



LAMAR

U N I V E R S I T Y

EXPANDING MINDS • SHAPING FUTURES.

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& you

Member of The Texas State University System

General Catalog 2004-2006



LAMAR UNIVERSITY

2004-2006 Catalog • Volume 48 Number 1

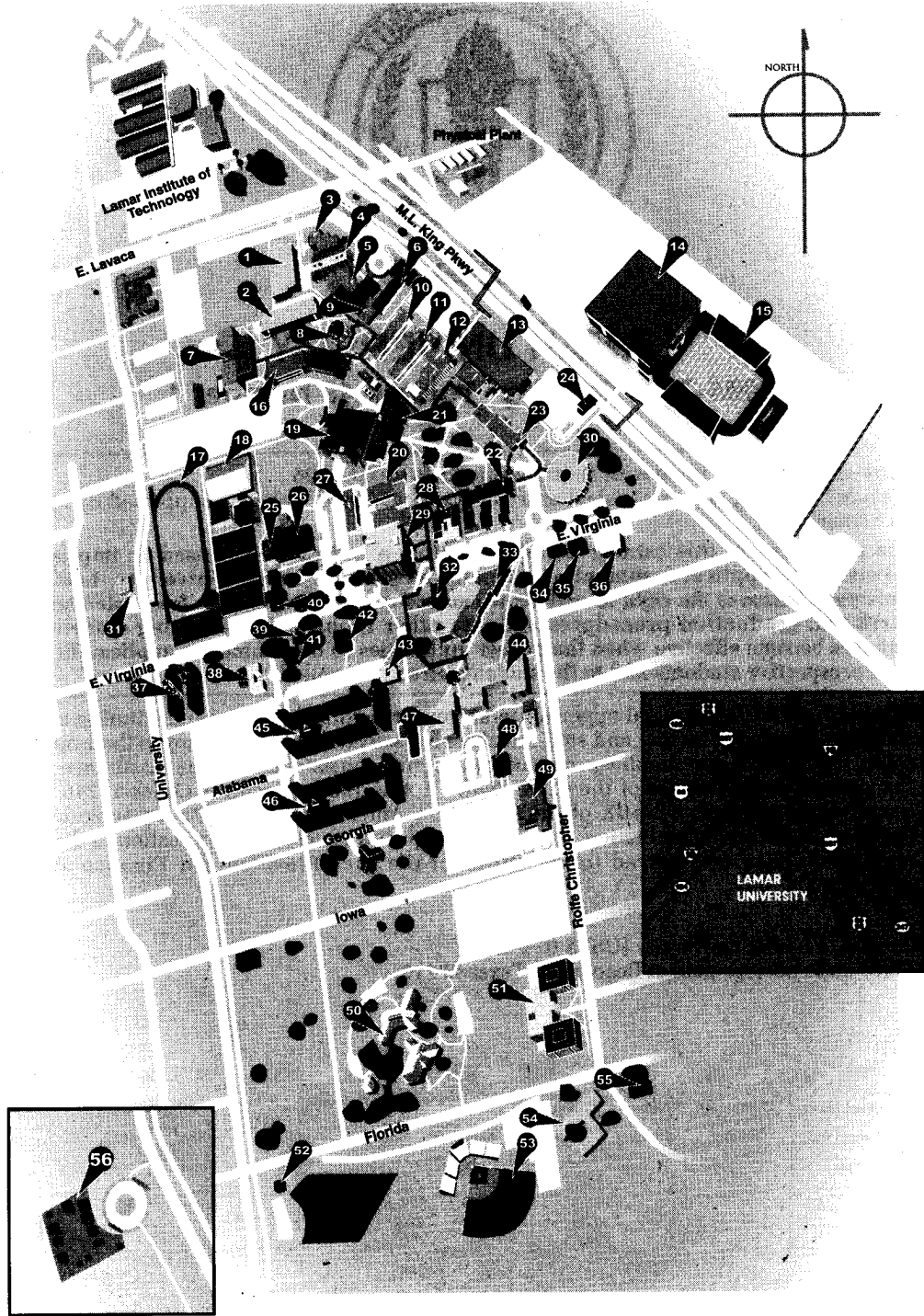
Forty-eighth catalog issue with announcements for 2004-2006.
Founded in 1923, and established as a four-year coeducational state-supported college on September 1, 1951.

The provisions of this catalog do not constitute a contract, expressed or implied, between any applicant, student and faculty member in Lamar University. Lamar University reserves the right to withdraw courses at any time, change fees, calendars, curricula, graduation procedures and any other requirement affecting students. Changes become effective when the proper authorities so determine the application to both prospective students and to the students already enrolled.

Lamar University is an equal opportunity/affirmative action educational institution and employer. Students, faculty and staff members are selected without regard to their race, color, creed, sex, age, handicap or national origin, consistent with the Assurance of Compliance with Title VI of the Civil Rights Act of 1964; Executive Order 11246 as issued and amended; Title IX of the Education Amendments of 1972, as amended; Section 504 of the Rehabilitation Act of 1973. Inquiries concerning application of these regulations may be referred to the Office of the Vice President for Finance and Operations.

Catalog of Lamar University (USPS 074-420).
Third class postage paid at Beaumont, Texas 77710.

