boulder, Spanish and Latin American Literature and Spanish

Pedro Escamilla, Ph.D., University of Texas, Spanish Linguistics

Joyce Johnston, Ph.D., Indiana University, French Literature

Jean Paul-Ureña, Ph.D., Texas Tech University, Spanish Literature and Language Acquisition

Courses in French (FRE)

Unless otherwise indicated, courses are three semester hours credit.

- 575 Advanced Graduate Studies In French Language or Literature.**
Individual study. Prerequisite: Three years of college French. May be repeated under different topics.

Courses in Spanish (SPA)

Unless otherwise indicated, courses are three semester hours credit.

- 409 Bilingual Literature and Culture.** A study of the Hispanic presence in the United States, examining the historical, political, linguistic and literary evolution of major Hispanic groups. Prerequisite: Two years of Spanish, six hours advanced literature (English or Spanish) or consent of instructor.
- 433 Special Studies in Spanish Language and Applied Linguistics.** Variable topics. May be repeated once for credit with different topic. Prerequisite: Six hours advanced Spanish including 303.
- 435 Special Studies in Latin America Literature.** Advanced studies in the literature and civilization of Latin America. Variable topics. May be repeated once for credit with different topic. Prerequisite: Six hours advanced Spanish (SPA 303 and 304 or 330).
- 445 Special Studies in Peninsular Literature and Civilization.** Advanced studies in the literature and civilization of Spain. Variable topics. May be repeated once for credit with different topic. Prerequisite: Six hours advanced Spanish (SPA 303 and 304 or 340).
- 575 Advanced Graduate Studies in Spanish Language or Literature.** Individual study. Prerequisite: 18 hours of advanced Spanish. May be repeated under different topics.

DEPARTMENT OF
POLITICAL SCIENCE, GEOGRAPHY, AND
PUBLIC ADMINISTRATION

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Richard J. Herzog, Master of Public Administration Program Director
Unna Lassiter, Geography Coordinator

Objectives of the Department

Within the department are the programs of political science, geography, and public administration. The importance of government in the modern world makes it imperative that individuals prepare for an understanding of its intricacies. Graduate study in political science is helpful for teachers of government so they may enrich and strengthen their undergraduate training. Civil service personnel at national, state and local levels can increase their job skills and prepare for better positions through graduate studies. Interested citizens can deepen and broaden their understanding of government as they engage in graduate education.

Geography deals with the real differentiation of the Earth, its evolution, causes and meaning to man. Because it is concerned both with the Earth and human (culture) features, geography provides insights that can not be obtained in other fields of study. Courses available for graduate credit are designed to deepen and strengthen the student's preparation in, and understanding of, the methodology and skills of geography, particularly GIS and spatial analysis.

Graduate study in public administration aims to educate students for tomorrow's management and leadership positions in the public sector, including local governments, state governments and nonprofit agencies. Through graduate studies in public administration, government employees can gain additional skills to advance professional administration.

Political Science Program

The department does not offer a graduate major in political science, but graduate students may minor in political science or choose one or more of its graduate courses as electives in their graduate program. Minors must complete a minimum of nine hours of graduate-level political science courses. Persons registering for graduate credit in political science must have the specific prerequisites for the courses desired.

Geography Program

The geography program is actively involved in graduate programs leading to the Master of Interdisciplinary Studies. Graduate students who minor in geography must consult with the program coordinator to determine prerequisites to prepare students for graduate courses. Any deficiencies will be made up early in graduate studies.

Master of Public Administration (M.P.A.) Program

The mission of the Master of Public Administration (M.P.A.) Program is to educate students for tomorrow's management and leadership positions in the public sector, including local governments, state governments and nonprofit agencies. The M.P.A. Program is designed to meet the needs of pre-service (without extensive experience) and in-service students seeking professional credentials in public administration. The program provides classes in the evenings, special research projects, internships and graduate assistantships to meet these needs. The faculty combines academic expertise with "real-world" experiences to provide students with outstanding opportunities to connect knowledge with practice. The Master of Public Administration degree requires 36 graduate credit hours: 21 hours of core courses, a minimum of nine hours in a minor field, and the remaining hours from options A or B.

Admission

Students may be accepted into the M.P.A. Program with a baccalaureate degree regardless of major. To be admitted to the M.P.A. Program an application for admission must be completed and accepted by the Graduate School. Official transcripts of academic work and Graduate Record Examination (GRE) scores should be sent to the Graduate School.

In addition, please send the following materials to the M.P.A. Program Director: two current letters of recommendation from individuals who are familiar with your professional and/or academic background, an essay (300 to 500 words) stating your reasons for pursuing the M.P.A. degree (this also is used as a writing sample), and a resume to have relevant work experience considered.

Program Study

The core courses are PBA 500, PBA 505, PBA 510, PBA 515, PBA 520, PBA 525, and PBA 530. The approved minors in the M.P.A. Program are communication, counseling, criminal justice, forestry, general business, management, psychology, social work and sociology. There are currently two options within the program that allow students to demonstrate their capacity for applied research. Option A requires students to take PBA 575 plus one of the following: an additional course in their minor field, an elective graduate course or an internship (PBA 599). Option B requires students to research and write a thesis by completing PBA 589 and PBA 590.

Minor

A graduate student admitted to another program at SFA can minor in public administration. The public administration minor consists of a minimum of nine hours of public administration (PBA) courses numbered 500 and above. PBA 500 is required for the minor.

Graduate Assistantships

The M.P.A. Program offers a limited number of graduate assistantships. Graduate assistantships are assigned research projects with faculty members in the Department of Political Science, Geography, and Public Administration. Graduate assistants are considered half-time employees and are expected to work 20 hours per week. A student interested in a graduate assistantship should contact the M.P.A. Program director well in advance of the semester in which he or she is interested in the assistantship.

Master of Interdisciplinary Studies

The department is actively involved in graduate programs leading to the Master of Interdisciplinary Studies degree. It offers an academic specialty option for graduate students who elect to pursue the M.I.S. degree. It also offers support courses for graduate students who elect another option as their specialty. Persons interested in political science or geography as an option for the M.I.S. should consult the chair of the department, the geography coordinator, or the M.P.A. director.

Graduate Faculty

Professor

Ronald G. Claunch, Ph.D., University of Missouri, Urban Governments,
American Politics, Comparative State Politics

Associate Professors

Charles F. Abel, Ph.D., University of Maryland, Public Administration,
Constitutional Law

Kenneth E. Collier, Ph.D., University of Texas, American Politics,
Political Behavior, Public Opinion

Richard J. Herzog, Ph.D., University of New Orleans, Public Administration, Public
Policy

Assistant Professors

Frank Codispoti, Ph.D., Michigan State University, American Politics,
Political Theory

Hans J. Hacker, Ph.D., Ohio State University, Public Law, Judicial Process, Constitutional
Law

Julie Harrelson-Stephens, Ph.D., University of North Texas, International Politics,
Political Economy and Human Rights

Unna Lassiter, Ph.D., University of Southern California, Political and Cultural
Geography

James Lowry, Ph.D., University of Arizona, Regional and Cultural Geography

Michael P. Tkacik, Ph.D., University of Maryland, International Law and Relations

Robert O. Yowell, Ph.D., University of Kansas, American Government, Congress,
Interest Groups and Political Parties

Courses in Political Science (PSC)

Unless otherwise indicated, courses are three semester hours credit.

- 402 American Constitutional Law: Structure and Powers.** The federal constitutional provisions concerning organization and powers in the federal system. Major Supreme Court cases. Prerequisite: Graduate standing.
- 403 American Constitutional Law: Individual and His Rights.** The federal constitutional provisions concerning the individual and his rights. Major Supreme Court cases. Prerequisite: Graduate standing.
- 412 Political Behavior.** Study of the determinants of political activity: who participates, how politicians are recruited and political socialization. Prerequisite: Graduate standing.
- 433 American Political Thought.** The development of American political ideologies. Ideas of leading American political thinkers and movements from colonial times to the present. Prerequisite: Graduate standing.
- 441 International Law.** The nature, sources and application of the law of nations. Prerequisite: Graduate standing.
- 444 Management of Public Organization** - The behavior, structures, environment, culture, group dynamics, and development of public sector organizations from a managerial perspective. Prerequisites: PSC 344 or instructor approval.
- 445 Policy Analysis** - Study of analytical tools necessary for evaluating public policies and problems. Suggested background: PSC 344.
- 446 Topics in Public Administration.** Study of selected subject areas in contemporary public administration with an emphasis on practical skills and field experiences. Sample topics: ethics, conflict resolution, administrative law and advanced topics in public policy. May be repeated one time with a change of topic for a total of six hours credit. Suggested background: PSC 344.
- 447 Legislative Process.** Structure, powers, organization, political control and procedure of Congress, state legislatures and local legislative bodies. Prerequisite: Graduate standing.
- 448 Executive Process.** Development of the power and influence of the president and other American executives; producers and politics in the executive process. Prerequisite: Graduate standing.
- 449 Urban Affairs.** Analysis of urban setting, growth and change, legal framework, participation and politics, reform, administration, and finance. Prerequisite: Graduate standing.
- 450 Urban Political Problems.** Analysis of such contemporary urban political problems as crime and law enforcement, transportation, pollution, health, education, welfare and poverty, housing and urban renewal, planning and zoning. Prerequisite: Graduate standing.
- 470 Public Budgeting and Financial Administration** - The budgeting processes, types of budgets, the politics of budgeting, revenue systems, capital improvement planning, cash management, debt administration, purchasing, risk management, and financial control as practiced in local governments. Suggested background: PSC 344 or instructor approval.
- 575 Advanced Graduate Studies.** Individual study. May be repeated

under different topics.

576 Advanced Graduate Studies. Same as 575 for credit in a different topic.

589* Thesis Research. Prerequisite: Consent of adviser.

590* Thesis Writing. Prerequisite: Political Science 589 and consent of adviser.

** A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis prospectus has been approved.*

Courses in Geography (GEO)

Unless otherwise indicated, courses are three semester hours credit.

410 Remote Sensing. Two hours lecture and three hours laboratory per week. Analysis and interpretation of remote sensing images with emphasis upon the cultural and physical features and patterns found on all imagery. Suggested background: Nine semester hours of geography or related fields.

439 Urban Geography. Examines patterns found in cities, suburbs, exurbs and metropolitan regions. Emphasis on housing, land use, urban politics, urban models, impact on surrounding landscapes. Identifies form, function and classification systems for urban areas.

443 Meteorology. Fundamental physical processes producing the short-term patterns of temperature, moisture, atmosphere, circulation, and storms of the atmosphere. Suggested background: Nine semester hours of geography, including Geography 130. Same as FOR 443. Required field trips.

450 Area Studies - Physical, cultural, political, and economic characteristics of specified states and regions. Area may vary from continental scale to city scale.

475 Advanced Independent Studies in Geography. One to three semester hours. Credit determined by the amount and difficulty of the project undertaken. Individual instruction, conference and research for advanced students. Prerequisite: Junior standing and 12 hours of geography.

501 Seminar in Physical Geography. Intensive study of a selected aspect of the physical environment. Prerequisite: 12 semester hours in geography.

502 Seminar in Cultural Geography. Intensive study of a selected aspect of the cultural environment. Prerequisite: 12 semester hours in geography.

503 Seminar in Regional Geography. Intensive study of a selected region or state of the world. Prerequisite: 12 semester hours in geography.

504 Geographic Techniques. Intensive study of a selected geographic technique such as geographic information systems, remote sensing and aerial photo interpretation, or cartography and visualization.

575 Advanced Graduate Studies. Three hours conference per week. Individual instruction in selected phase of geography according to the

needs of the student. May be repeated under different topics.

576 Advanced Graduate Studies. Three hours conference per week. Same as 575 for credit in a different topic.

589 Thesis Research. Research for thesis. Grade withheld until completion of thesis. Prerequisite: Consent of adviser.

590 Thesis Writing. Writing of thesis. Grade withheld until completion of thesis. Prerequisite: GEO 589 and consent of adviser.6

DEPARTMENT OF
PSYCHOLOGY

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Graduate Advisers

John Anson, Verna Barron, Ray Eastman, Gary Ford, Theodore Joseph, Mark Ludorf, Lauren Scharff, Kandy Stahl, and Michael Walker.

Objectives of the Department

In its graduate program, the Department of Psychology seeks to prepare students for additional graduate work leading to the doctoral degree and/or for professional work at the M.A. level in various fields. The department welcomes graduate students who have no explicit career objectives in psychology.

Admission Requirements

Application deadlines: Fall semester-April 15
 Spring semester-September 15

In addition to satisfying general admission requirements shown elsewhere in this bulletin, the applicant must satisfy the departmental requirements shown below:

1. The applicant must have had, or must take as background work, undergraduate courses in introductory psychology, statistics and experimental psychology or their equivalents. In addition, the applicant must have completed an additional nine hours in social and behavioral sciences.
2. The applicant must have attained a minimum 3.00 overall GPA and a minimum factor score* of 1,300 for clear admission to the program. Applications who do not meet these minimum criteria will be considered on a case-by-case basis.

* Factor score = $(\text{GPA} \times 100) + \text{GRE combined score (Verbal + Quantitative)}$

3. The applicant should submit letters of recommendation, statements detailing undergraduate research and publications, and accounts of relevant work experience.

Graduate Assistantships

The department awards a number of 20 hour/week graduate assistantships each year. Interested applicants should submit an assistantship application form, at least three letters of recommendation, academic transcripts, copies of GRE test scores,

and the departmental information sheet well before the deadline of April 15 for fall enrollment and September 15 for spring enrollment.

For additional information, such as the amount of the stipends, contact Chair, Department of Psychology, P.O. Box 13046, SFA Station, Nacogdoches, Texas 75962-3046; phone: (936) 468-4402; e-mail: kstahl@sfasu.edu.

Graduate Program

Proposed Program

The proposed program is scheduled to begin in the fall 2006 term, pending final approval. Should approval not be granted, the current program, also detailed below, will remain in place.

The new program is designed to augment the credentials of persons who were near the top of the waiting list for admission to doctoral programs in psychology, but ultimately did not receive an offer. This one-year curriculum will increase individuals' chances of being accepted upon reapplication to doctoral programs by enabling them to earn grades in graduate-level courses and to gain valuable research and teaching experience.

Our degree plan also will interest persons who would like to earn a master's degree in psychology as a means of achieving their professional goals, such as acquiring solid research skills. We envision our curriculum being of considerable value to individuals currently in the workforce, who have had some course work in psychology (although not necessarily a psychology major) and would now like to enhance their professional skills and advancement potential. The new program can meet the needs of both those already pursuing careers and those attempting to gain admission to a doctoral program in psychology.

This is a non-thesis master's program. However, students who are not successful in gaining admission to a doctoral program in their first year of master's work may wish to continue for a second year to complete a formal thesis. Doing so may provide the added value necessary to achieve success on the next application attempt. Any student may remain for the second year. However, it is not required for the degree.