LAMAR UNIVERSITY



BUILDING LEGEND – ALPHABETICAL

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Small Business Development Center			

2004-2005 CALENDAR

Fall Semester - 2004

August 2004

- 23 Non-payment registration purge after 5 p.m.
- 24 Registration (last day without late fee)
- 25 First class day
- 27 Schedule revisions/late registration with late fee
- 27 Last day for schedule revisions/late registration with late fee
- 27 Application for December 2004 graduation begins

AUGUST

S	M	T	W	T	F	S
1	2	3	4	5	6	7
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15	16	17	18	19	20	21
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September 2004

- 6 Labor Day holiday
- 10 12th class day
- Non-payment registration purge after 5 p.m.
- 22 20th class day

SEPTEMBER

S	M	T	W	T	F	S
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26	27	28	29	30		

October 2004

- 4 Last day for graduate students to apply & pay for December graduation
- 6 Last day to drop or withdraw without penalty
- 11 Last day to petition for "No-Grade"
- 29 Distribution of Spring 2005 Class Schedule

OCTOBER

S	M	T	W	T	F	S
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31						

November 2004

- 1 Advising for Spring 2005 begins
- Last day for undergraduates to apply & pay for December graduation
- 8 Registration for Spring 2005 begins
- 12 Last day to drop or withdraw, with penalty
- 24 Thanksgiving recess begins at 10 p.m.
- 25-26 Thanksgiving holidays

NOVEMBER

S	M	T	W	T	F	S
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28	29	30				

December 2004

- 7 Finals preparation day - no classes
- Finals begin at 5:00 p.m.
- 8-14 Final examinations
- 15 Winter Mini-Session begins - first class day
- 16 Grades for graduating seniors due by 8:30 a.m.
- Grades for all other students due by 4:00 p.m.
- 18 Commencement

DECEMBER

S	M	T	W	T	F	S
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Spring Semester - 2005

January 2005

- 10 Winter Mini-Session ends
- Payment day/Non-payment registration purge after 5 p.m.
- 11 Registration (last day without late fee)
- 12 First class day
- 13 Schedule revisions/Late registration with late fee
- 17 Martin Luther King, Jr. holiday
- 18 Application for May 2005 graduation begins
- 28 12th class day/Non-Payment registration purge after 5 p.m.

JANUARY

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February 2005

- 9 20th class day
- 23 Last day to drop or withdraw without penalty
- Last day to petition for "No Grade"

FEBRUARY

S	M	T	W	T	F	S
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27	28					

March 2005

- 7 Last day for graduate students to apply & pay for May graduation
- 14-18 Spring Break
- 25 Good Friday - No classes
- 31 Distribution of Summer/Fall 2005 Class Schedule

MARCH

S	M	T	W	T	F	S
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13	14	15	16	17	18	19
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April 2005

- 1 Last day for undergraduate students to apply & pay for May graduation
- 4 Advising for Summer & Fall 2005 begins
- 11 Last day to drop or withdraw with penalty
- Registration for Summer/Fall 2005 begins

APRIL

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May 2005

- 3 Finals preparation day - No classes/Finals begin at 5 p.m.
- 4-10 Final examinations
- 11 Summer Mini-Session begins
- 12 Grades for graduating seniors due by 8:30 a.m.
- Grades for all other students due by 4:00 p.m.
- 14 Commencement
- 23 Summer Mini-Session ends
- 30 Memorial Day holiday

MAY

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**Summer Session - 2005
First Term**

May 2005

- 27 Payment day
Non-payment registration purge after 5 p.m.
- 30 Memorial Day holiday
- 31 Registration (last day without late fee)

MAY

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June 2005

- 1 Summer I classes begin
Schedule revisions/Late registration with late fee
- 2 Application for August 2005 graduation begins
- 3 Last day for schedule revisions/Late registration with late fee
- 6 4th class day/Non-payment registration purge after 5 p.m.
- 10 Last day for graduate students to apply & pay for August graduation
- 13 Last day to drop or withdraw without penalty
- 15 Last day to petition for "No Grade"
- 24 Last day to drop or withdraw with penalty

JUNE

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July 2005

- 1 Last day for undergraduates to apply & pay for August graduation
- 4 July 4th holiday
- 6 Last class day Summer I

JULY

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**Summer Session - 2005
Second Term**

July 2005

- 4 July 4th holiday
- 7 Registration Summer II (last day without late fee)
- 8 Summer II classes begin
Schedule revisions/Late registration with late fee
- 13 4th class day/Non-payment registration purge after 5 p.m.
- 20 Last day to drop or withdraw without penalty
- 22 Last day to petition for "No Grade"
- 28 15th class day

August 2005

- 1 Last day to drop or withdraw with penalty
- 11 Last class day Summer II
- 12 Grades for graduating seniors due by 8:30 a.m.
- 13 Grades for all other students due by 12 noon
Commencement

AUGUST

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2005-2006 CALENDAR

Fall Semester - 2005

August 2005

- 22 Non-payment registration purge after 5 p.m.
 23 Registration (last day without late fee)
 24 First class day
 Schedule revisions/late registration with late fee
 26 Last day for schedule revisions/late registration with late fee
 Application for December 2005 graduation begins

AUGUST

S	M	T	W	T	F	S
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21	22	23	24	25	26	27
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September 2005

- 5 Labor Day holiday
 9 12th class day
 Non-payment registration purge after 5 p.m.
 21 20th class day

SEPTEMBER

S	M	T	W	T	F	S
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October 2005

- 3 Last day for graduate students to apply & pay for December graduation
 5 Last day to drop or withdraw without penalty
 10 Last day to petition for "No-Grade"
 28 Distribution of Spring 2006 Class Schedule
 31 Advisement for Spring 2006 begins

OCTOBER

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23	24	25	26	27	28	29
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November 2005

- 4 Last day for undergraduates to apply & pay for December graduation
 7 Registration for Spring 2006 begins
 11 Last day to drop or withdraw, with penalty
 23 Thanksgiving recess begins at 10 p.m.
 24-25 Thanksgiving holidays

NOVEMBER

S	M	T	W	T	F	S
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December 2005

- 6 Finals preparation day - No classes
 Finals begin at 5:00 p.m.
 7-13 Final examinations
 14 Winter Mini-Session begins - First class day
 15 Grades for graduating seniors due by 8:30 a.m.
 Grades for all other students due by 4:00 p.m.
 17 Commencement

DECEMBER

S	M	T	W	T	F	S
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
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Spring Semester - 2006

January 2006

- 9 Winter Mini-Session ends
- Payment day/Non-payment registration purge after 5 p.m.
- 10 Registration (last day without late fee)
- 11 First class day
- 12 Schedule revisions/Late registration with late fee
- 16 Martin Luther King, Jr. holiday
- 17 Application for May 2006 graduation begins
- 27 12th class day/Non-payment registration purge after 5 p.m.

JANUARY

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29	30	31				

February 2006

- 8 20th class day
- 22 Last day to drop or withdraw without penalty
- Last day to petition for "No Grade"

FEBRUARY

S	M	T	W	T	F	S
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4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
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March 2006

- 6 Last day for graduate students to apply for May graduation
- 13-17 Spring Break
- 24 Good Friday - No classes
- 31 Distribution of Summer/Fall 2006 Class Schedule

MARCH

S	M	T	W	T	F	S
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17	18	19	20	21	22	23
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April 2006

- 3 Advisement for Summer & Fall 2006 begins
- Last day to apply & pay for graduation
- 10 Last day to drop or withdraw with penalty
- Registration for Summer & Fall 2006 begins

APRIL

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May 2006

- 2 Finals preparation day - No classes/Finals begin at 5 p.m.
- 3-9 Final examinations
- 10 Summer Mini-Session begins
- 11 Grades for graduating seniors due by 8:30 a.m.
- Grades for all other students due by 4:00 p.m.
- 13 Commencement
- 22 Summer Mini-Session ends
- 29 Memorial Day holiday

MAY

S	M	T	W	T	F	S
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

**Summer Session - 2006
First Term**

May 2006

- 26 Payment day
Non-payment registration purge after 5 p.m.
- 29 Memorial Day holiday
- 30 Registration (last day without late fee)
- 31 Summer I classes begin
Schedule revisions/Late registration with late fee

MAY

S	M	T	W	T	F	S
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

June 2006

- 1 Application for August 2006 graduation begins
- 2 Last day for schedule revisions/Late registration with late fee
- 5 4th class day/Non-payment registration purge after 5 p.m.
- 9 Last day for graduate students to apply for August graduation
- 12 Last day to drop or withdraw without penalty
- 14 Last day to petition for "No Grade"
- 23 Last day to drop or withdraw with penalty
- 30 Last day to apply & pay for August graduation

JUNE

S	M	T	W	T	F	S
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July 2006

- 4 July 4th holiday
- 5 Last class day Summer I

JULY

S	M	T	W	T	F	S
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9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

**Summer Session - 2006
Second Term**

July 2006

- 4 July 4th holiday
- 6 Registration Summer II (last day without late fee)
- 7 Summer II classes begin
Schedule revisions/Late registration with late fee
- 12 4th class day/Non-payment registration purge after 5 p.m.
- 19 Last day to drop or withdraw without penalty
- 20 Last day to petition for "No Grade"
- 27 15th class day
- 31 Last day to drop or withdraw with penalty

AUGUST

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

August 2006

- 10 Last class day Summer II
- 11 Grades for graduating seniors due by 8:30 a.m.
Grades for all other students due by 12 noon
- 18 Commencement

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New residence halls provide a backdrop for a rich array of extracurricular activities — from intramural and NCAA Division I-A sports action to numerous organizational, Greek and performing arts opportunities.

General Information

Location

The Lamar University campus is located in Beaumont, Texas. With a population of more than 115,000, Beaumont is a diversified city, home not only to the University but also to businesses and industries stemming from a strong petrochemical and agricultural base. World-renowned companies are located in Beaumont to take advantage of the area's resources and its educated work-force.

A host of cultural attractions offer a variety of leisure options from world-class museums and symphony presentations to shopping districts and many spring and fall festivals. A civic center, convention center, entertainment complex and coliseum draw professional entertainers and a wide variety of business, social and professional groups to the city. Beaumont is convenient to lake, river and ocean recreation, located only a few miles from the balmy Gulf Coast and little more than an hour from the Big Thicket National Preserve, large lakes and piney woods.

The campus is home to the stately Mary and John Gray Library, the Montagne Center coliseum, the Setzer Student Center, Gladys City Boomtown, several residence halls and state-of-the-art computing and engineering facilities, including a leading-edge interactive video laboratory. Lamar University welcomes visitors. Information regarding tours may be obtained from the Office of Admission Services, P.O. Box 10009, Beaumont, Texas 77710, phone (409) 880-8888.

History

Lamar University originated on March 8, 1923, when the South Park School District in Beaumont authorized its superintendent to proceed with plans to open "a Junior College of the first class." On September 17, South Park Junior College opened with 125 students and a faculty of fourteen. Located on the third floor of the South Park High School building, the College shared the library and athletic facilities with the high school. In 1932, separate facilities were provided and the name of the institution was changed to Lamar College, to honor Mirabeau B. Lamar, second president of the Republic of Texas and the "Father of Education" in Texas.

On June 8, 1942, as a result of a public campaign, a new campus was purchased and classes were held for the first time on the present-day campus in Beaumont. After World War II, the College grew to 1,079, and the Honorable Jack Brooks introduced a bill in the Texas House of Representatives to make Lamar University a state-supported senior college. The Legislature approved House Bill-52 June 4, 1949, creating Lamar State College of Technology effective September 1, 1951. Lamar was the first junior college in Texas to become a four-year, state-supported college. Lamar continued to grow, building strong programs in engineering, sciences, business, education and the arts.

In 1962, a graduate school was established offering master's degrees in several fields. The Doctorate in Engineering was established in 1971. In the same year, House Bill-590 became law, changing the institution's status from college to university. Lamar State College of Technology, with an enrollment of 10,874, officially became Lamar University on August 23, 1971.

In 1969, an extension center was opened in Orange, and in 1975, the long-standing, private two-year Port Arthur College became Lamar University at Port Arthur. The Lamar University System, of which Lamar University-Beaumont was the primary component, was established in the 68th Session of the Texas Legislature with the passage of SB-620, which took effect in August 1983.

In 1990, the Texas Higher Education Coordinating Board recommended that all two-year programs at Lamar University be combined into the Lamar University Institute of Technology. The programs in the former College of Technical Arts, along with Allied Health, Office Technology and Restaurant/Institutional Food Management were placed in the new Institute. The Doctorate of Education in Deaf Education was established at Lamar University in 1993 and the Doctorate of Education in Educational Leadership in 2004.