Applications will be considered for spring admission. However, students entering at that time must recognize that due to course prerequisites the program cannot be completed in one year. Rather, completion of the curriculum will require an additional spring semester.

Degree Candidacy

Admission to degree candidacy is a requirement for graduation as well as a prerequisite to enrollment in PSY 589 – Thesis Research and PSY 590 – Thesis Writing.

To be admitted to departmental degree candidacy students must meet the following requirements:

1. Achieve a grade of B or better on the final examination in PSY 501 – Psychological Statistics and PSY 517 – Ethics and Research in Psychology. Students who do not achieve such a grade may retake the final examination one time only to be administered on one of the two days preceding the spring semester. If the final exam is not passed at that time the student will not be allowed to continue in the program.
2. Achieve a minimum overall GPA of 3.00.

Curriculum

1-YR. DEGREE PLAN

Required Courses

- PSY 501 (4) – Psychological Statistics
- PSY 507 (4) – Experimental Design
- PSY 517 (4) – Ethics & Research In Psychology ^(A)
- PSY 523 (4) – Advanced General Psychology ^(B)
- PSY 550 (3) – Graduate Seminar ^(C) (9-12 Hours)
- PSY 585 (4) – Graduate Research Seminar ^(D) (4-8 Hours)

Elective Courses

- PSY 525 (4) – Teaching Seminar ^(E)

Total Hours = 36-37

Optional 2nd Year

- PSY 589 (3) – Thesis Research
- PSY 590 (3) – Thesis Writing

Total Hours = 42-43

Notes:

a: This course will be increased from a 3-hour to a 4-hour course to include more extensive coverage of research.

b: This course will be increased from a 3-hour to a 4-hour course to permit coverage of more subdisciplines of psychology.

c: The specific topic of this course will rotate among the various content areas of psychology for a more in-depth treatment than is possible in PSY 523. Topics may include but are not limited to learning/behaviorism, biopsychology, developmental, perception, cognition, industrial/organizational, social, personality, and psychopathology. If the student elects to take only nine hours of PSY 550, he or she must take eight hours of PSY 585, as well as PSY 525.

d: Students will engage in research development and may complete a project for conference or journal submission. If the student elects to take only four hours of PSY 585, he or she must take 12 hours of PSY 550, as well as PSY 525.

e: This course will be increased from a 3-hour to a 4-hour course, to include instruction on the use of technology in the classroom.

Given the preceding framework, the following annual course offerings would be implemented:

FALL	SPRING	SUMMER I	SUMMER II
501 (4)	507 (4)	550 (3)	550 (3)
517 (4)	523 (4)	550 (3)	
550 (3)	525 (4)		
585 (4)	585 (4)		

Graduate Program

Current Program

Three types of graduate program emphasis are available in psychology:

- A. General Experimental Emphasis (36 semester hours). Encourages innovative as well as more traditional experimental thesis projects. Students consult with graduate advisers representing areas of interest for their thesis. Goal is to prepare students for admission into a wide range of psychology doctoral programs.
- B. Clinical Emphasis (44-53 semester hours). For students aspiring to gain admission to doctoral programs in clinical psychology or work as M.A. level psychological associates in clinical settings. Refer to curriculum outlined below for available options.
- C. Industrial/Organizational Emphasis (42-51 semester hours). Prepares students for admission to doctoral programs in industrial/organizational psychology or to gain employment in business/industry settings at the M.A. level.

Degree Candidacy

Admission to departmental degree candidacy is a prerequisite to enrollment in PSY 519-Psychology Practicum, PSY 522-Psychology Research Practicum, and PSY 589-Thesis Research.

To be admitted to departmental degree candidacy students must meet the following requirements:

1. Complete the following academic core courses with a B average or better:

PSY 501 - Psychological Statistics	4 hours
PSY 507 - Experimental Design	4 hours
PSY 517 - Professional Issues	3 hours
One course from PSY 502, 503, 504, 505, 506, 508	<u>3 hours</u>
Total	14 hours
2. Submit a score of 540 or higher on the Psychology Subject Test of the Graduate Record Examination.
 Students who have not obtained a score of 540 or higher upon admission to the graduate program must register to take the Psychology Subject Test during their first semester of graduate work.
 If a student has not passed the Psychology Subject Test by the end of the first two semesters of graduate work, he/she will be advised by the graduate program coordinator or the chair of the department regarding remediation courses needed to pass the Psychology Subject Test and continue in the psychology graduate program.
3. Students must have an overall GPA of 3.00 or higher in all graduate course work completed at the time of applying for departmental degree candidacy. Any graduate course in which a student has a withheld grade (WH) will be regarded as having zero grade points, and the credit hours will be averaged with all completed credit hours to determine the overall graduate GPA.

Additional Requirements for the M.A. Degree in Psychology

A. Degree requirements for the General Experimental Emphasis

General Degree Requirements: 18 hours

PSY 500(1)

PSY 501(4)

PSY 507(4)

PSY 517(3)

PSY 589

PSY 590

Additional Requirements: Nine hours from three of the following courses:

PSY 502, 503, 504, 505, 506, 508, 510, 514

Electives or Formal Minor: Nine hours

Total Credit Hours for Degree Program: 36 hours

B. Degree Requirements for the Clinical Emphasis

General Degree Requirements: 18 hours

PSY 500(1)

PSY 501(4)

PSY 507(4)

PSY 517(3)

PSY 589

PSY 590

Clinical Requirements: 14 hours

PSY 502(3)

PSY 509(4)

PSY 513(4)

PSY 518(3)

Additional Requirements: Six hours from two of the following courses:

PSY 503, 504, 505, 506, 508, 510, 514

Electives or Formal Minor: Six-15 hours

(Could include completing practicum sequence below)

Additional Requirements for students interested in taking PSY 519 as an

Elective: Six hrs.

PSY 511(3)

PSY 519(3) – Prerequisite: PSY 511

Total Credit Hours for Degree Program: 44-53 hours

C. Degree Requirements for the Industrial/Organizational Emphasis

Prerequisite for Admission:

PSY 133, 275, 330, 341, 420 or their equivalents

(deficiencies completed as stem work)

General Degree Requirements: 18 hours

PSY 500(1)

PSY 501(4)

PSY 507(4)

PSY 517(3)

PSY 589

PSY 590

Industrial/Organizational Requirements: 12 hours

PSY 502(3)

PSY 510(3)

PSY 514(3)

PSY 490(3)

Additional Requirements: Six hours from two of the following courses:

PSY 503, 504, 505, 506, 508

Industrial/Organizational Elective Options: Six hours (minimum)

Industrial:

PSY 509(4)

PSY 513(4)

PSY 522(3)

PSY 575(3)

Organizational:

PSY 515(3)

PSY 522(3)

PSY 575(3)

Optional Formal Minor Outside Psychology: Nine hours

Total Credit Hours for Degree Program: 42-51 hours

Facilities for Work

The department's facilities consist of more than 20,000 square feet including space for human research in sensory psychophysics and psychophysiology, behavioral, cognitive, social, developmental, personality, and industrial/organizational psychology.

The department has an instructional computing classroom consisting of 21 networked microcomputers and supporting hardware and software for computing across the psychology curriculum. The department also has a Cognitive Psychology Laboratory equipped with PC computers. The renovated Psychology Clinic, which is equipped with PC computers, provides separate space for conducting psychological research and for providing psychological services.

Most laboratory areas, classrooms and graduate assistant offices contain microcomputers many of which are networked and support research and instruction.

Graduate Faculty

Professors

John E. Anson, Ph.D., University of Alabama, Learning, Behavior Modification

Gary G. Ford, Ph.D., Fordham University, Clinical, Personality

Heinz A. Gaylord, Ph.D., University of Texas, Physiological, Comparative, History and Systems

Mark R. Ludorf, Ph.D., University of Kansas, Cognitive, Quantitative

Lauren F. V. Scharff, Ph.D., University of Texas, Visual Perception and Sensory

Associate Professors

Verna L. Barron, Ph.D., Oklahoma State University, Clinical Psychology, Assessment, Medical Psychology

Raymond L. Eastman, Ph.D., University of Alabama, Clinical, Social, Community

Kandy J. Stahl, Ph.D., University of Nebraska, Clinical and Pediatric Psychology and Family Issues

Michael E. Walker, Ph.D., University of Mississippi, Clinical Psychology, Child and Family Issues

Assistant Professor

Theodore D. Joseph, Ph.D., Claremont Graduate College, Social Psychology, Racial Profiling, Immigrants' Adjustment Behaviors

Courses in Psychology (PSY)

Unless otherwise indicated, courses are three semester hours credit.

- 500 Psychology Proseminar.** Required one-hour weekly meeting. Members of psychology graduate faculty discuss their professional backgrounds and research interests. Pass-Fail. Prerequisite: Admission to psychology M.A. degree program.
- 501 Psychological Statistics.** Four semester hours, four hours lecture per week. Hypothesis testing using one, two, and n sample parametric techniques; individual and combined comparison among means; and data processing in the solution of multivariate problems. Prerequisite: Statistics (psychological or math) or its equivalent. Lab fee: \$20.
- 502 Personality.** Exposure to major theoretical approaches to personality (e.g., psychodynamic, behavioral, cognitive, gestalt, humanistic, existential, trait), with a focus on theory construction issues and how they are addressed in each model. Personality research methods and ethical issues relevant to theory construction, personality assessment and research. Prerequisites: 12 hours of psychology, or the equivalent and consent of instructor.
- 503 Learning.** Behavioral and cognitive interpretations of performance change. Examination of experimental evidence from animal and human research. Prerequisites: Perception or its equivalent plus nine hours in psychology.
- 504 Biopsychology.** Examination of current knowledge on how psychological processes such as development, perception, learning, memory and cognition, states of consciousness, and the emotions, both normal and abnormal, relate to underlying genetic, biochemical, and physiological properties of the nervous system in humans and other animal species. Prerequisites: Undergraduate biopsychology or equivalent plus nine hours in psychology or biology, or consent of instructor.
- 505 Developmental Psychology.** Major methods and theories with emphasis on human development from interdisciplinary viewpoints. Skills and information useful in applied settings with children and families. Prerequisites: Developmental psychology or equivalent plus nine hours of advanced psychology, or consent of instructor.
- 506 Perception.** In-depth, information processing analysis of human visual perception based on converging physiological and psychophysical evidence. Prerequisites: Undergraduate experimental psychology and perception or consent of instructor.
- 507 Experimental Design.** Four semester hours, four hours lecture per

week. Examination of pitfalls in experimental design including ways to correct inappropriate hypotheses, experimenter bias and faulty inferences. Critical look at the test of significance and proper and improper applications of analyses of variance. Prerequisites: Undergraduate experimental psychology and statistics or their equivalents. Lab fee: \$20.

- 508 Cognitive Psychology.** Examination of basic and advanced topics in cognitive psychology including sensory memory, pattern recognition, divided and elective attention, traditional and connectionist models of memory, mental imagery, semantic memory, and language comprehension. Prerequisites: Undergraduate experimental psychology or its equivalent and consent of instructor.
- 509 Intellectual Assessment.** Four semester hours, three hours lecture and two hours laboratory per week. Training in test administration and clinical interpretation of major intelligence tests for adults and children, including Wechsler, Stanford-Binet and Kaufman. Review of general principles of tests and measurements included. Prerequisites: Admission to clinical training and/or consent of instructor. Lab fee: \$25.
- 510 Personnel Psychology.** Survey of topics covering applications of psychological theory and practice to human resource management issues. Topics include personnel recruitment, assessment, selection and placement. Methods of job/task analysis, training needs assessment, training program evaluation, and worker performance evaluation also included. Prerequisites: 12 hours in psychology or a related field and/or consent of instructor.
- 511 Introduction to Psychotherapy.** Introduction to a variety of psychotherapeutic approaches employed by clinicians. Exposure to both theoretical and practical aspects of providing therapy to clients. Goal is to begin to learn, practice and refine skills needed in therapeutic situations. Class discussion and practice assignments provide an avenue to begin to develop these skills. Prerequisites: Graduate personality and 12 hours of graduate psychology course work.
- 512 Child and Family Psychotherapy.** Review and examination of history, current theories, methods, and applications of child, couple and family psychotherapy. Particular attention paid to play therapy and family interviewing and intervention techniques. Prerequisites: Introduction to psychotherapy and consent of instructor.
- 513 Personality Assessment.** Four semester hours, three hours lecture, two hours laboratory per week. Administration, scoring, and interpretation of major personality tests (including MMPI and Rorschach) and clinical interviewing. Prerequisites: Admission to clinical training and/or consent of instructor. Lab fee \$20.
- 514 Organizational Psychology.** Review and examination of the field of organizational psychology. Topics include structure, communication, leadership, motivation, and work teams. Special emphasis placed on organizational theory and research. Prerequisite: Admission to graduate training or consent of instructor.
- 515 Groups at Work.** Examination of various groups including families,

juries, work teams, and therapy groups. Topics include group formation, social influence, power, performance, decision-making, and conflict. Special emphasis placed on theory, research and application of group processes. Prerequisite: Admission to graduate training or consent of instructor.

- 517 Professional and Ethical Issues in Psychology*.** Standards, legal issues, and ethical responsibilities pertinent to the psychologist in academic, private agency, and laboratory settings. Prerequisite: Admission to graduate training or consent of instructor. * In the new curriculum, this course will be re-titled Ethics & Research in Psychology and will be increased to a four-credit-hour course. Description to be as follows: Standards, legal issues, and ethical responsibilities pertinent to the psychologist in academic, private agency and laboratory settings. Prerequisite: Admission to graduate training or consent of instructor.
- 518 Psychopathology.** Review of research regarding diagnosis and treatment of mental disorders from the current DSM organization perspective including review of substance abuse and psychotropic medications. Prerequisites: Abnormal psychology or its equivalent, intellectual assessment or personality assessment and consent of instructor.
- 519 Psychology Practicum.** Supervised experience in psychology for a total of 150 hours with a minimum of one hour individual supervision per week from a licensed psychologist and two hours group supervision. First practicum will involve a resident placement supervised by members of the clinical faculty. Pass-Fail/permanent WH. Prerequisites: Admission to departmental degree candidacy, consent of both Clinical Training Committee and practicum supervisor and minimum grade of B in intellectual assessment, introduction to psychotherapy and personality assessment. Lab fee \$30.
- 521 Positive Psychology: Science and Application.** Introduction to psychology paradigms for the millennium focusing on strengthening and optimizing positive dimensions of personal life, particularly in the realms of work, personal relationships and leisure. Focus on enhancing behaviors designed to improve quality of life. Prerequisites: Advanced standing and consent of instructor.
- 522 Psychology Research Practicum.** Supervised experience for a total of 150 hours per semester in either an organizational or academic research setting involving 10 hours per week with minimum of one hour individual supervision provided by graduate faculty representing respective student. Practicum content area. Prerequisites: Admission to departmental degree candidacy, completion of an academic course and an independent study or independent research project in area of research practicum, and consent of practicum supervisor and chair of psychology.
- 523 Advanced General Psychology*.** Theory and research related to social psychology, developmental psychology, learning, and perception. Other content areas also examined. Prerequisites: Admission to graduate

training or consent of instructor. * In the new curriculum, this course will be increased to a four-credit-hour course. Description to be as follows: Theory and research related to social psychology, developmental psychology, learning, and perception. Other content areas also examined. Prerequisites: Admission to graduate training or consent of instructor.