Lamar's commitment to quality higher education has been steady and progressive, anticipating the evolving needs of its students. To facilitate this commitment, the Texas Legislature approved House Bill-2313 to merge the Lamar University System with The Texas State University System (TSUS). Effective September 1, 1995, Lamar University, along with the two-year components, joined sister institutions Angelo State University, Sam Houston State University, Southwest Texas State University (now Texas State University-San Marcos) and Sul Ross State University. On June 19, 1999, the Texas Legislature approved House Bill-1297 to rename Lamar University at Port Arthur, Lamar University at Orange and the Lamar University Institute of Technology. Today, these TSUS institutions are known as Lamar State College at Port Arthur, Lamar State College at Orange and the Lamar Institute of Technology.

As a comprehensive university granting bachelor's, master's and doctoral degrees, Lamar University continues to enhance its instructional, service and research missions. Lamar's growth has produced an economic impact that exceeds \$200 million annually, but even more influential is the impact realized by Lamar graduates, who are more than 65,000 strong.

Government

A board of nine regents, appointed by the Governor and approved by the State Senate for terms of six years, governs The Texas State University System. The Board of Regents delegates the direction of university affairs to the presidents, campus administrative officers and faculty.

Mission Statement

Lamar University is a comprehensive senior public university dedicated to providing a learning environment of the highest quality. The University is an educational, scientific, engineering, business and cultural resource center committed to the threefold mission of teaching, research and service. The University is committed to providing students with a liberal education in the context of a global and multicultural environment and seeks partnerships with business, governmental, industrial and other educational organizations to more efficiently accomplish its goals.

Instructional Mission

Lamar University emphasizes quality teaching, student access to faculty and careful student counseling. The University creates a liberating educational experience for each student that expands knowledge, awakens new intellectual interests, examines values, develops talents, provides new skills and prepares each student to assume an effective role as a citizen in a democracy.

The University's mission in graduate education is broad-based at the master's level, and includes doctorates in audiology (pending), educational leadership (pending), engineering and deaf education. The University's mission in graduate education is characterized by an emphasis on professional fields of study.

With historical commitments to quality educational programs in engineering, business, the arts and sciences, health sciences, education, and the visual and performing arts, the University focuses its unique strengths on significant problems of contemporary interest as evidenced by its recent initiatives in environmental science, engineering, gifted education, and deaf education. Lamar University is strongly committed to the continual enhancement of teaching/learning methodologies and their systematic assessment.

Research Mission

As a comprehensive, regional university with extensive educational programs, Lamar University's academic efforts are directed to both applied and basic research, scholarship and creative activities. Through its emphasis on the "teacher-scholar model," the University encourages faculty members to be active in their respective disciplines, to involve both undergraduate and graduate students in research and creative pursuits, and to support the principle that research is inseparable from teaching.

Service Mission

The University's educational mission extends to all residents of the Southeast Texas area and, in special cases, beyond the region. In recognition of that mission, the University provides a diverse outreach program including: credit and noncredit continuing education offerings responsive to the personal, career, and professional development needs of individuals in our region; specialized skills training and human resource development for business and industry on the Gulf Coast; and public service activities that respond to unique regional educational needs and cultural interests.

The University contributes to the cultural life of the region through artistic presentations and events utilizing the talents of faculty, students and visiting lecturers, artists and performers.

Students, faculty and staff are encouraged to be involved in civic, cultural, service and professional activities. By such voluntary and consultative activities, members of the University demonstrate their citizenship within the larger community.

The Philosophy of Knowledge Core Curriculum

Rationale

A program of General Education Requirements for undergraduates is based on the premise that certain common, essential qualities, independent of one's academic discipline, are necessary for intellectual growth and professional advancement. These fundamental, "liberating" qualities, which have guided human progress through history, enable one to communicate effectively, think critically and examine values and principles. They provide a working acquaintance with the scientific method, an appreciation of cultural achievements and an understanding of the relationships among people, their cultures and their natural environment. By providing a stronger historical consciousness, they sharpen a citizen's sense of responsibility to family and society.

A general education provides the base on which a student can build a strong specialization while having the flexibility that a changing society demands. Specialized skills are needed in a complex environment, but the rapidity of technological change often requires the acquisition of new specialties. A sound general education provides the skills and knowledge which individuals will always need to develop their potential and meet the challenges and opportunities of the future.

Objectives

Lamar University's "Ways of Knowing" core curriculum satisfies the criteria for compliance with the mandates of Senate Bill 148 (75th Legislature) and for consistency with the statement, recommendations and rules of the Texas Higher Education Coordinating Board regarding core curricula. Lamar's core curriculum includes the basic competencies, which have long been seen by society as the minimal requirement of an educated person. Further by synthesizing the core curriculum into a "Ways of Knowing" or methods of inquiry focus and by emphasizing the application of methods of inquiry in the humanities and the sciences, this core addresses the goals of coherence and distinctiveness.

The core is designed to further develop in students the abilities to think critically, to communicate effectively and to understand the major social and personal issues of the times. Core courses include emphases on research, writing and speaking. Core courses encourage participation in university and community organizations and activities.

Components of the Philosophy of Knowledge Core

I. Philosophy 1370—three semester hours

A freshman-level survey of major knowledge systems, presuppositions and methodologies.

Transfer Students: See Note #3 below.

II. Methods of Inquiry in the Humanities

Freshman English Composition—six semester hours. English 1301 (or English 1360-Honors) and either 1302 or 1374. A passing score on THEA writing test or satisfactory completion of the developmental English course (Developmental Writing 0371) is a prerequisite to admission to English 1301.

Literature—three semester hours. Three-hour sophomore-level literature course.

Communication—three semester hours. Communication 1315, 1360, 2335, 2373, 3310 or 3340; or an introductory modern language course (including CMDS 2305).

American History—six semester hours. Texas law requires six hours in American History. This shall be satisfied by completing two courses from History 1301, 1302, 2373, 2374, 1361, 1362 or 2377. Three semester hours may be satisfied by an advanced standing examination or by History 2301.

Fine Arts—three semester hours in a visual or performing art. Art 1301, Dance 2304, Humanities 1315, Music 1306 or Theatre 1310.