- 524 Advanced Applied Psychology.** Examination of theories and research related to areas of applied psychology, including but not limited to social/personality, adjustment and abnormal behavior, including prevalence of abnormal behavior classification and diagnosis, etiology of psychological disorders, and a variety of treatment methods. Prerequisite: Admission to graduate training or consent of instructor.

- 525 Teaching Seminar*.** Issues include ethics, syllabus and exam construction, classroom management, and theories of collegiate teaching. Students present a lecture applying issues and using tools of information technology. Prerequisite: Clear admission to psychology M.A. degree program. * In the new curriculum, this course will be increased to a four-credit-hour course. Description to be as follows: Issues include ethics, syllabus and exam construction, classroom management, and theories of collegiate teaching. Also includes discussion on skills involved in teaching with technology. Students present a lecture applying issues and using tools of information technology. Prerequisites: Clear admission to psychology M.A. degree program.

- 527 Advising/Technology.** Instruction on skills involved in advising and teaching with technology. Discussion of issues related to advising followed by participation in the advising process. Discussion and experience in use of various forms of technology in the classroom and distance education. Prerequisites: Advanced general psychology, advanced applied psychology, teaching seminar, and consent of instructor.

- 530 History and Systems of Psychology.** Survey of historical background of psychology emphasizing philosophical origins and evolution of the psychological point of view. Contributions of major schools of psychology to modern psychology also covered. Prerequisite: 12 hours of psychology including general psychology.

- 540 Human Assessment.** Survey of psychometric theory, principles and applications. Test development and application including methods of assessing test consistency and validity. Techniques of assessing intelligence, aptitudes, achievement, interest, attitude, personality, and other constructs as well as cultural and legal/ethical issues. Prerequisites: statistics plus nine advanced hours in psychology, management, counseling, education, social work, or equivalent.

- 550 Seminar in Psychology*.** One-three semester hours credit. Current topics in psychology. Topics and credit hours announced at each registration period. May be repeated for a maximum of six hours credit when topics are different. Prerequisites: Admission to graduate training and consent of instructor. * In the new curriculum, this course will be set as a three-credit-hour course. Description to be as follows: Current topics in psychology. Topics announced at each registration period, providing more in-depth coverage of a specific content area in psychology. May

be repeated for a maximum of 12 hours credit when topics are different. Prerequisite: Admission to graduate training or consent of instructor.

575 Advanced Graduate Studies. One-four semester hours credit. Individual study: library research or laboratory training with term report on assigned problem. Not to be used as substitute for thesis credit. May be repeated under different topics.

576 Advanced Graduate Studies. Same as 575 but for three semester hours credit under different topics.

585 Advanced Independent Research*. Three hours conference per week. Individual study and/or research with a member of the graduate faculty. Not to be used as substitute for thesis credit. May be repeated for credit one time. Prerequisites: Nine hours of psychology or related field and consent of instructor. * In the new curriculum, this course will be re-titled Graduate Research Seminar and will be increased to a four-credit-hour course. Description to be as follows: Students directed in development and conduct of a research project. Group discussion and feedback. Prerequisite: Admission to graduate training or consent of instructor.

589* Thesis Research. Three-nine semester hours credit. Research for thesis. Grade withheld until completion of thesis. Prerequisites: Admission to departmental degree candidacy and consent of thesis director.

590* Thesis Writing. Three-nine semester hours. Writing of thesis. Grade withheld until completion of thesis. Prerequisites: Psychology 589 and consent of thesis director.

** A student must register for 589 and 590 each semester or summer session until the thesis is completed. However, a student may not register for 590 until the thesis proposal has been approved.*

DEPARTMENT OF SOCIOLOGY

CHAIR TO BE NAMED

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www.sfasu.edu/soc

Departmental Objectives

The Department of Sociology offers graduate courses to serve two major purposes. They are to provide (1) an academic specialty option for the Master of Interdisciplinary Studies (M.I.S.) degree; and (2) a service function to other graduate students who desire basic skills in sociology.

Graduate Program

The department does not offer a graduate degree in sociology. A graduate minor in sociology consists of a minimum of nine semesters of sociology. Fewer than nine semester hours are regarded as electives.

Graduate Faculty

Regents Professor

Robert Szafran, Ph.D., University of Wisconsin, Methodology, Population, Work

Professors

Ray L. Darville, Ph.D., University of North Texas, Marriage and Family,
Methodology, Data Analysis

Thomas W. Segady, Ph.D., University of Denver, Theory, Social Psychology

Associate Professors

J.B. Watson Jr., Ph.D., University of North Texas, Gerontology, Medical, Death
and Dying

Assistant Professors

Karol Chandler-Ezell, Ph.D., University of Missouri, Cultural Anthropology,
Medical Anthropology, Magic and Religion

Jerry Tyler, Ph.D., Louisiana State University, Theory, Juvenile Delinquency, Latin
America

Jerry Williams, Ph.D., Kansas State University, Environment, Gerontology,
Methodology, Social Class

Courses in Sociology (SOC)

Unless otherwise indicated, courses are three semester hours credit.

471 The Development of Sociological Theory

478 Methods in Social Research

479 Data Analysis

575 Advanced Graduate Studies. Individual studies in selected areas of sociology. May be repeated under different topics.

Courses in Anthropology (ANT)

Unless otherwise indicated, courses are three semester hours credit.

440 Field Methods of Archaeology. Three or six semester hours.

493 Special Studies of Latin America

THE COLLEGE OF
SCIENCES AND MATHEMATICS

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DEPARTMENT OF
BIOLOGY

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D. BRENT BURT, GRADUATE PROGRAM ADVISER

Science 222

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Objectives of the Department

The Department of Biology requires that its graduate majors have a strong undergraduate background in the biological sciences. In addition to furthering the professional status of its graduate students, the Department of Biology seeks to imbue them with a strong spirit of inquiry. As these students strengthen their knowledge and appreciation of the living world they are encouraged to make their own contribution to man's understanding of the world.

Admission Requirements

In addition to satisfying the general admission requirements listed elsewhere in this bulletin, graduate biology majors must have completed at least 18 semester hours of biology, including Biology 131, 133 and 341 or equivalents. In addition, the student should have completed one year of general chemistry and mathematics. All specific course prerequisites for graduate courses must be completed.

All biology minor students, and others who wish to take graduate courses, must have completed Biology 131 and 133 or equivalents, and also specific course prerequisites for the graduate courses desired.

The Graduate Programs in Biology

The biology major student may designate general biology as an emphasis, in which case graduate courses may be selected from both biological areas (zoology and botany); and if students desire a minor or minors, they may select courses from other departments. If a graduate emphasis is chosen in zoology or botany, rather than in general biology, a minor may be the remaining biological area.

Option I—Master of Science Degree with Thesis

The thesis program is available primarily for those who plan to continue their graduate work beyond the master's degree, or who plan to enter positions involving research or scientific writing. Thesis research is offered in the fields of interest indicated in the list of graduate faculty shown elsewhere in this bulletin. The thesis should involve

at least six months of research. A qualifying exam will be given to each student at the end of their first or beginning of their second semester. The exam will be presented in an oral format and will probe the student's biological knowledge base to determine whether he or she has the background to conduct their proposed research. Failed exams can be repeated once. However, students must pass the exam no later than the end of their second full semester. On completion of the thesis and other requirements for the degree, the student will be given an oral examination primarily over the thesis by members of the committee and other members of the graduate faculty suggested by the dean of the graduate school. For further details concerning thesis requirements, refer to the section of this bulletin that describes the overall procedure for the preparation of the thesis. Except for those who complete their entire graduate program during the summer, each student must successfully present a seminar over his/her thesis research. Only three semester hours of Advanced Graduate Studies (Biology 575) may be taken without permission of the departmental chair.

Option 2-The Master of Science Degree Without Thesis

The non-thesis program is available for those who plan no further work beyond the master's degree, or who do not plan careers in research or scientific writing. The qualifying exam is detailed in option 1 above. This exam's intent differs for the non-thesis student. Exam questions are designed to determine the student's current biological knowledge and to assist the committee in directing the student's further course work so he or she may succeed in his or her chosen career path. The oral examination for the non-thesis student usually deals with the student's course work interest, with at least five examiners present. The student must successfully present a seminar over an appropriate topic approved by his/her adviser. Three additional hours of Advanced Graduate Studies may be taken as Biology 576. Exceptions require permission of departmental chair.

Option 3-Minor or Electives in Biology

Students may take courses in biology for which they have satisfied the prerequisites. A minor in biology consists of nine or more semester hours chosen from 400- and 500-level courses, six of which should be at the 500-level. The minor student should consult with the departmental graduate adviser about course work.

Option 4-Postgraduate Work in Biology

A student with a bachelor's or master's degree and with the proper course prerequisite may take additional work in biology. The graduate adviser will assist the student in choosing courses that will increase working ability in biology. Postgraduate work is recommended for junior college as well as other teachers. It is recommended that the student spend a year on campus to gain a wider selection of courses and more closely supervised research experiences.

Facilities for Graduate Work

The department has a number of special facilities in which graduate students study and carry on their research. These facilities include a fully equipped electron microscope laboratory, a modern aquatic biology laboratory, a new greenhouse, a herbarium and an entomarium.

Reference collections of invertebrates, birds, mammals, reptiles, amphibians and fishes are maintained for studies in these respective areas.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department. For information and applications, contact the chair of the department.

Graduate Faculty

Professor

William W. Gibson, Ph.D., Kansas State University, Entomology, Invertebrate Zoology

Associate Professors

D. Brent Burt, Ph.D., University of Arizona, Ornithology, Animal Behavior and Evolution

Alexander Y. Karatayev, Ph.D., Belarussian State University, Aquatic Ecology

Robert S. Stewart, Ph.D., University of California, Davis, Microbiology, Immunology, Virology

Josephine Taylor, Ph.D., University of Georgia, Plant Pathology, Mycology, Ultrastructure

James VanKley, Ph.D., Purdue University, Plant Taxonomy, Plant Ecology

Stephen C. Wagner, Ph.D., Clemson University, Microbial Ecology, Cell Biology, and Industrial Microbiology

Robert J. Wiggers, Ph.D., Texas A&M University, Molecular Genetics

Assistant Professors

Dennis A. Gravatt, Ph.D., Louisiana State University, Plant Physiology and Ecophysiology

Saad A. Hassan, M.D., Ph.D., University of North Texas, Microbiology

J. Kevin Langford, Ph.D., Medical College of Wisconsin in Milwaukee, Developmental Biology

Donald B. Pratt, Ph.D., Iowa State University, Botany, Plant Systematics and Evolution

Courses in Biology (BIO)

Unless otherwise indicated, courses are three semester hours credit. All graduate biology majors are required to attend and participate in biology seminar every semester whether or not they are enrolled for credit. Travel fees may be required for courses with field trips.

401 Plant Anatomy. Two hours lecture, three hours lab per week. The anatomy of the seed plants. Prerequisite: Three semesters of biology. Lab fee \$30.

408 Pathogenic Bacteriology. Four semester hours, three hours lecture, four hours lab per week. Basic survey of medically important bacteria. Includes mechanisms of pathogenesis, collection and transport of specimens, initial specimen processing, and identification of isolates by classical, automated, and molecular techniques. Prerequisite: BIO 309. Lab fee \$30.

410 Fundamentals of Immunology. Four semester hours, three hours lecture, four hours lab per week. Basic survey of the immune system with focus on the human and mouse models. Covers the origin and differentiation of the hematopoietic system, antibody structure and

- function, basic serologic techniques such as ELISA, fluorescence microscopy, agglutination, precipitation, and gel diffusion. Prerequisites: BIO 309 and BIO 341. Lab fee \$30.
- 420 Virology.** Four semester hours, three hours lecture, four hours lab per week. Basic study of viruses with laboratory. Covers viral structure, genome organization, replication strategies, and medical implications of infection. The laboratory includes bacteriophages, animal and plant viral propagation, basic tissue culture, PCR for viral detection, and fluorescence and electron microscopy for viral identification. Prerequisites: BIO 309 and BIO 341. Lab fee \$30.
- 430 Invertebrate Natural History.** Two hours lecture, three hours lab per week. The invertebrate animals. Laboratory emphasis is on recognition. Insects and parasites are treated briefly. Prerequisite: 11 hours of biology. Lab fee \$10.
- 439 Parasitology.** Four semester hours, three hours lecture, three hours lab per week. Basic survey of parasites primarily from the human pathogen perspective. Includes identification and pathogenesis of protozoan, nematode and cestode parasites. Lab covers taxonomic identification of preserved and fresh clinical samples. Prerequisite: BIO 133. Lab fee \$30.
- 501 Advanced Cellular Biology.** Three semester hours, three hours lecture per week. Structure and function of eukaryotic cells. Topics include architecture of the cell and function of cellular components, mechanisms of gene expression, the cytoskeleton, interactions between the cell and the extra-cellular matrix, regulation of cell growth, differentiation, and division, and mechanisms of cellular transport. Prerequisite: BIO 341 and six hours of general chemistry.
- 502 Aquatic Vascular Plants.** Two hours lecture, three hours lab per week. Identification and ecology of aquatic and wetland plants. Emphasis will be placed on identification of native wetland plants, characteristics of wetland communities, adaptations of wetland plants to the wetland environment, and wetland management.
- 503 Plant Ecology.** Two hours lecture, three hours lab per week. The study of plant communities and the factors governing their composition and distribution. Field trips required. Prerequisite: 12 semester hours of biology. Lab fee \$20.
- 504 Animal Ecology.** Two hours lecture, Three hours lab per week. Studies concerned with the relationship of animals to their environment. Field trips required. Prerequisite: 12 semester hours of biology. Lab fee \$10.
- 505 Experimental Plant Taxonomy.** Two hours lecture, three hours lab per week. The study of the variation of plants, their phylogenetic relationships and classifications. Field trips required. Prerequisite: 12 semester hours of biology. Lab fee \$10.
- 506 Comparative Animal Physiology.** Three semester hours, three hours lecture per week. A comparative examination of basic physiological principles common to all animals. The course will include basic physical and chemical processes, detailed consideration of organ system, and an integrative approach to understand how animals meet the demands

placed upon them. Physiology at the level of the organism, its evolution, and its interactions with the surrounding environment will be emphasized. Prerequisites: BIO 241 and graduate standing.

507 Behavioral Ecology. Three semester hours, three hours lecture per week. The study of how behaviors influence survival and reproduction of individuals in different ecological settings. Prerequisite: Graduate standing or permission of instructor.