III. Applications of the Scientific Method of Inquiry

Political Science—six semester hours. Texas law requires six hours in political science, which includes consideration of the U.S. Constitution and the Texas Constitution. This shall be satisfied by completing Political Science 2301 and 2302. Three semester hours may be satisfied by an advanced standing examination.

Mathematical Science—six semester hours. Three semester hours in mathematics at or above the level of college algebra (MATH 1314) and three semester hours in mathematics (at or above the level of trigonometry-MATH 1316) or in Methods of Quantitative Data Analysis. Approved courses in the latter category are BUAL 3310, INEN 2301, MATH 1342, MATH 3370 and PSYC 2471.

Laboratory Sciences—eight semester hours. (biology, chemistry, geology or physics courses that contain a laboratory component.)

Social Science—three semester hours. A course from one of the following: Anthropology 2346 or 2351, Economics 1301 (for non-Business majors or minors), Psychology 2301 or Sociology 1301. **Business majors must take both Economics 2301 and 2302 to satisfy degree requirements.**

IV. Physical Education Activity—one semester hour of physical activity

Notes:

1. When there are course options, consult the individual department or program to determine if there is a recommended or specified course preference.
2. Carefully observe any prerequisites listed in the Catalog for approved courses.
3. **Transfer Students** from a junior or community college who have completed the Associate Degree and/or are in a 2 + 2 plan may satisfy the Philosophy 1370 (Philosophy of Knowledge) Core requirement by having taken Philosophy 1301 (Introduction to Philosophy) or its equivalent.

Accreditation

Lamar 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; website www.sacscoc.org, to award degrees at the Associate, Baccalaureate, Master's and Doctoral levels. In addition, Lamar is approved by the Texas Education Agency.

Several departments and programs are accredited by professional agencies. In the College of Engineering, the programs in Chemical, Civil, Electrical, Industrial and Mechanical Engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. Computer Science is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology. The undergraduate and graduate programs of the College of Business are accredited by the International Association for Management Education.

Other accreditations include Nursing by the National League for Nursing Accrediting Commission, the Department of Chemistry by the American Chemical Society; the Department of Geology by the American Institute of Professional Geologists; Department of Music by the National Association of Schools of Music; Dietetics program by the American Dietetic Association; the program in Social Work by the Council on Social Work Education and programs in Speech-Language Pathology by the American Speech-Language-Hearing Association and in Deaf Education by the Council for Education of the Deaf. The University also is a member of many academic councils, societies and associations.

Policy Regarding Review of Institutional Accreditation Documentation

Persons wishing to review documentation regarding the institution's accreditation, approval or licensing may do so by contacting the Office of the Executive Vice President for Academic Affairs, Room 101 in the Plummer Building (409-880-8398).

Teacher Certification

All teacher education programs of the University are approved by the Texas Education Agency and the State Board of Educator Certification. Students seeking teacher certification should consult the Director of Professional Services, College of Education and Human Development (409-880-8902), regarding requirements.

Organization

Lamar University is organized into six colleges. These are Arts and Sciences, Business, Education and Human Development, Engineering, Fine Arts and Communication and Graduate Studies. Within each college are academic departments and programs. Each college is headed by a dean, and each department is headed by a department chair.

Degree Offerings

Associate of Science in Nursing

Bachelor of Applied Arts and Sciences

Bachelor of Arts in Chemistry, Criminal Justice, Dance, English, French, History, Mathematics, Political Science, Psychology, Sociology, Spanish, and Theatre

Bachelor of Business Administration in Accounting, Economics, Finance, General Business, Management, Marketing, Office Administration, Human Resources Management and Management Information Systems

Bachelor of General Studies

Bachelor of Fine Arts in Graphic Design and Studio Art

Bachelor of Music

Bachelor of Science in Biology, Chemistry, Communication, Communication Disorders, Computer Science, Criminal Justice, Dance, Earth Science, Economics, Education Interdisciplinary Studies, Environmental Science, Family and Consumer Sciences, Geology, Graphic Design, Health, Kinesiology, Mathematics, Medical Technology, Nursing, Physics, Political Science, Psychology, Sociology, Studio Art and Theatre and the following Engineering Fields: Chemical, Civil, Computer Information Sciences, Electrical, Industrial, Mechanical and Industrial Technology

Bachelor of Social Work

Master of Arts in English and History

Master of Business Administration

Master of Education in Educational Technology Leadership, Elementary Education, Guidance and Counseling, Administration, Secondary Education, Special Education and Supervision

Master of Engineering

Master of Engineering Management

Master of Engineering Science

Master of Music

Master of Music Education

Master of Science in Applied Criminology, Audiology, Biology, Chemistry, Community Psychology, Computer Science, Deaf Studies/Habilitation, Environmental Engineering, Environmental Studies, Family and Consumer Sciences, Industrial and Organizational Psychology, Kinesiology, Mathematics, Nursing, Speech-Language Pathology and Theatre

Master of Public Administration

Doctorate of Audiology (pending)

Doctor of Education in Deaf Education

Doctor of Engineering

Entering Dates and Enrollment Opportunities

Courses and schedules have been arranged so students may enter Lamar four times each year. The current University Calendar contains information regarding registration periods and exact entering dates.

Evening Classes

Classes offered after 5 p.m. are considered Evening Classes, sometimes called Extended Day Classes. Evening classes, with few exceptions, are taught by the regular faculty. Persons employed during the day may attend classes in the evening and study to obtain a degree or to expand their knowledge in a special field of interest as an adult non-degree student. Admissions and Registration Services are available in the Wimberly Student Services Building.

Mini-Sessions

Lamar University offers mini-sessions between the end of the fall semester and the beginning of the spring semester (December Mini-Session), and between the end of the spring semester and the beginning of the first summer session (May Mini-Session). Students are limited to one course per mini-session. For additional mini-session policies, students should consult their academic advisor.

Distance Education

Lamar University offers distance education courses via several delivery methods. Web-based courses are accessed via the Internet. Students can take these courses from any location and have flexibility to work on their course at any time. Interactive video courses are available at selected Region 5 Education Service Center high schools via interactive television. The professor teaches from a university on-campus classroom, and students at the receive site can see, hear and interact with the professor and students at Lamar University. Telecourses are broadcast on local cable television. Students may also check out video tapes for the telecourse from the Gray Library. Instructors are available by phone, appointment or email. Students come to campus for their telecourse exams. Off-campus courses are delivered at night by university professors and are available at several sites. For information on distance education courses, call the Center for Distance Education at (409) 880-1847 or visit the website: <http://dept.lamar.edu/cde/>.

Alumni Affairs

The Lamar University Alumni Association, which includes graduates and ex-students, is active on a year-round basis. The Executive Director of the Association maintains an office in the John Gray Center, Building B, Suite 103, located at 855 Florida Ave., (409-880-8921). This office coordinates all events and activities for alumni ranging from fund-raising to social events. Some of these include chapter activities, reunions, homecoming and Distinguished Alumni Awards. It also administers 31 Presidential Scholarships donated by alumni and friends. These scholarships are awarded to eligible incoming freshmen and are among the most coveted scholarships offered by Lamar University.

Bookstore

The Lamar University Bookstore is located in the Setzer Student Center. The lease-operated bookstore features new and used textbooks for the school year, trade books, course materials, school supplies and officially licensed Lamar University Cardinal and Lamar Institute of Technology merchandise.

Continuing Education

Continuing Education is a multi-division of programs and services designed to meet the changing needs of Southeast Texas. Within this division are the Center for Adult Studies, Continuing Education Programs, Center for Industrial Fire and Hazardous Materials Training, Spindletop/Gladys City Boomtown Museum, and a variety of other special programs which provide unique educational opportunities.

The Center for Adult Studies coordinates distance learning credit courses and provides point-of-entry advising for adults who are considering returning to college or beginning college. The Center also houses the advising office for the Bachelor of Applied Arts and Sciences degree program. Distance learning classes allow students to earn credits toward degrees using locations and technologies that are convenient and accessible.

The Continuing Education Program serves as a link between Lamar University and the community to meet educational, cultural and training needs. Non-credit certification programs and courses help students build professional skills or provide entrance into new career fields. Programs cater to a wide segment of the population ranging from summer youth programs to college experiences for those aged 65 or older. Customized contract training for business and industry, along with seminar and conference organizational services are also provided.

The Center for Industrial Fire and Hazardous Materials Training provides training to business, industry and government personnel. The Lamar University fire-fighters training program is one of four in the nation that has been recognized by the United States Occupational Safety and Health Administration to train personnel in fighting chemical and hydrocarbon fires. The Center hosts industrial fire brigade training, rescue courses, marine fire training, hazardous materials workshops, instructor training courses and incident management.

Other programs administered by the Division of Continuing Education include the Spindletop-Gladys City Boomtown Museum and the LU Community Outreach Program, which assists individuals and families in the Washington Apartment Homes/West Oakland/Pear Orchard community achieve personal, social and economic self-sufficiency and enhance the neighborhoods and community in which they live.

Continuing and Distance Education administrative offices are located in the Montagne Center. To learn more about these programs, call (409) 880-8209.

Early Childhood Development Center

Lamar University Early Childhood Development Center is located at 950 East Florida. The Center is accredited by the National Association for the Education of Young Children and provides high-quality extended child care services and preschool/pre-kindergarten programs designed for children between the ages of 18 months and 5 years. The Center is home to a special program called "Super Kids." The science-based, interactive program for first- through third-graders is taught in one-week sessions.

Information Technologies (Central Computing)

The Information Technologies Division is responsible for providing the computing services required by the academic, administrative and research communities of Lamar University.

Central Computing, a department of the division, is located in the Cherry Engineering Building. The facility consists of an ES40 Alpha processor running the administrative software systems for Lamar University with 2 gigabytes of RAM and 702

gigabytes of storage, a DS20 Alpha Server with 512 megabytes of RAM and 54 gigabytes of disk storage running OpenVMS, a DEC 2100 Alpha Server with 256 megabytes of RAM and 18 gigabytes of disk storage running True64UNIX, the Lamar Web Server running Windows NT 4.0 and two Lamar Departmental Web Servers running Windows NT 4.0 and Windows 2000. Central Computing established and maintains an onsite and offsite disaster recovery contingency facilities in the event of a disaster. The facilities house the equipment for the administrative systems. Languages support by the Central Computing department are ADA, Basic, C, C++, FORTRAN, LISP, PASCAL, and JAVA. Software packages include MATLAB, SPSS, SAS, and IMSL. Also maintained are a DEC 2100 Server for the Library running OpenVMS and phone/web registration machines. All computer systems are connected to the University's fiber optic backbone using gigabit Ethernet. There are three 2100 lpm printers and three 50 ppm laser printers for student and faculty use.

Central Computing is open 24 hours a day from 7 a.m. on Monday to 7 a.m. on Saturday. Reports and accounts may be picked up from 7:30 a.m. to 7 p.m. Monday through Friday. The machines are available 24 hours a day, except once a week when full backups are performed on all servers.

A student entering Lamar University is given a computer account by Central Computing. New student and new faculty accounts are generated by the fourth class day of each semester. In order to activate an account, a student or faculty member must come to the Central Computing window in the Cherry Building and present his/her Lamar ID. Accounts remain active as long as a student is enrolled or a faculty member is employed, unless the Computer Use Policy is violated. Central Computing's web site is http://hal.lamar.edu/%7Eluis/Cc/CC_Main.htm.

Lamar Language Institute

The Lamar Language Institute (LLI) is a non-academic English training program, offering *full-time* study of English as a Second Language during fall, spring and summer sessions. LLI intensive courses provide English training for international, college-bound students as well as non-native speakers of English living and working in the community.

Permanent residents may study *part-time* in our program, which includes intensive work in all language skill areas: writing, grammar, reading, vocabulary, listening comprehension, conversation and pronunciation.