508 Microbial Ecology. Two hours lecture, three hours lab per week. Microbes in the ecosystem including their relationship to soil, water, sewage, air, and food. Prerequisite: 12 semester hours of biology, including Biology 309 or equivalent. Lab fee \$30.

510 Cytogenetics. A study concerned with chromosome behavior, changes in chromosome numbers and structure and their genetic implications. Prerequisite: Biology 341 or 320.

511 Phylogenetics. Three semester hours, three hours lecture per week. Examination of the logic, assumptions and methods used to reconstruct and evaluate the strength of evolutionary trees (phylogenies). Examination of the methods used to test evolutionary hypotheses using phylogenies. Prerequisite: Graduate standing in biology or permission of instructor.

512 Field Biology. Six semester hours, five-weeks summer field trip. Quantitative studies of ecological communities. Analysis of biodiversity and ecological relationships through participation in field research projects. Possible topics include population, community, ecosystem, evolutionary, and/or behavioral ecology. Student will learn to analyze data using proper statistical design and appropriate computer software. Transportation expenses will be required. Lab fee required. Prerequisites: 18 hours of biology.

513 Organic Evolution. A study of the philosophy, methodology and application of phylogenetics to studies of evolutionary relationships among taxa and analyses of evolutionary patterns and processes. Prerequisites: Graduate standing in biology and permission of instructor.

514 Zoogeography. The influence of ecology, climate and geography on the distribution of animals during geologic and present times; emphasis on the continental and worldwide distribution of major vertebrates and its relevance of phylogeny. Prerequisite: 12 semester hours of biology.

515 Special Topics In Animal Physiology. An intensive study of some phase of animal physiology. May be repeated once for credit with different topic. Prerequisite: 12 hours of biology including Biology 327 or 406 (or equivalent).

520 Phycology. Two hours lecture and three hours lab per week. A study of the algae, their structure, function, life cycles and ecology. Prerequisite: 12 semester hours of biology, including Biology 251. Lab fee \$130.

521 Morphology of the Seed Plant. Two hours lecture, three hours lab per week. The higher vascular plants with emphasis on living gymnosperms and angiosperms and their evolutionary significance. Prerequisite: 12

- semester hours of biology including Biology 251. Lab fee \$10.
- 522 Plant Geography.** Three hours lecture per week. Reproduction, dissemination, migration and the uneven distribution of plants in North America. Prerequisite: 12 semester hours of biology, forestry or agriculture
- 523 Advanced Plant Physiology.** Four semester hours, three hours lecture, three hours per week. Advanced study of plant metabolic processes with emphasis on respiration, photosynthesis and plant-water relations. Prerequisites: Graduate standing in biology and permission of instructor. Lab fee \$30. Co-requisite: BIO 523L.
- 524 Advanced Studies in Plant Pathology.** Three semester hours, three hours lecture, three hours lab per week. The principles of plant pathology. A survey of fungal, bacterial, nematode and viral diseases of plants with an emphasis on current research methods in plant pathology. Prerequisites: Three semesters of biology, forestry, or horticulture and permission of instructor. Lab fee \$30.
- 525 Industrial Microbiology.** Two hours lecture, three hours lab per week. The study of microbial organisms in industrial processes. Prerequisite: 12 semester hours of biology, including Biology 309 or equivalent. Lab fee \$30.
- 530 Advanced Techniques in Immunology.** Three semester hours, nine hours laboratory per week. A laboratory-only course covering state-of-the-art and emerging methods and techniques in immunology. Includes vaccine and monoclonal antibody production, assays for cytokines, cell immortalization, antibody engineering, genetic manipulation of cell lines, and flow cytometry. Prerequisites: BIO 341 and 410 (or equivalent). Lab fee \$30.
- 531 Advanced Techniques in Virology.** 3 semester hours, 9 hours laboratory per week. A laboratory-only course covering more advanced and involved methods as well as some state-of-the-art and emerging techniques. Includes in vivo methods such as egg culture, PCR amplification of both DNA and RNA viral genomes, vector design and engineering, and genome sequencing. Prerequisites: BIO 341 and 420 (or equivalent). Lab fee \$30.
- 532* Advanced Molecular Biology.** Three semester hours, three hours lecture per week. The structure, function, and organization of DNA. Mechanisms of DNA replication, transcription and translation. Processes involved in regulating gene expression and protein modification and routing. Prerequisites: BIO 341, two semesters of chemistry and permission of instructor.
- 533 Advanced Ornithology.** Four semester hours, three hours lecture, three hours lab per week. Classification, distribution, ecology and evolution of birds. Emphasis on identification of local species in lab. Field trips required. Requires outside readings and/or research projects. Prerequisites: Three semesters of biology and permission of instructor. Travel fee required. Lab fee \$20.
- 535 Graduate Plant Systematics.** Three semester hours, two hours

lecture, three hours lab per week. Introduction to the science of naming, classifying and identifying plants. Emphasis on collecting and identifying plants, plant family characteristics, current thought in classification and systematics, and species as indicators of natural habit types. Students will develop an independent field-based research project as part of the course. Lab fee \$20. Prerequisites: 18 hours of biology and permission of instructor.

536 Advanced Mammalogy. Four semester hours, three hours lecture, three hours lab per week. Classification, distribution, ecology and evolution of mammals. Emphasis on natural history and identification of regional species in lab. Field trips required. Requires outside readings, papers and/or research projects. Prerequisites: Four semesters of biology and permission of instructor. Lab fee \$20.

537 Advanced Herpatology. Four semester hours, three hours lecture, three hours lab per week. Classification, distribution, ecology and evolution of amphibians and reptiles. Emphasis on natural history and identification of regional species in lab. Field trips required. Requires outside readings, papers and/or research projects. Prerequisites: Three semesters of biology and permission of instructor. Lab fee \$20.

538 Advanced Ichthyology. Three semester hours, two hours lecture, three hours lab per week. Classification, distribution, ecology and evolution of fish. Emphasis on natural history and identification of regional species in lab. Field trips required. Requires outside readings, papers and/or research projects. Prerequisites: Three semesters of biology and permission of instructor. Lab fee \$20.

540 Clinical Pathology Laboratory Operations. A survey of the technical and managerial aspects of running a medical laboratory in clinical pathology. This includes quality control and improvement, CLIA 88 and other legislative concerns, workload accountability, accreditation, federal and state inspections, personnel management and ISO 9000 standards. Prerequisites: Two upper division biology courses with labs.

545 Advanced Developmental Biology. Three semester hours, three hours lecture per week. Fundamental mechanisms of embryonic development. The molecular, cellular and tissue interactions that direct development of vertebrate and invertebrate embryos. Prerequisite: BIO 241 and permission of instructor.

549 Advanced Histology. Four semester hours, two hours lecture, three hours lab per week. The microscopic structure of vertebrate tissues and organs, and correlation with their origin and function in the adult body. Offered in fall only. Prerequisites: BIO 241 and permission of instructor. Lab fee \$30.

550 Advanced Limnology. Three semester hours, two hours lecture, three hours lab per week. Study of the biological, chemical, and physical characteristics of freshwater environment. Field trips required. Prerequisites: Four semesters of biology and permission of instructor. Lab fee \$30.

552 Experimental Design and Analysis. Two hours lecture, three hours lab per week. Includes experimental design, sampling techniques, data

presentation and analysis applicable to biological research. Emphasis will be placed on the application of statistical methods to biological problems and technical writing associated with experimentation. Prerequisite: Mathematics 220.

- 555 Biological Ultrastructure.** Four semester hours, two hours lecture, six hours lab per week. Theory and practical application of transmission electron microscopy. Emphasis on the ultrastructure of plant and animal cells. Prerequisite: Permission of instructor; for graduate biology majors only. Lab fee \$30.
- 556 Scanning Electron Microscopy.** Four semester hours, two hours lecture, six hours lab per week. Theory and practical application of scanning electron microscopy. Emphasis on specimen preparation and operation of the microscope. Prerequisite: Permission of instructor; for graduate biology majors only. Lab fee \$30.
- 560 Aquatic Ecology.** Two hours lecture, three hours lab per week. Current topics in basic and applied limnological research with emphasis on aquatic communities, analysis of aquatic productivity and water quality. Field trips required. Prerequisite: Permission of instructor; for graduate biology majors only. Lab fee \$30.
- 561 Waste Water Analysis.** Two hours lecture, three hours lab per week. Analysis and biological treatment of domestic and industrial water and waste water. Prerequisite: Permission of instructor; for graduate biology majors only. Lab fee \$30.
- 571 Special Topics In Biology.** Three hours lecture per week. Special studies in the biological sciences. May be repeated in a different topic. Prerequisite: 12 semester hours of biology.
- 572 Special Topics in Biology.** Three semester hours, two hours lecture, three hours lab per week. Special studies in the biological sciences. May be repeated in a different topic. Prerequisite: Permission of instructor; for graduate biology majors only. Lab fee \$30.
- 575 Advanced Graduate Studies.** One hour lecture, six hours lab per week. Individual conference, field or laboratory studies in advanced biological subjects. Prerequisite: 12 semester hours of biology and approval of the department chair. Lab fee \$10.
- 576 Advanced Graduate Studies.** One hour lecture, six hours lab per week. A continuation of 575 in a different area of study. Open only to students in Option 2. Prerequisite: 12 semester hours of biology and approval of department chair. Lab fee \$10.
- 581 Problems In Teaching College Biology: Internship.** Nine hours lab per week. The supervised teaching of biology at the college level. Required of all graduate assistants in biology during their first semester. Weekly consultations concerning teaching, grading, advising, and related matters. Taken in addition to basic requirements for the M.S. in biology. Prerequisite: Approval of the department chair.
- 589* Thesis Research.** Three to nine semester hours. Research should be planned and initiated at least two semesters before the thesis is to be completed. Prerequisite: 12 semester hours of biology and approval of the department chair. Lab fee \$10.
- 590* Thesis Writing.** Three to nine semester hours. Student must be enrolled in this course the semester he/she graduates. Prerequisite: Biology 589

DIVISION OF
BIOTECHNOLOGY

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MICHAEL PANGBURN, PH.D.
DIRECTOR AT UTHCT CAMPUS
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Objectives of the Division

The purpose of the graduate program is to prepare students with marketable skills in new and growing high-tech molecular biology and biochemistry areas, and to provide the academic foundation necessary to pursue further science, medical and professional studies.

Academic Requirements

A student must meet the general requirements for admission to the Graduate School. The student must have completed a bachelor's degree in the fields of chemistry or biology or a closely related area. For admission into the major of biotechnology, the student must have obtained a C or better in the following prerequisites: Microbiology (equivalent of BIO 309), Organic Chemistry (equivalent of CHE 330 or CHE 331), and Biochemistry (equivalent of CHE 452).

The biotechnology program is a collaborative program between Stephen F. Austin State University and the University of Texas Health Center at Tyler. A Master of Science in Biotechnology is thesis only. In order to complete the degree, the student can choose to do his or her research at either campus.

The **biotechnology major** consists of 36 course hours of study broken down as the following depending on whether the student chooses to do his/her research at the SFA campus or at the UTHCT campus: 18 hours of the following core courses - BTC 563, BTC 559, BTC 555, BTC 557, BTC 560, BTC 558; A minimum of three hours each of Thesis research, BTC 589, and Thesis writing, BTC 590; three hours each of BTC 575 and BTC 576 for students on the SFA campus or BTC 561 and BTC 562 for students on the UTHCT campus; and six hours of suggested electives that must be either 400 or 500 level of study usually in the areas of biotechnology, biology, chemistry or a related field.

The **biotechnology minor** in bioinformatics provides a foundation for computer science majors or other majors with the background and interest to work in a bioinformatics environment in a biological setting or in a computer science

setting. Specifically, the minor consists of nine hours of study in bioinformatics theory and application with an introduction to biotechnology concepts and techniques. The nine hours required for the minor are BTC 548/548L, BTC 549;/549L and BTC 575. The advanced graduate studies must be an applied research problem utilizing bioinformatics tools. Prerequisites for the minor: B.S. in computer science, life sciences or natural science.

Graduate Assistantships

A limited number of graduate assistantships are awarded on a competitive basis each year in the division. For information and applications, contact the director of the division. Graduate faculty for the Division of Biotechnology are faculty members of the Stephen F. Austin State University Departments of Biotechnology, Chemistry, Forestry, Agriculture, and Biology, and faculty members from the University of Texas Health Center at Tyler.

Student Organizations

The Biotechnology Club is open to all interested undergraduate and graduate students. Each year, the club hosts the Texas Biotechnology Symposium. This event serves to provide invaluable networking between the students and CEOs of Texas Biotech companies and leading scientists from the life science community. For additional information, visit www.biotech.sfasu.edu.

Courses in Biotechnology (BTC)

Because of the nature of this program, many of these courses are cross-listed with course offerings in other departments. Any of the comparative cross-listed courses may be substituted. If there are questions, please contact the division director.

Core Courses

- 555 Proteins and Nucleic Acids.** Two semester hours. A thorough study, at the molecular level, of protein and DNA structure and function.
- 555L Proteins and Nucleic Acids Laboratory.** One semester hour. The laboratory introduces the student to fundamental techniques used in the biotechnology industry to purify, characterize and study proteins and nucleic acids. Also see description under Department of Chemistry.
- 557 Advanced Metabolism.** Two semester hours. An in-depth look at the metabolic processes that occur in animals, plants, and microbes with an emphasis on the use of these processes in the biotechnology industry.
- 557L Advanced Metabolism Laboratory.** One semester hour. The laboratory is a self-paced, independent fermentation project of microorganisms currently used in the industry to produce products such as antibiotics, vitamins, sweeteners and other organic molecules. Also see description under Department of Chemistry.
- 558 Biophysical Chemistry.** Two semester hours. Instrumental analysis of proteins, nucleic acids, carbohydrates and lipids. Methods to include centrifugation, gradient separation, UV/Vis spectroscopy, electrophoresis, HPLC, chromatography, and scintillation spectroscopy.

- 558L Biophysical Chemistry Laboratory.** One semester hour. The laboratory provides hands-on experience with state-of-the-art equipment used in the biotech industry. Also see description under Department of Chemistry.
- 559 Advanced Biotechniques.** Two semester hours. An introduction to standard molecular biology techniques such as: isolation and purification of proteins and nucleic acids, cloning and expression of recombinant proteins with laboratory component.
- 559L Advanced Biotechniques Laboratory.** One semester hour. Also see description under Department of Chemistry.
- 560 Advanced Biochemistry.** Two semester hours. A quantitative look at: enzyme kinetics, preparation of buffers, and protein-protein interactions.
- 560L Advanced Biochemistry Laboratory.** One semester hour. Laboratory introduces methods to study proteins and mechanism of action. Also see description under Department of Chemistry.
- 563 Molecular Biochemistry.** Three semester hours. Application of molecular genetics to transcription control mechanisms; gene expression, molecular cloning, and applications to biotechnology.
- 575 Advanced Graduate Studies.** One to three semester hours. May be taken with a minimum of three hours.
- 576 Continuation of BTC 575.** One to three semester hours. May be taken with a minimum of three credit hours.
- 589* Thesis Research.** Three semester hours required minimum for degree. May be repeated. Must be taken in three-hour blocks. A grade is not assigned until student graduates.
- 590* Thesis Writing.** Three semester hours required minimum for degree. May be repeated in three-hour blocks. A grade is not assigned until student graduates. Only last three hours count toward degree. Prerequisite: approved thesis proposal.

Required courses on UTHCT campus (in place of CHE 575 and CHE 576) and electives for students on the SFA campus:

- 561 Biotechnology I.** Three semester hours. The topics covered in this course will include gel electrophoresis for analysis of proteins and nucleic acids; radiochemistry; DNA and RNA synthesis, isolation, cloning, and sequencing; RFLP; expression of proteins; and restriction enzyme analysis.
- 562 Biotechnology II.** Three semester hours. This course covers protein chemistry, immunology, the techniques of preparing tissue cultures, physical biochemistry, receptors and receptor assays, microscopy, computational biotechnology, molecular modeling, and the biometric analysis of data at an advanced level.

** A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis proposal has been approved.*

Suggested Electives for Major

- 503 Introduction to Biotechnology.** Three semester hours. A graduate-level course designed especially for high school and college instructors of biology and chemistry. The course presents topics of biotechnology as well as textbooks, journals, lab kits and other resources available to teachers. The curriculum enables participants to either integrate the techniques and issues of biotechnology into a traditional science course or to develop a new applied science program. Participants gain valuable hands-on experience with up-to-date techniques used in the biotechnology industry.
- 548 Bioinformatics I.** Three semester hours. This course is offered to any student interested in combining computer applications with the life sciences. An introduction to database management, data base mining, DNA sequence analysis and alignment, PERL, and LINUX will be described. Lecture will be integrated with a laboratory.
- 548L Bioinformatics I Laboratory.** Corequisite: BTC 548. This course is offered to any student interested in combining computer applications with the life sciences. An introduction to database management, data base mining, DNA sequence analysis and alignment, PERL, and LINUX will be described. Lecture will be integrated with a laboratory.
- 549 Bioinformatics II.** Three semester hours. This course is offered to any student interested in combining computer applications with the life sciences. An introduction to database management, data base mining, protein structure analysis and alignment, PERL, and LINUX will be described. Lecture will be integrated with a laboratory.
- 549L Bioinformatics II Laboratory.** Corequisite: BTC 549. This course is offered to any student interested in combining computer applications with the life sciences. An introduction to database management, data base mining, protein structure and alignment, PERL, and LINUX will be described. Lecture will be integrated with a laboratory.
- 550 Scientific Discovery.** Three semester hours. An overview of the major discoveries of the last and current century in biotechnology-related fields of science. Students will study and present the accomplishments of Nobel Laureates in the biological, medical and chemical sciences.
- 551 DNA Forensics.** Three semester hours. This class will present an overview of the history, techniques and applications of DNA typing in the area of forensics. Other investigative, non-forensic applications utilizing DNA technology will be presented. Forensics involvement in civil and criminal cases will be discussed.
- 552 Concepts in Laboratory Analysis.** Three semester hours. This course will provide practical experience with biochemical calculations and concepts used in the science lab. Fundamental mathematical, algebraic, analytical, and calculus concepts in a laboratory format will

be presented.

- 553 Critical Reading I.** One semester hour. This course exposes students to current research published in major scientific journals. Students will learn how to read and interpret methodologies and results published by other scientists. This course will provide the student with a thorough understanding of the strengths and limitations of scientific writing.
- 554 Critical Reading II.** One semester hour. This course exposes students to current research published in major scientific journals. Students will learn how to read and interpret methodologies and results published by other scientists. This course will provide the student with a thorough understanding of the strengths and limitations of scientific writing.
- 556 Biotech Research Seminar.** One semester hour. Students will present their thesis research progress to faculty and peers. Each student enrolled in BTC 575, BTC 576, BTC589 or BTC 590 must present his/her research each semester enrolled as scheduling permits. The student should have a committee meeting following the seminar. Seminars are formal PowerPoint presentations in preparation for thesis defense.

DEPARTMENT OF CHEMISTRY

MICHAEL A. JANUSA, CHAIR

Chemistry 104

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GRADUATE PROGRAM CO-ADVISERS:

MICHELE R. HARRIS

RICHARD H. LANGLEY

Objectives of the Department

The purpose of the graduate program is to prepare students for further graduate studies, teaching careers and industrial and governmental research. This research is offered in biochemistry and in organic, inorganic, analytical and physical chemistry.

Admission Requirements

To be admitted to graduate status as a major in the Department of Chemistry, a student must have completed a bachelor's degree that included at least 30 semester hours of undergraduate courses in chemistry. Chemistry 337 and 338 or their equivalents must be included in these hours.

To be admitted to graduate status in the Department of Chemistry as a minor, a student must have completed not less than 16 semester hours of undergraduate work in chemistry. The student also must have completed the specific prerequisites for each graduate course to be taken.

Graduate Programs in Chemistry

The Department of Chemistry offers a thesis and non-thesis master's degree (thesis option highly recommended). Thesis master's degree requires a minimum of 21 of the required 30 semester hours must be in chemistry (including CHE 589 and 590). The non-thesis master's degree requires a minimum of 27 of the required 36 semester hours in chemistry. Both options require a minimum of one graduate course in each area of chemistry.

A graduate minor in chemistry must total a minimum of nine semester hours of chemistry.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department. For information and applications, contact the chair of the department.

Graduate Faculty

Professors

Wayne C. Boring, Ph.D., University of Kansas, Analytical Chemistry
Anthony J. Duben, Ph.D., Pennsylvania State University, Physical Chemistry
Michael A. Janusa, Ph.D., Louisiana State University, Inorganic/Analytical Chemistry
Richard H. Langley, Ph.D., University of Nebraska, Inorganic Chemistry
John T. Moore, Ed.D., Texas A&M University, Science Education

Associate Professors

Alyx S. Frantzen, Ph.D., New Mexico State University, Chemistry/Math
Michele R. Harris, Ph.D., University of Arkansas, Biochemistry

Assistant Professors

Russell J. Franks, Ph.D., University of Oklahoma, Organic Chemistry
Chunmei Li, Ph.D., Texas A&M University, Organic Chemistry
Lu Yu, Ph.D., Texas Tech University, Environmental Toxicology

Courses in Chemistry (CHE)

Unless otherwise indicated, courses are three semester hours credit.

- 420 Environmental Chemistry.** Four semester hours, three hours lecture, three hours lab per week. The chemical processes involved in the environment. Prerequisite: CHE 231 and 330 or 331. Lab fee required.
- 441 Advanced Inorganic Chemistry.** The reactions and structures of inorganic molecules and ions are studied. Prerequisite: CHE 338.
- 442L Advanced Inorganic Chemistry Laboratory.** One semester hour, three hours laboratory per week. The preparation and characterization of inorganic compounds is investigated. Prerequisite: CHE 441 or concurrent enrollment. Lab fee required.
- 443 Instrumental Analysis.** Four semester hours, three hours lecture, three hours lab per week. Spectrochemical and electrochemical methods of analysis. Prerequisite: CHE 338 or concurrent enrollment. Lab fee required.
- 452 Comprehensive Biochemistry I.** Structure, function, and chemical aspects of proteins, nucleic acids and carbohydrates; enzyme kinetics; mechanism/regulation of enzymes; introduction to metabolism; carbohydrate metabolism. Prerequisite: CHE 330 or CHE 331 with a minimum grade of C.
- 452L Comprehensive Biochemistry I Laboratory.** One semester hour, three hours of lab per week. The purification and characterization of biomolecules. Prerequisite: CHE 330 or 331. Corequisite: CHE 452. Lab fee required.
- 453 Comprehensive Biochemistry II.** Continuation of Comprehensive Biochemistry I; study of the structure, function, chemistry, and metabolism of lipids, proteins, and nucleic acids; control of metabolic pathways, interrelationships of metabolic pathways; bioenergetics; current issues relating metabolism to medicine and health. Prerequisite: CHE 452 with a minimum grade of C.

- 455 Advanced Organic Chemistry.** Continuation of CHE 331-332, emphasizing spectroscopic methods and advanced topics. Prerequisite: CHE 332.
- 470 Seminar.** One semester hour. Written and oral reports. Prerequisite: 24 hours of chemistry.
- 471 Advanced Special Topics.** An independent study course that presents advanced topics in chemistry. It can be repeated under different topics. Permission of instructor required for enrollment.
- 471L Advanced Special Topics Laboratory.** One hour credit, three hours of laboratory per week. An independent study course that presents advanced laboratory techniques. Permission of instructor and lab fee required for enrollment.
- 503 Introduction to Biotechnology.** Designed especially for high school topics of biotechnology as well as introducing resources such as text books, journals, and lab kits. The curriculum will enable participants to either integrate the techniques and issues of biotechnology into a traditional science course or to develop new applied science programs. Prerequisite: B.S. in a science major. Mostly laboratory instruction.
- 505 Advanced Chemical Concepts.** Particular emphasis on those concepts that are of value in the teaching of all levels of science and chemistry. Prerequisite: CHE 320 or equivalent.
- 506 Topics in Chemical Concepts.** The course will examine one or more topics that are currently of interest in teaching chemical concepts. May be repeated under different topics. Prerequisite: CHE 505 or permission of the instructor.
- 511 Advanced Organic Chemistry.** Mechanisms and structural considerations of organic reactions are presented. Prerequisite: CHE 338.
- 516 Topics in Organic Chemistry.** Topics may include recent developments in organic synthesis, organometallics, heterocyclics, phase transfer catalysis, and physical organic chemistry. May be repeated under different topics.
- 521 Advanced Analytical Chemistry.** An in-depth study of classical and instrumental methods of analysis commonly encountered in analytical chemistry.
- 526 Topics in Analytical Chemistry.** Topics of current interest in analytical chemistry will be treated. May be repeated under different topics.
- 531 Advanced Inorganic Chemistry.** This course will present an advanced survey of the major principles of inorganic chemistry.
- 536 Topics in Inorganic Chemistry.** Topics of current interest in inorganic chemistry will be treated. May be repeated under different topics.
- 541 Advanced Physical Chemistry.** A survey of selected principles of physical chemistry at an advanced level.
- 546 Topics in Physical Chemistry.** Topics of current interest in physical chemistry will be treated. May be repeated under different topics.
- 551 Advanced Biochemistry.** In-depth study of the structure and function of DNA replication and repair; transcription; regulation of gene expression; genetic manipulation; ethical/medical/health issues relating

to genetic manipulation. Prerequisite: CHE 453 with a minimum grade of C.

555 Proteins and Nucleic Acids. Molecular basis for eukaryotic inheritance; structure and function; chromosomal organization; DNA replication and repair, transcription and translation; the genetic code, regulation of gene expression, genetic differentiation; genetic manipulation. Prerequisites: BIO 341 and CHE 453.

556 Topics in Biochemistry. Topics covered will relate to current developments and discoveries in the field of biochemistry. May be repeated under a different topic. Prerequisite: CHE 452 with a minimum grade of C.

557 Advanced Metabolism. This course will examine theoretical aspects of enzymatic reaction mechanisms; application of molecular orbital theory to enzymatic reaction mechanisms; mechanisms of metabolic inhibitors and fermentation technology. Laboratory training will involve the large-scale preparation of a particular enzyme or protein product by small pilot plant scale fermentation technology.

558 Biophysical Chemistry. Instrumental analysis of proteins, nucleic acids, carbohydrates, and lipids. Methods to include ultracentrifugation: gradient separation of proteins and nucleic acids; UV/visible spectroscopy, electrochemistry of cytochromes, X-ray diffraction of proteins and nucleic acids; and HPLC of proteins.

559 Advanced Biotechniques. Continuation of CHE 454 (Biotechniques). Advanced techniques in the isolation, purification and manipulation of nucleic acids and proteins in addition, more extensive training in the use of radioisotope techniques and safety in biotechnology. DNA-protein footprinting techniques, additional training in gel mobility shift techniques: further training in Western blot detection of DNA binding proteins; additional training in the design and synthesis of radiolabelled oligonucleotide probes by Khorana chemistry; polypeptide sequencing (UTHCT); and FACS technology (UTHCT).

561 Biotechnology I. The topics covered in this course will include gel electrophoresis for analysis of proteins and nucleic acids; radiochemistry; DNA and RNA synthesis, isolation, cloning, and sequencing; RFLP; expression of proteins; and restriction enzyme analysis.

562 Biotechnology II. This course covers protein chemistry, immunology, the techniques of preparing tissue cultures, physical biochemistry, receptors and receptor assays, microscopy, computational biotechnology, molecular modeling, and the biometric analysis of data at an advanced level.

572 Advanced Environmental Chemistry I. Chemical processes involved in the environment. Prerequisite: CHE 231 and 330 or 331.

575 Advanced Graduate Studies. One to three semester hours, three hours lab per week required for each semester hour of credit. Special problems in chemistry. Individual instruction. Prerequisite: Four semesters of chemistry or equivalent. Lab fee required.

576 Advanced Graduate Studies. One to three semester hours. A continuation of CHE 575. Prerequisite: CHE 575. Lab fee required.

581 A and B. Supervised Instruction of Laboratory Courses. Required of all graduate assistants for at least two semesters. Does not

DIVISION OF ENVIRONMENTAL SCIENCE

KENNETH W. FARRISH, DIRECTOR

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JEFFREY L. LEVIN, M.D.

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Objectives of the Division

The Division of Environmental Science is a collaborative unit of the College of Sciences and Mathematics and the Arthur Temple College of Forestry and Agriculture. The objectives of the Division of Environmental Science are:

- 1) To provide superior education programs in environmental science that produce graduates capable of understanding and addressing the complex environmental problems facing modern society.
- (2) To conduct research directed at developing an understanding of and finding solutions to environmental problems, particularly those of rural locations.
- (3) To provide outreach and service in environmental science.

Graduate Program in Environmental Science

The graduate program in environmental science is an interdisciplinary program between the Division of Environmental Science at Stephen F. Austin State University and the Division of Biomedical Research at the University of Texas Health Center at Tyler. These entities bring considerable research and teaching resources to the program. The result is a program with both the breadth and depth needed to address issues in the broad field of environmental science. Graduates of the program are employed in industry, the health care field, government regulatory agencies, and educational institutions. Graduates also are well prepared for further graduate education in environmental science or related fields.

Master of Science in Environmental Science

The environmental science master's degree program consists of 36 course hours of graduate study. It contains a common core of 12 hours of courses. Students then select one of the two tracks of specialized study. The Occupational and Environmental Health track contains an additional 12 hours of required courses and a group of approved electives to fulfill the balance of the 36 hours. The Land and Water Resources track contains six hours of required courses and a group of approved electives to fulfill the

balance of the 36 hours. Both tracks are available as thesis or non-thesis programs. Six hours of the elective hours are fulfilled by a combination of thesis research and thesis writing.