Our *full-time* course provides over 20 hours of ESL instruction per week for 70 class days within the fall and spring semesters. Our summer sessions provide more than 100 hours of ESL instruction during a ten-week period.

As an integral part of training and study, the LLI and Lamar University offer our students a variety of social activities, both on and off campus. Many of these activities are free of cost and do much to enhance the learning of English while also providing enjoyable opportunities to have meaningful contact and communication with Americans.

Beyond these regular courses, the LLI also provides developmental writing and reading courses for non-native speakers of English who have yet to satisfy THEA requirements. The LLI also offers customized corporate training plans, which include on-site instruction of English as a Second Language and English for Special Purposes. Additional information is available by calling (409) 880-8586, e-mailing language@hal.lamar.edu or writing Lamar Language Institute, P.O. Box 10058, Beaumont, Texas 77710.

Library

The eight-story Mary and John Gray Library building dominates the campus from its central location. The Library occupies seven floors with on-line public access catalog to more than 1,000,000 volumes and more than 5,000 print and electronic periodicals. Seating accommodates 1,200 students and faculty.

The first floor service areas include circulation, reference and inter-library loans. The second floor houses reserve reading, current periodicals and government documents. Four floors provide stacks for books and periodicals shelved in Library of Congress classification sequence from class "A" on the third floor through class "Z" on the sixth floor.

The seventh floor houses the library's administrative offices, Media Services Department, computer lab and special collections.

The eighth floor offers expansion space for the future, but is presently shared with other University services. This spacious and elegant floor, furnished by community donors, serves as a University Reception Center for meetings and conferences.

Expanding library collections support continuously evolving academic programs. In addition to a strong collection of books, electronic information and periodicals, the Library provides access to state and federal government documents and participates in the library networks that extend access to information resources. The Library coordinates multimedia programs on campus and has a basic collection of equipment and materials for central distribution.

Montagne Center

The 10,000-seat Montagne Center, home of the Lamar University basketball and volleyball teams, is a multipurpose facility that provides opportunities for educational and extracurricular programs. The center houses the athletic offices, ticket office and continuing and distance education programs.

Mail Centre

The Lamar University Mail Centre is located at 211 Redbird Lane in the Services building. Hours of operation for window services are 8 a.m. to 4:45 p.m. Monday through Friday. The University Mail Centre is a contracted facility operated by the University and is officially designated as Lamar University, 77710. Full postal services are offered, including stamp sales for domestic/international mail, United Parcel Service, mail forwarding, express courier deliveries and bulk mail processing (including folding, tabbing and inserting services).

Students, staff and faculty may rent postal boxes semesterly or annually. Box sharing is prohibited. Mail is received from U.S. Postal Services at 6:45 and 9 a.m. daily Monday through Friday. Outbound stamped and metered mail are dispatched daily at 5 p.m.

Research Office

The Research Office is administered by the Associate Vice President for Research, who chairs the Research Council. This office promotes and funds internal research; oversees sponsored programs and technology transfer as well as patent, copyright and intellectual property policies; establishes liaison between the university and state and national funding sources; and assures that proposed projects comply with institutional

and governmental regulations. This office also provides assistance to faculty in the development and submission of grant/project proposals by locating funding sources and providing editorial assistance in proposal preparation.

Services for Students with Disabilities

The Office of Services for Students with Disabilities (SFSWD) offers a variety of services designed to assist students with disabilities in becoming fully participating members of the university community. Some of the services provided include academic accommodations, assistive equipment, interpreters, note-takers, physical access and priority registration. Documentation of a disability from a professional in the field is required to receive services.

Students with disabilities should notify the coordinator of SFSWD prior to registration in any university program. The coordinator will arrange a meeting with the student to determine an individualized educational plan.

The Office of Services for Students with Disabilities is located in 101A Wimberly Building. Students may write to P.O. Box 10087, Beaumont, Texas 77710, call (409) 880-8026 or fax (409) 880-2225. Additional information is available at the SFSWD web site, <http://dept.lamar.edu/sfswd>.

Spindletop-Gladys City Boomtown Museum

The Spindletop-Gladys City Boomtown Museum, is located at University and Cardinal Drives (Highway 69). It has artifacts, exhibits and 15 buildings that re-create the early days of the oil industry in Texas, which began on January 10, 1901, when oil was discovered and the Lucas Gusher blew in at Spindletop Hill not far from the present Lamar campus. Gladys City is a re-creation of a boomtown that sprang up at Spindletop after the Lucas discovery.

Gladys City is open from 1 to 5 p.m. Sunday, and from 10 a.m. to 5 p.m. Tuesday through Saturday (closed Monday). Admission is \$3 for adults, \$2 for children age 6 to 12 and for senior citizens. Lamar students with current identification cards and children under 6 are admitted free. Private groups may rent the facilities. Telephone (409) 835-0823 or write to P.O. Box 10070, Beaumont, Texas 77710 for further information.

Smoking Policy

Lamar University is a non-smoking campus, and smoking is not allowed in any university facility. More specifically, smoking is prohibited in all academic classrooms, laboratories, meeting rooms, restrooms, locker rooms, coffee areas, supply storage areas, lobbies, corridors, reception areas, offices, and university vehicles. The cafeteria, dining halls, or other eating areas are nonsmoking areas. This nonsmoking policy applies to university facilities used by off-campus groups as well as university groups.

University Advancement

The Division for University Advancement encompasses development, public relations, alumni affairs and operation of the University Reception Center. It also serves as a liaison to the Lamar University Foundation. Advancement works closely with the president in raising external funds for student scholarships, endowed faculty positions and other university programs. The Division coordinates fund-raising for all campus constituencies.

Alumni affairs coordinates all activities and events for Lamar University alumni. These include chapter activities, reunions, homecoming and Distinguished Alumni Awards. Offices are located in the John Gray Center, Building B, Suite 103, located at 855 Florida Ave.

Public relations coordinates all media relations, publications and institutional marketing activities for the university, including its print, broadcast and World Wide Web presence. Advancement supports student recruitment, fund-raising and special events through the development of products and materials and provides Web support for the university. The division also publishes the quarterly university magazine, *Cardinal Cadence*, mailed to more than 50,000 alumni and friends of the university.