Admission Requirements

To be admitted to the graduate program in environmental science, a student must have completed a bachelor's degree, preferably in a science related area, with a minimum of six hours of biology (one laboratory course minimum), eight hours of chemistry, and a course in college algebra. Students without all of the prerequisites may be considered for admission on a provisional basis until the deficiencies are corrected. Students without an undergraduate degree in environmental science may be required to take one to three undergraduate background courses. In addition, students must meet the other general admission requirements of the Graduate School.

Graduate Assistantships

A limited number of graduate assistantships are awarded through the division. Application for these assistantships is made to the director of the division. Assistantship applications should be made to the Division of Environmental Science, Stephen F. Austin State University, P.O. Box 13073 - SFA Station, Nacogdoches, Texas 75962-3073. Assistantships and stipends also are available through the University of Texas Health Center at Tyler (UTHCT). Students interested in these opportunities should contact UTHCT directly at Environmental Science Graduate Program, UTHCT, 11937 U.S. Hwy 271, Tyler, Texas 75708-3154. Additional assistantships may be available through research funding provided by individual faculty members involved in the program.

Graduate Faculty

Interdisciplinary Graduate Faculty

Professors

Mingteh Chang, Ph.D., West Virginia University, Forest Hydrology
 Kenneth W. Farrish, Ph.D., University of Minnesota, Soils
 Volker W. Gobel, Ph.D., Colorado School of Mines, Environmental Geology
 David L. Kulhavy, Ph.D., University of Idaho, Forest Entomology
 Ernest B. Ledger Jr., Ph.D., Texas A&M University, Geochemistry
 Brian Oswald, Ph.D., University of Idaho, Fire Ecology and Management
 Hans M. Williams, Ph.D., Auburn University, Forest Ecophysiology/Urban Forestry/
 Wetlands Ecology
 J. Leon Young, Ph.D., Iowa State University, Soil Fertility, Director, Soil, Plant and Water
 Analysis Laboratory

Associate Professors

Chris Barker, Ph.D., University of South Carolina, Structural Geology,
 Geomorphology, and Field Geology
 Dean Coble, Ph.D., University of Montana, Biometrics
 Florence Elliott-Howard, J.D., South Texas College of Law, Law
 Alyx Frantzen, Ph.D., New Mexico State University, Chemistry
 Alexander Y. Karatayev, D.D., Institute of Zoology Belorussian Academy of Science,
 Aquatic Biology
 Daniel Robert Unger, Ph.D., University of Idaho, Remote Sensing and GIS

James Van Kley, Ph.D., Purdue University, Plant Taxonomy, Plant Ecology
 Stephen C. Wagner, Ph.D., Clemson University, Microbiology

Assistant Professors

Chris Comer, Ph.D., University of Georgia, Wildlife Management
 I-Kuai Hung, Ph.D., Stephen F. Austin State University, GIS
 David R. Ownby, Ph.D., The College of William and Mary, Ecotoxicology
 James Stamey, Ph.D., Baylor University, Statistics
 Lu Yu, Ph.D., Texas Tech University, Environmental Chemistry

Adjunct Faculty

Lyubov Burlakova, Ph.D., Institute of Zoology, Belorussian Academy of Science,
 Aquatic Ecology
 James Dyer, Ph.D., Louisiana State University, Wildlife and GIS
 Paul Steinbach, Ph.D., University of Missouri-Columbia, Analytical/Environmental
 Chemistry

University of Texas Health Center at Tyler

Charles F. Brady, D.O., Texas College of Osteopathic Medicine, Public and
 Environmental Health/Epidemiology, Occupational and Environmental
 Medicine
 Jeffrey Lynn Levin, M.D., University of Texas Medical School at San Antonio,
 Occupational and Environmental Medicine
 Larry K. Lowry, Ph.D., University of California, Davis, Occupational and Environmental
 Health, Occupation and Environmental Medicine
 Joseph T. Nalbone, Ph.D., Texas A&M University, Occupational and Environmental
 Health

Masters of Science in Environmental Science Curriculum

Common Core Courses (12 hrs.)

- ENV 504** **Occupational and Environmental Health.** Introduction to occupational and environmental health and safety hazards. Evaluation methods and general principles of control measures are presented. Approaches to the application of regulatory requirements are discussed.
- ENV 510** **Risk Assessment.** The principles and practices of preparing risk assessments and the process of risk analysis. Procedures for predicting and assessing risk presented by various external stressors on the physical, chemical, biological, cultural, and socioeconomic environments.
- ENV 525** **Environmental Law.** Introduction to the laws that regulate and influence environmental quality. Includes a comparison of various federal statutes and their state companion legislation that promotes human and environmental health. The nature of evident prosecution under these laws, legislative initiative, scientific support for rule making and the obligations of business are considered.

And select **one** of the following:

- BIO 552** Biological Experimental Design and Analysis
FOR 517 Biometrics
STA 520 Statistical Analysis

Track One

Occupational and Environmental Health

Common Core (12 hours)

Required Courses (12 hours)

- ENV 500** **Survey in Environmental Toxicology.** An intensive survey course covering the essentials of toxicology including the metabolic breakdown of xenobiotic materials, acute and chronic toxicity studies mandated by the EPA in TSCA and FIFRA, and the regulatory environment that these studies impact.
- ENV 520** **Fundamentals of Industrial Hygiene.** General principles and practice of industrial hygiene and occupational health hazards. Common chemical, physical, and biological factors that may produce work-related disorders and diseases in the industrial environment. Evaluation and control measures are discussed.
- ENV 540** **Advanced Occupational and Environmental Health.** This course focuses on disease by organ systems, toxicology, and physical hazards. Biologic hazards as well as environmental consideration of air, water, and land systems will be considered. Prerequisite: ENV 504
- ENV 542** **General Principles of Epidemiology.** An introduction to the study of the distribution and determinants of health-related states and events in defined populations and the application of this study to the control of health problems.

Select 12 hours or six hours and the thesis option from the following:

- ENV 522** **Industrial Hygiene Sampling and Analysis.** Sampling and analysis techniques for industrial hygiene assessment and monitoring. Laboratory experiments are intended to simulate typical industrial hygiene measurement situations to allow the student an opportunity to select proper sampling approaches and critically analyze the results. Prerequisites: ENV 520 and instructor approval. Lab fee.
- ENV 524** **Principles of Applied Toxicology.** General principles of toxicology including issues of route of exposure and absorption, pharmacokinetics and metabolism, basic mechanisms of cellular injury, dose-response, and factors influencing toxicity. General considerations of risk assessment are addressed, including the approach to determining "safe" levels of exposure for the purpose of preventing adverse health effects. Prerequisites: ENV 500, also instructor approval required.
- ENV 526** **Industrial Hygiene Internship.** Rotations will be arranged for the student to spend time with professionals in various work and environmental settings who are responsible for addressing issues of both industrial hygiene and safety. Prerequisites: ENV 520, also instructor approval required.
- ENV 544** **Social and Behavioral Aspects of Community Health.** Intended for the student with minimal background in the behavioral sciences. Focus will be on current health issues having a major social or behavioral component. Topics include access to health care, substance abuse, accidental and intentional injuries, and organizational as well as behavioral barriers to health care utilization.

- ENV 546 Administration of Health Services Organizations.** An overview of the structure of various health care organizations. Principles of effective management and administration including strategic decision making and policy development are included.
- ENV 575 Advanced Graduate Studies in Environmental Science.** Three semester credit hours. The student will select a special topic or problem for further focus and investigation in an environmental science area. A combination of one hour of direct faculty interaction and six hours of field/library or experimental work or two hours of direct faculty interaction and three hours of field/library or experimental work per week will be required. The student's activities will be expected to culminate in a written and/or oral presentation to faculty. Prerequisite: Enrollment in the Master of Environmental Science degree program and completion of at least 12 hours in the curriculum of environmental science, or by permission of the instructor.
- ENV 589 Thesis Research**
- ENV 590 Thesis Writing**

Track Two

Land and Water Resources

Common Core (12 hours)

Required Courses (6 hours)

- FOR 551 Introduction to GIS and Geospatial Analysis**
- ENV 502 Environmental Waste Management.** Investigates the methods by which geological principals are used to satisfy federal and state regulations concerning the environment.

Select 18 hours or 12 hours and the thesis option from the following:

- AGR 508 Soil-Plant Relationships**
- AGR 531 Advanced Agricultural Waste Management**
- BIO 450 Limnology**
- BIO 502 Aquatic Vascular Plants**
- BIO 525 Industrial Microbiology**
- BIO 560 Aquatic Ecology**
- BIO 561 Waste Water Analysis**
- CHE 521 Advanced Analytical Chemistry**
- CHE 526 Topics in Analytical Chemistry**
- CHE 572 Advanced Environmental Chemistry**
- ENV 412 Environmental Hydrology**
- ENV 415 Environmental Impact Statements and Environmental Planning.** Environmental planning in the U.S. with reference to the principles and procedures for preparing assessments and impact statements.
- ENV 500 Survey in Environmental Toxicology.** An intensive survey course covering the essentials of toxicology including the metabolic breakdown of xenobiotic materials, acute and chronic toxicity studies mandated by the EPA in TSCA and FIFRA, and the regulatory environment that these studies impact.

ENV 508	Microbial Ecology. Microbes in the ecosystem including their relationship to soil, water, sewage, air, and food. Prerequisite: 12 semester hours of biology, including BIO 309 or equivalent. Lab fee.
ENV 530	Ecotoxicology. The ecological and toxicological effects of natural and synthetic pollutants on populations, communities and ecosystems with the fate (transport, transformation and breakdown) of such pollutants in the environment.
ENV 570	Research Seminar. Prerequisite: Graduate standing or consent of instructor. A participatory seminar where graduate students condense, review and present research findings on focused topics. Subject matter varies by semester. May be repeated for credit.
ENV 571	Special Topics in Environmental Science. Special studies in environmental sciences. May be repeated in a different topic. Prerequisite: 12 hours of environmental science and permission of the instructor.
FOR 409	Forest Hydrology
FOR 503	Remediation and Reclamation of Disturbed Land
FOR 514	Wetland Delineation and Functional Assessment
FOR 521	Advanced Landscape Ecology
FOR 523	Plant Water Relations
FOR 535	Forest Soils
FOR 545	Forest and Range Ecology Concepts
FOR 552	Digital Remote Sensing
FOR 553	GIS and Geospatial Analysis
FOR 557	Ecological Field Methods
GOL 503	Groundwater Modeling
GOL 504	Groundwater Monitoring Design
GOL 508	Depositional Systems
GOL 520	Geochemistry
GOL 521	Environmental Techniques
GOL 549	Applied Hydrogeology
GOL 559	Contaminant Hydrology
GOL 568	Environmental Techniques
ENV 589	Thesis Research
ENV 590	Thesis Writing

**After the first enrollment in 589 and/or 590, a student must register for these each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis proposal has been approved.*

DEPARTMENT OF GEOLOGY

R. LARELL NIELSON, CHAIR AND
GRADUATE ADVISER

Science 301

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Objectives of the Department

The graduate program in geology has been designed to provide advanced studies leading to the Master of Science degree:

- (1) Master of Science in geology;
- (2) Master of Science in Natural Science (M.S.N.S.) with a concentration in geology.

Admission Requirements

To be admitted to graduate status as a major in the Department of Geology, a student must have completed a bachelor's degree equivalent to the B.S. degree in geology at this university. Students without this background may be admitted on a provisional basis pending the completion of courses in which they are deficient.

Graduate students who wish to minor in geology must have an undergraduate background of at least 18 semester hours in geology.

Graduate Programs

The M.S. in geology program requires completion of 30 semester hours of graduate geology (which could include some approved courses in other science disciplines), including 24 semester hours of course work and six hours of thesis research and writing (Geology 589 and 590). M.S.N.S. students wishing to develop a concentration in geology should have an undergraduate background in geology. The M.S.N.S. degree may consist of 36 semester hours of graduate courses without a thesis or 24 semester hours of graduate courses plus six hours of thesis research and writing (Geology 589 and 590).

A graduate minor in geology consists of a minimum of nine semester hours of graduate courses in geology.

Facilities and Research Opportunities

Graduate student research areas and advanced laboratories are available for faculty and student research. Major equipment includes X-ray diffraction and fluorescence units, gamma ray spectrometer instrumentation, ground penetrating radar, cesium-vapor magnetometer, ground conductivity meter, and student and research petrographic microscopes, one of which is dedicated to cathodoluminescence research.

A darkroom is available. Departmental computing facilities include microcomputers, Internet access, plotters, and digitizing tablets and application software packages in use in the geological sciences. Ready access to the university's mainframe and the library catalog system also is available. A scanning electron microscope is available for use by the department.

Research interests of the faculty include stratigraphy, clastic and carbonate sedimentary petrology, igneous and metamorphic petrology, geochemistry, structural geology, environmental geology and geohydrology. Individual graduate studies in the areas of research listed above are available to graduate students majoring in or minoring in geology.

Graduate Assistantships

A limited number of assistantships are available in the department to qualified students having clear admission to the Graduate School. Information regarding financial support may be obtained by contacting the chair of the department.

Graduate Faculty

Professors

Volker W. Gobel, Ph.D., Colorado School of Mines, Regional Geology, Petrology, Economic Geology, and Microscopy
 Ernest B. Ledger, Ph.D., Texas A&M University, Mineralogy and Geochemistry, Geohydrology and Environmental Geology
 R. LaRell Nielson, Ph.D., University of Utah, Stratigraphy, Field Geology, Sedimentary Petrology

Associate Professor

Chris A. Barker, Ph.D., University of South Carolina, Structural Geology, Geomorphology, Field Geology

Instructor

Patricia S. Sharp, M.S., Stephen F. Austin State University, General Geology, Teacher Preparation

Courses in Geology (GOL)

Unless otherwise indicated, courses are three semester hours credit.

- 406 Earth Science Activities.** Three hours lecture per week. Practical applications of Earth science principles from geology, oceanography, astronomy, and meteorology designed for students preparing to become elementary or secondary teachers.
- 449 Ground Water.** Two hours lecture, two hours lab per week. Principles of occurrence and movement of water beneath the Earth's surface and the influence of various geologic situations upon its behavior. Application of factors applying to depletion, recharge, and contamination of ground water supplies. Prerequisites: 12 hours of geology or eight hours of geology and four hours of related science.
- 443 Optical Mineralogy.** Two hours lecture, three hours laboratory per week. Optical behavior of crystals and identification of rock-forming minerals with the polarizing microscope. Prerequisite: Geology 241.

- 471 Special Topics In Geology.** One to four semester hours. Study of specific areas in geology. Prerequisite: 12 hours in geology and/or related science.
- 502 Environmental Waste Management.** Three hours lecture per week. Investigates the relationship between federal and state regulations and the geological methods by which subsurface characterization, detection monitoring and remediation strategy are predicted. Prerequisite: Admission to environmental science or geology graduate program.
- 503 Groundwater Modeling.** Three hours lecture per week. Use of computer programs to predict the movement of groundwater and contaminant plumes through porous media. Prerequisite: Admission to environmental science or geology graduate program.
- 504 Groundwater Monitoring Design.** Three hours lecture per week. Investigation of the factors affecting the movement of subsurface water and water supplies as mandated in various federal and state regulations. Prerequisite: Admission to environmental science or geology graduate program.
- 507 Sedimentology.** Two hours lecture, three hours lab. Study of sediments and sedimentary processes. Prerequisites: Graduate standing and permission of instructor.
- 508 Depositional Systems.** Three hours lecture per week. Use of recent professional literature to conduct detailed studies of clastic and carbonate depositional systems and the interpretation of classic sedimentary sequences of North America in the context of sequence stratigraphy. Prerequisites: Graduate standing and permission of instructor.
- 515 Sedimentary Petrography.** Two hours lecture, three hours lab per week. Study of sedimentary rocks using the polarizing microscope and their relationship to depositional environments. Prerequisite: Geology 443.
- 518 Advanced Structural Geology.** Three hours lecture, one hour laboratory per week. Integrated study of geologic structures and behavior of materials. Prerequisite: Geology 338.
- 520 Geochemistry.** Application of fundamental chemical concepts to natural aqueous solutions. Quantitative techniques are employed to solve problems involving geological materials. Prerequisites: Graduate standing and permission of instructor.
- 521 Environmental Techniques.** Three semester hours, three hours lecture per week. Modern techniques to deal with environmental problems at the Earth's surface and shallow subsurface. Prerequisite: Admission to environmental science or geology graduate program.
- 525 X-Ray Crystallography.** Two hours lecture, three hours lab per week. Application of X-ray diffraction analysis to crystalline materials. Structures and modes of formation of clays and associated minerals. Prerequisites: 12 hours of geology and/or related science.
- 549 Applied Hydrogeology.** Three semester hours, three hours lecture per week. Principles of water movement through the unsaturated and saturated zones with emphasis placed on quantifying the rate and

method of movement. Prerequisite: Geology 449.

- 559 Contaminant Hydrology.** Three semester hours, three hours lecture per week. Investigation of the relationship between the movement of water through a porous medium and the movement of inorganic and organic compounds. Special emphasis is given to developing methods by which contaminant movement can be predicted. Prerequisite: Geology 449 or 549.
- 566 Advanced Topics In Geology.** In-depth study of the following subjects: (a) sedimentary environments, (b) advanced field geology, (c) quantitative applications, and (d) advanced petrology. Students may receive credit for each of the above topics. Prerequisite: Geology major or minor.
- 568 Special Studies In Geology.** One to four semester hours. Study of general and specific topics in geology. Content changes with each offering. May be repeated once. Prerequisite: Geology major or minor status.
- 575 Advanced Graduate Studies.** One to four semester hours lecture, six hours lab per week. Individual studies; topics of study are especially designed to increase the student's knowledge of some aspects of geology as related to his/her field of interest. May be repeated under different topics.
- 576 Advanced Graduate Studies.** Same as 575 for credit in different topic.
- 578 Seminar In Geology.** Prerequisite: Geology major or minor status. May be repeated.
- 589* Thesis Research.** Research for thesis. Should be planned and initiated at least two semesters before the thesis is to be completed. Prerequisite: 12 semester hours of geology.
- 590* Thesis Writing.** Writing of thesis. The research project of this course must be initiated at least one semester before registration in order that the thesis research be carried out over a period of not less than two semesters. Prerequisites: 12 semester hours of geology and Geology 589.

**A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis proposal has been approved.*

DEPARTMENT OF MATHEMATICS AND STATISTICS

JASPER E. ADAMS, CHAIR

Nursing & Math 302

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W.D. CLARK, GRADUATE COORDINATOR

Nursing & Math 314

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Objectives of the Department

The purposes of the graduate program in mathematics and statistics are:

- (1) to offer preparation to those who are planning a doctoral program in mathematics and/or statistics;
- (2) to train persons to hold teaching positions in colleges, universities or public schools;
- (3) to train persons to serve as mathematicians or statisticians in business and industry.

Majors

The Department of Mathematics and Statistics offers the Master of Science degree with majors in mathematics, statistics and mathematics teaching with thesis or non-thesis options. The non-thesis major requires 36 semester hours of course work. The thesis major requires 30 semester hours of course work plus three semester hours of thesis research and three semester hours of thesis writing. All students with majors in mathematics or statistics will take 12 semester hours consisting of MTH 502, 503, 539, 540. Additional requirements are listed below for the respective majors with non-thesis and thesis options.

Mathematics (Non-Thesis). The student will take MTH 505, 508, 511, 512, 513, 514, 517, plus 3 graduate hours as advised.

Mathematics (Thesis). The student will take Thesis Research (MTH 589) and Thesis Writing (MTH 590), plus 18 hours from 505, 508, 511, 512, 513, 514, 517 as advised.

Statistics (Non-Thesis). The student will take STA 520, 521, 522, 523, 524, 525, 526, plus three graduate hours as advised.

Statistics (Thesis). Thesis Research (STA 589) and Thesis Writing (STA 590) plus 18 hours from STA 520, 521, 522, 523, 524, 525, 526 as advised.

School Mathematics Teaching (Non-Thesis).

Secondary Level Option The student will take MTE 564, 565, 566, 567, 570, 568, 572, 574, 578, 580, 584, 586. This degree is designed for the person who plans to teach secondary school mathematics. A graduate with this major may take the secondary level Master Mathematics Teacher exam.

Middle Level Option. The student will take MTE 564 (six hours), 550, 552, 554, 556, 558, 560, 562, plus nine hours from the College of Education as advised. This degree is designed for the person who plans to teach mathematics in grades 4-8. A graduate with this major may take the middle level Master Mathematics Teacher exam.

School Mathematics Teaching (Thesis). The student will take MTH 439G, 440G, 511, 512, 538, 545, STA 520, MTE 546, 589, 590, plus three hours from MTE 547 or MTE 548, plus three graduate hours.

Any deviation from the above requirements must be approved by the chair of the department and the graduate coordinator.

In order to successfully complete any of the majors listed above, the student should have the equivalent of the requirements in mathematics for an undergraduate major in mathematics. The student may be required to successfully complete any course that is a prerequisite for a course in the selected major.

Minors

The Department of Mathematics and Statistics offers minors leading to the Master of Arts, the Master of Education, the Master of Forestry and the Master of Science degrees. The minor also is offered as a research tool for the Doctor of Forestry degree. A minor in mathematics or statistics consists of at least nine semester hours of mathematics or statistics, respectively. These minors are flexible and can be adapted to meet the needs of students majoring in the pure sciences, the applied sciences, computer science or any other area in which a strong mathematics background is desired or required.

Facilities for Graduate Work

The Department of Mathematics and Statistics has access to the university computer through the campus computer network. The department has two computer laboratories that provide access to the Internet and to a wide variety of mathematical and statistical software including *Mathematica*, MAPLE and SAS. Each graduate assistant office has a computer with Internet access. The mathematics building is adjacent to Steen Library. The mathematics and statistics collection in the library is extensive and is constantly improved. Also, the department maintains a modest library within the mathematics building.

Colloquium Series

The Robert W. Yeagy Colloquium Series brings outstanding mathematicians and statisticians from across the country and from within our own university to speak on topics of interest to the mathematics and statistics community. Graduate students are expected to attend these lectures.

Graduate Assistantships

A number of graduate assistantships are awarded each year by the department. For information and application forms, contact the chair of the department or the graduate coordinator.

Graduate Faculty

Regents Professor

Ennis D. McCune, Ph.D., Texas Tech University, Mathematical Statistics

Professors

Jasper E. Adams, Ph.D., Texas Tech University, Mathematical Statistics

Thomas A. Atchison, Ph.D., University of Texas at Austin, Numerical Analysis

William Dean Clark, Ph.D., University of Texas at Austin, Analysis and Mathematics Education

Joseph G. McWilliams, Ph.D., Southern Methodist University, Applied Mathematics

C. Wayne Proctor, Ph.D., University of Houston, Topology

Associate Professors

Roy D. Alston, Ph.D., Texas Tech University, Analysis

Kimberly M. Childs, Ph.D., Texas A&M University, Mathematics Education

James Kelly Cunningham, Ph.D., Southern Methodist University, Statistics

Robert F. Feistel, Ph.D., University of Texas at Dallas, Applied Mathematics

Roy Joe Harris, Ph.D., Texas A&M University, Complex Analysis

Gregory K. Miller, Ph.D., Southern Methodist University, Applied Probability

Deborah A. Pace, Ph.D., University of Texas at Arlington, Differential Equations and Mathematics Education

Pamela D. Roberson, Ph.D., University of Houston, Topology

Assistant Professors

Lesa Beverly, Ph.D., Virginia Tech, Applied Mathematics

Keith E. Hubbard, Ph.D., University of Notre Dame, Algebra

Clint Richardson, Ph.D., Texas Tech University, Complex Analysis

James D. Stamey, Ph.D., Baylor University, Statistics

Sarah T. Stovall, Ph.D., Texas A&M University, Arithmetic Algebraic Geometry

Unless otherwise indicated courses carry three semester hours credit.

Courses in Mathematics (MTH Prefix)

- 415 Number Theory.** Properties of natural numbers, unique factorization, residue solution of congruencies, arithmetic functions, quadratic reciprocity law, distribution of primes. Diophantine equations, continued fractions, algebraic numbers. Prerequisite: MTH 311.
- 419 Probability.** An introduction to elementary probability laws, random variables, distribution theory, multivariate and conditional distributions, transformations of random variables and elementary convergence concepts. Prerequisites: MTH 311 and 333 or may be taken concurrently with 333 with consent of instructor.
- 439 Advanced Calculus I.** Elements of point set theory and an in-depth study of the basic idea of sequences, limits, continuity and differentiability. Prerequisites: MTH 311 and 333.
- 440 Advanced Calculus II.** A continuation of MTH 439 with topics in Taylor, Fourier and other special series and an in-depth study of Riemann-Darboux Integration. Prerequisite: MTH 439.
- 451 College Geometry.** A survey of topics from classical Euclidean geometry, modern Euclidean geometry, projective geometry, transformational geometry and non-Euclidean geometries. Prerequisites:

MTH 234 and 311.

- 502 Mathematical Statistics I.** Random variables, discrete and continuous distributions, multiple random variables, distributions of functions of random variables, convergence concepts. Prerequisite: MTH 439 or equivalent.
- 503 Mathematical Statistics II.** Sufficient and complete statistics, likelihood and moment estimation, properties of estimators, interval estimation and hypothesis tests. Prerequisite: MTH 502.
- 505 Numerical Methods In Differential Equations.** Numerical integration, numerical solutions of initial value problems, numerical solutions of boundary value problems. Prerequisites: MTH 305 and 337.
- 508 General Topology.** Metric spaces, topological spaces and Cartesian product spaces are studied together with certain topological properties such as compactness, connectivity and separability. Prerequisite: MTH 439.
- 511 Abstract Algebra I.** Groups, subgroups, homomorphisms, isomorphisms, cosets, factor groups, the Fundamental Theorem of Group Homomorphisms, the Fundamental Theorem of Finite Abelian Groups. Prerequisite: MTH 312.
- 512 Abstract Algebra II.** Rings and ideals, vector spaces, fields, integral domains, introduction to Galois Theory. Prerequisite: MTH 511.
- 513 Complex Variables I.** Differential calculus of functions of complex variables. Prerequisite: MTH 439.
- 514 Complex Variables II.** Integral calculus of functions of complex variables. Prerequisite: MTH 513.
- 517 Linear Algebra.** Finite dimensional vector spaces, linear transformations and matrices with emphasis on numerical aspects. Prerequisite: Undergraduate major in mathematics, including MTH 317.
- 538 Structure of the Real Number System.** Brief review of infinite sets, Peano's postulates, relations, equivalence classes, and isomorphisms. Rigorous development of the integers as equivalence classes of ordered pairs. Development of the real number system using Dedekind cuts. Comparison with Cauchy sequence development, complex numbers and quaternions. Prerequisite: 12 semester hours of advanced mathematics.
- 539 Real Variables I.** Study of functions and metric spaces. Prerequisite: MTH 440.
- 540 Real Variables II.** Study of measure theory and the Lebesgue integral. Prerequisite: MTH 539.
- 545 History of Mathematics.** A survey with emphasis on both practical and philosophical developments, and on anecdotal material. Prerequisites: 12 semester hours of mathematics, including MTH 233, 234.
- 564 Advanced Topics In Mathematics.** Topics in advanced mathematics. May be repeated for credit on a different topic with departmental approval. Prerequisite: Graduate standing in mathematics and consent of instructor.
- 575* Advanced Graduate Studies.** One to three conference hours per week. Individual studies in advanced mathematics. May be repeated for credit on a different topic with departmental approval. Prerequisites: Graduate standing in mathematics and approval by department chair.

- 576*** **Advanced Graduate Studies.** One to three conference hours per week. Same as 575 for credit in a different topic.
- 589**** **Thesis Research.** One to three semester hours. Research and preparation for writing the thesis. Prerequisite: Approval of graduate adviser.
- 590**** **Thesis Writing.** Three to nine semester hours. Writing of thesis. Prerequisite: MTH 589.

Courses in Statistics (STA Prefix)

- 520** **Statistical Analysis I.** Probability, statistical inference, rank tests, chi-square tests, linear regression and correlation, analysis of variance, multiple regression. Prerequisite: MTH 220 or equivalent.
- 521** **Statistical Analysis II.** Analysis of variance, multiple comparisons, blocking designs, higher factorial experiments, unbalanced designs, fixed and random effects, nested designs, split-plot designs, analysis of covariance. Prerequisite: STA 520 or equivalent.
- 522** **Regression Analysis.** Linear regression, estimation of residuals, non-linear models, multiple regression. Prerequisite: STA 520 and MTH 317.
- 523** **Stochastic Processes.** Markov chains, Poisson and renewal Processes, continuous time Markov processes including birth and death processes, queueing theory. Prerequisite: MTH 502.
- 524** **Applied Multivariate Analysis.** Cluster analysis, factor-analysis, discriminant analysis, canonical correlation analysis, and multivariate analysis of variance and covariance. Prerequisite: STA 520 and MTH 317.
- 525** **Applied Nonparametric Statistics.** An introduction to nonparametric analysis of the following: dichotomous data problems, one and two sample location problems, dispersion problems, and the one and two way layout. Nonparametric measures of association and basic nonparametric methods in regression. Prerequisite: STA 520.
- 526** **Applied Time Series.** Time series of regression, autocorrelation and partial autocorrelation functions, autoregressive moving average models, model identification and specification techniques, stationarity and invertibility conditions, seasonal and nonseasonal modeling, forecasting. Prerequisites: STA 520 and MTH 317.
- 564** **Advanced Topics In Statistics.** Topics in statistics. May be repeated for credit on a different topic with departmental approval. Prerequisites: Graduate standing in mathematics and consent of instructor.
- 575*** **Advanced Graduate Studies.** One to three conference hours per

week. Individual studies in statistics. May be repeated for credit on a different topic with departmental approval. Prerequisite: Graduate standing in mathematics and approval by department chair.

576* Advanced Graduate Studies. One to three conference hours per week. Same as STA 575 for credit in a different topic.

589 Thesis Research.** One to three semester hours. Research and preparation for writing the thesis. Prerequisite: Approval of graduate adviser.

590 Thesis Writing.** Three to nine semester hours. Writing of thesis. Prerequisite: STA 589.

Courses in Mathematics Teaching. Secondary (MTE Prefix)

546 Survey of Mathematics Literature. Mathematics literature for research, enrichment, reference and recreation. Prerequisites: 12 semester hours of mathematics and graduate standing. Lab fee \$15.

547 Mathematics Media. A study of the effective use of mathematics media, including applications of algebra, analysis and geometry using graphing calculators and computers. Prerequisite: 12 semester hours of mathematics and graduate standing. Lab fee \$15.

548 Seminar In Teaching Secondary School Mathematics. May be repeated once for credit on a different topic. Prerequisites: 12 semester hours of mathematics and graduate standing.

564. Advanced Topics In Mathematics. Topics in mathematics teaching. May be repeated for credit on a different topic with departmental approval. Prerequisite: Graduate standing in mathematics and consent of instructor.

565 Precalculus Mathematics. A combination of topics emphasizing concepts that are important in the study of calculus. Real and complex number systems; polynomial, rational, trigonometric, and transcendental functions; graphing in rectangular and polar coordinates using appropriate technology. Prerequisites: Nine semester hours of mathematics and graduate standing.

566 Differential Calculus. Limits, continuity, differential calculus of algebraic and trigonometric functions with applications; connections to the College Board AP calculus curriculum using appropriate technology. Prerequisites: MTE 565 or the equivalent and graduate standing.

567 Integral Calculus. Integral calculus with applications, techniques of integration, calculus of transcendental functions, indeterminate forms, improper integrals; connections to the College Board AP calculus curriculum using appropriate technology. Prerequisites: MTE 566 or the equivalent and graduate standing.

568 Topics in Advanced Calculus. Infinite series, sequences, power series, partial derivatives, multi-variable calculus using appropriate technology. Prerequisites: MTE 567 or the equivalent and graduate standing.

570 Logic and Proof. A study of formal logic, set theory, properties of relations and functions, and the basic structure of different forms of proof. Emphasis on mathematical reasoning and communication.

Prerequisites: MTE 567 or the equivalent and graduate standing.

- 572 Geometry Past and Present.** Result from Euclidean geometry analyzed in a historical context. Proofs of many famous theorems are presented from both a classical and modern perspective, including appropriate use of technology. Connections to calculus will be emphasized. Prerequisite: MTE 570.
- 574 Survey of Mathematics I.** A survey of topics from algebra and analysis with special emphasis on connections to geometry and the secondary mathematics curriculum. Topics include the real number system, functions, and equations, as well as issues related to curriculum, assessment, leadership, and mentoring. Prerequisite: MTE 568.
- 575* Advanced Graduate Studies.** One to three conference hours per week. Individual studies in mathematics teaching. May be repeated for credit on a different topic with departmental approval. Prerequisites: Graduate standing in mathematics and approval by department chair.
- 576* Advanced Graduate Studies.** One to three conference hours per week. Same as MTE 575 for credit in a different topic.
- 578* Probability Theory.** An introduction to elementary probability theory with topics to include probability, conditional probability, random variables, and elementary convergence concepts. Prerequisites: MTE 568 and MTE 570.
- 580* Statistical Reasoning.** Concepts of random variables, probability distributions, functions of random variables, convergence concepts, and statistical inference. Prerequisite: MTE 578.
- 584* Modern Algebra and Number Theory.** An introduction to the study of algebraic systems and number theory with topics to include groups, rings, fields, properties of natural numbers, and unique factorization. Prerequisite: MTE 570.
- 586* Survey of Mathematics II.** A survey of geometry with special emphasis on connections to algebra, analysis and the secondary mathematics curriculum. Topics include congruence, distance and similarity, trigonometry, area and volume, as well as issues related to curriculum, assessment, leadership, and mentoring. Prerequisites: MTE 568 and MTE 572.
- 589** Thesis Research.** One to three semester hours. Research and preparation for writing the thesis. Prerequisite: Approval of graduate adviser.
- 590** Thesis Writing.** Three to nine semester hours. Writing of thesis. Prerequisite: MTE 589.

Courses in Mathematics Teaching. Middle (MTE Prefix)

- 550 Seminar in Geometry.** Concepts of Euclidean and non-Euclidean geometry with emphasis on deductive and inductive reasoning, discovery and proof, congruence and similarity, and creative thinking

about quantitative, spatial, and logical situations. Special attention will be given to the implementation of geometry and measurement into the elementary curriculum. Prerequisite: At least six hours of undergraduate mathematics.

552 Patterns and Reasoning. Applications of critical reasoning skills to topics that include formal logic, probability and statistics, relations and functions, patterns and recursion, transformations and modeling. Students will be required to have a graphics calculator. Prerequisites: At least six hours of undergraduate mathematics.

554 Seminar in Algebra. Real and complex numbers, field properties, patterns, relations, and functions, solutions to equations and inequalities, sequences and series, and mathematical induction. Students will be required to have a graphics calculator. Prerequisite: At least six hours of undergraduate mathematics.

556 Logic and Foundations of Mathematics. An introduction to fundamental mathematical structures and techniques of proof. Topics include logic, set theory, relations, and functions. Emphasis will be placed on communication about mathematics and construction of well-reasoned explanations. Prerequisites: MTE 552 and 554.

558 Numerical Techniques in Mathematics. Algorithmic and numerical approaches to problems in algebra, geometry, number theory, counting techniques, modeling and limiting processes. Students will use a variety of computer software and will be required to have a graphics calculator. Prerequisite: MTE 556.

560 Historical Perspectives of Mathematical Concepts. A study of the origins of basic mathematical concepts and the development of these concepts through present day mathematics taught in elementary school settings. Emphasis will be placed on the role of mathematics in the western culture and on the development of appropriate language and notation over time. Prerequisites: MTE 550, MTE 552 and 554.

562 Probability and Statistical Reasoning. Descriptive statistics, probability, random variables, binomial and normal distributions, statistical inference, and linear regression. Prerequisites: MTE 552 and MTE 554.

**No more than six semester hours of Advanced Graduate Studies credit may be counted toward a degree without special permission from the dean of the college.*

*** Once a student begins work on a thesis he or she must register for 589 and/or 590 each semester or summer session until the thesis is completed. A student may not register for 590 until the thesis proposal is approved. A maximum of three semester hours each of 589 and 590 will be counted toward the M.S. in mathematics or statistics or mathematics teaching.*

SCHOOL OF NURSING

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KAREN MIGL, R.N., ASSISTANT DIRECTOR

The University of Texas School of Nursing at Galveston in collaboration with Stephen F. Austin State University offers a Master of Science degree in Nursing. The program prepares family nurse practitioners and/or acute care practitioners to function in a variety of roles in the rural community. The program requires 46 semester hours and has a non-thesis option. Requirements for admission include: B.S.N. from an accredited institution, recent MAT score of 45 or GRE score of 1000, minimum 3.0 (on a 4.0 scale) GPA, satisfactory grade on a basic undergraduate statistics course, current R.N. license and a letter of intent.

DEPARTMENT OF
PHYSICS AND ASTRONOMY

HARRY D. DOWNING, CHAIR

Science 322B

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WALTER L. TRIKOSKO, GRADUATE PROGRAM ADVISER

Science 322A

The Department of Physics and Astronomy offers a program of study leading to the Master of Science degree with a major in physics. The department has a well-established graduate program designed for students who wish to pursue physics as a profession with industry or to continue study leading to the Ph.D. This curriculum provides a firm foundation in the principles of classical and quantum physics and their application in atomic, molecular, nuclear, and solid state physics. Research activity is strongly encouraged. The department also offers an alternate series of courses and research activity leading to the Master of Science degree directed toward the preparation of students who are planning careers in teaching at the pre-college and junior college level. Students with these goals may select this optional program or may combine elements from this program with those of the professional level program described above. Admission requirements are the same as the general admission requirements of the Graduate School.

Graduate Majors and Minors

A graduate major in physics must complete a thesis program that includes 18 to 36 graduate hours in physics. Programs are structured in accordance with the student's background and professional objectives.

Students pursuing the professional physics option must include Physics 512, 531, 532, and 551.

For students preparing to teach in their program of study at the pre-college or junior college level, programs will normally include 513 and a thesis related to the teaching of the subject matter.

A graduate minor in physics consists of a minimum of nine semester hours of physics.

Facilities and Research Opportunities

The Department of Physics and Astronomy is located in a well-designed science building with adequate laboratory space, a well-equipped machine shop, and other facilities that provide an excellent study environment. A full-time machinist is employed in the department. Major equipment items include a complete X-ray diffractometer, a cryogenics laboratory, atomic force microscope, scanning electron microscope, high vacuum equipment, and excellent supporting electronic instrumentation and apparatus. Several microcomputers are available in the department.

The Department of Physics and Astronomy operates an astronomical observatory at a site 11 miles from the main campus with instructional viewing facilities with 16 6-inch reflectors, 128-inch Schmidt-Cassegrain reflectors, a 10-inch LX-200 telescope, an 18-inch Cassegrain telescope, and a 4 1-inch Cassegrain telescope. Also at the site are four 10-foot diameter radio telescopes.

Both experimental and theoretical research are being conducted in the areas of molecular spectroscopy, solid state physics, low temperature physics, and astronomy.

Graduate Assistantships

A limited number of graduate assistantships are awarded each year in the department.

For information and applications, contact the chair of the department.

Graduate Faculty

Professors

Donald E. Bowen, Ph.D., University of Texas, Ultrasonics in Low Temperature Liquids

Thomas O. Callaway, Ph.D., University of Arkansas, Liquids and Amorphous Materials

Harry D. Downing, Ph.D., Florida State University, Infrared Spectroscopy

Robert W. Gruebel, Ph.D., University of Arkansas, X-rays, Liquid State Physics

Norman L. Markworth, Ph.D., University of Florida, Astronomy

Associate Professors

W. Dan Bruton, Ph.D., Texas A&M University, Liquids and Amorphous Materials, Astronomy

Robert B. Friedfeld, Ph.D., Florida Institute of Technology, Thin Films, Solid State

Walter L. Trikosko, Ph.D., Clemson University, Low Temperature Physics

Courses in Physics (PHY)

Unless otherwise indicated, courses are three semester hours credit.

- 430 Thermodynamics.** Includes the kinetic theory of gases, Maxwell-Boltzmann statistics, Fermi-Dirac statistics, the Debye Approximation, magnetic cooling, and the theory of heat engines. Prerequisite: PHY 333.
- 431 Introductory Quantum Mechanics.** DeBroglie wave, Schroedinger formulation, step and barrier potentials, perturbation theory, harmonic oscillator, annihilation and creation operations, commutation relations, representations. Prerequisite: PHY 333.
- 441 Optics.** Four semester hours, three hours lecture per week, three hours

lab per week. Fundamentals of physical and geometrical optics including polarization and diffraction. Prerequisite: PHY 440. Lab fee required.

511 Nuclear Physics. Four semester hours. Prerequisite: PHY 431.

512 Atomic Structure. Prerequisite: PHY 431.

513 Laboratory and Demonstration Experiments In Physical Science. Two to four semester hours. Students are trained in the acquisition, assembly and use of apparatus required for physical science experiments. Prerequisite: 12 hours total from natural science and/or education. Lab fee required.

521 Electronic Devices for Classroom Demonstration. Two to four semester hours. A presentation designed primarily for in-service teachers. Students are trained in the operational principles of the devices and their use in classroom demonstrations and experiments. Prerequisite: 12 hours total from natural science and/or education. Lab fee required.

522 Astronomy for In-Service Teachers. Two to four semester hours. A descriptive study of the universe, galaxies and the solar system specifically designed for the in-service physical science teacher in both elementary and secondary education. Prerequisite: 12 hours total from natural science and/or education. Lab fee required.

523 Laboratory and Demonstration Experiments In Atmospheric Science. Two to four semester hours. Prerequisites: 12 hours total from natural science and/or education. Lab fee required.

531 Classical Mechanics. Four semester hours, four hours lecture per week. Lagrange's equations, Hamilton's principle, dynamics of particles and of rigid bodies, gyro dynamics, the Hamilton equations of motion, and canonical transformations. Prerequisite: Intermediate mechanics.

532 Electromagnetic Waves. Four semester hours, four hours lecture per week. Theory of electromagnetism, static, and time varying fields and propagation, reflection and refraction of electromagnetic waves. Prerequisite: PHY 440.

533 A and B. Theoretical Physics. Four semester hours, four hours lecture per week. Topics selected in accordance with the interests and areas of specialization of the graduate students. Course may be repeated with different subject matter one time for credit. Prerequisites: PHY 440 and 431.

534 Solid State Physics. Four semester hours, four hours lecture per week. An interplay of experiment and theory provides insight into both surface and interface physics, non-crystalline solids and alloys. Energy band structures and dispersion relationships expand student's command of electrodynamics, crystallography, thermodynamics, optics, and classical, quantum, and statistical mechanics. Prerequisite: PHY 431.

551 Advanced Quantum Mechanics. Four semester hours, four hours lecture per week. Wave packets and free particle motion, double

minimum potential, piecewise constant potentials, scattering, spin, approximation methods, dynamics, matrix theory, Dirac Electron theory. Prerequisite: PHY 431.

570 A and B. Individual Instruction In Technical Presentations. One semester hour, one hour lecture per week. Individual instruction. Student participation in general and special topics in physics. Graduate major or minor status.

575 Advanced Graduate Studies. One to four semester hours. Individual instruction and special problems not a part of thesis. May be repeated under different topics.

576 Advanced Graduate Studies. One to four semester hours depending upon the topic. Same as PHY 575 but in a different topic.

581 A and B. Problems In Teaching College Physics. Three semester hours, nine hours lab per week. Supervised teaching internship through individualized instruction. Graduate teaching assistants are required to take the course each of their first two semesters. Does not count toward basic requirements for the degree. Pass-Fail. Prerequisite: 18 hours of physics.

589* Thesis Research. Grade withheld until completion of thesis.

590* Thesis Writing. Three to nine semester hours. Prerequisite: PHY 589.

** A student must register for 589 and/or 590 each semester or summer session until the thesis is completed. However, a student may not register the first time for 590 until the thesis proposal has been approved.*

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