Veterans' Affairs Office

A Veterans' Affairs Office is maintained in the Wimberly Student Services Building to aid veterans in obtaining their educational benefits. It also provides academic assistance and counseling. Veterans are encouraged to complete admissions and testing requirements 90 to 120 days prior to the period for which they wish to enroll. Additional information about veterans' programs may be found in the Fees and Expenses section of this catalog.

The Writing Center

The Writing Center provides assistance to Lamar University students with their writing projects. The center's goal is to help students grow and mature as writers by providing help with difficulties they may have in academic writing. A student may work one-on-one with a writing consultant during individual tutorials. Consultants may be peers, professionals, graduate students, part-time instructors or full-time teachers who meet individually with student-writers for specific help or general instruction. Some writers seek help on their own; others appear at the recommendation of teachers, and in some cases, writers may work in the center as a required part of their coursework.

Writing consultants facilitate the process of writers finding their own answers. Consultants may engage writers in discussions of their topics so writers can develop their own ideas and practice the phrasing and vocabulary relative to academic discourse. Consultants may also offer reader feedback on developing drafts of papers by suggesting writing strategies, by reviewing misunderstood or missing information and by helping students gain perspective on their writing. Since the Writing Center is a teaching center, the goal of each tutoring session is learning, not a perfect paper. Consultants will not simply proofread or edit any student writing. Even after being tutored in the Writing Center, students must continue to accept full responsibility for any writing submitted for evaluation as an accurate representation of their own abilities.

Located in Maes 208, the Writing Center features 29 personal computers with a variety of software programs, including Microsoft Word, Access, Excel, Power-point, Front Page and Internet Explorer. Lamar University students can use the computer facilities during normal hours of operation for the center, provided the center is not reserved as a computer classroom. For more information or to make an appointment for a consultation, contact the Writing Center at (409) 880-8571.

Admissions

Applicants for admission to the University are required to meet the academic requirements outlined in this bulletin or other applicable publications of the University. Both the College of Graduate Studies and the Lamar Institute of Technology publish their own catalogs and require special application forms. The Office of Admission Services, located in the Wimberly Student Services Building, provides complete admissions counseling for entering students. Professionally trained personnel assist prospective students in assembling all admission credentials so transition into a college environment can be made as smooth and problem-free as possible. All initial inquiries to the University should be made to this office by writing P.O. Box 10009, Lamar University Station, Beaumont, Texas 77710 or by calling 409-880-8888.

Requirements for Students Entering from High Schools

An applicant is required to have graduated from an accredited high school and to have submitted SAT or ACT entrance examination scores. Minimum score requirements are specified in paragraph I.B. below. Applicants who have attended another college or university cannot disregard that enrollment and seek admission only on the basis of their high school records. Equivalency diplomas granted on the basis of GED scores will not fulfill entrance requirements.

The admissions requirements are:

I. Unconditional Admission

A. Granted to students who meet the following prerequisites:

1. Attainment of a high school diploma from an accredited high school AND
2. Successful completion of 14 high school units in college preparatory courses including:
 - a) 4 units in college preparatory English courses (English I, II, III, and IV or English IV-academic or higher level English courses).
 - b) 3 units of college preparatory mathematics courses (Algebra I, II, Geometry, or higher level mathematics courses).
 - c) 2 units of laboratory science courses (any 2 units from Physical Science, Biology I, II, Chemistry I, II, Physics I, II, or Geology).
 - d) 2-1/2 units of social science courses (U.S. History, 1 unit, and U.S. Government, 1/2 unit, and World History Studies, 1 unit, or World Geography Studies, 1 unit).
 - e) 2-1/2 units of approved college preparatory course electives. 2 units of foreign language are recommended.

B. In addition, all applicants must submit SAT or ACT scores. Students must graduate in the top one-half of their high school class OR achieve a minimum composite score on the SAT/ACT as follows:

Rank in High School Class	Minimum Score Required in one of the Following Tests	
	SAT	ACT
1st Quarter	no minimum score required	
2nd Quarter	no minimum score required	
3rd Quarter	1000	21
4th Quarter	1100	24

II. Individual Approval Admission

- A. Applicants who fail to meet the requirements for Unconditional Admission may be considered on an Individual Approval basis. A limited number of applicants may be admitted under this provision.
- B. Students admitted as "Individual Approvals" are subject to the following provisions:
 1. Mandatory advisement
 2. Maximum enrollment in 6 credit hours in a summer semester and 14 hours in a fall or spring semester (except that such students may, with the approval of the academic advisor, additionally enroll in a one-credit-hour activity course).
 3. Successful completion of at least 9 credit hours of collegiate (i.e., non-developmental) courses including ENGL 1301 or MATH 1314 (or a higher numbered math course) with a GPA of 2.0 or higher within 12 months of their first registration at Lamar University.
- C. Students who do not satisfactorily complete the provisions of Individual Approval admission will be denied readmission to Lamar University for one long semester.

III. Exceptions

- A. Any applicant over 25 years of age will be granted admission with proof of high school graduation and presentation of SAT or ACT scores.
- B. A non-high school graduate who is at least 18 years of age may apply for admission under Individual Approval provisions. Such applicants must 1) demonstrate the aptitude and seriousness of purpose to successfully pursue a college course of study, and 2) furnish evidence of preparation substantially equivalent to that required of other applicants. Evidence must include a GED, SAT or ACT scores, and transcripts of previous academic work.
- C. Graduates of home schools or non-accredited high schools must submit transcripts of high school work and SAT or ACT scores. Applicants will be reviewed in accordance with transcript course requirements as listed in Admissions Requirement I. A. 2. and must satisfy minimum SAT or ACT minimum score requirements. Applicants who fail to meet the requirements of unconditional admission may be considered on an Individual Approval basis.

IV. Summer Bridge Program

Any student who has been denied admission, or who has been accepted on an Individual Approval basis, may enroll in the University's Summer Bridge Program. Students who successfully complete the requirements of the Summer Bridge Program will be admitted into the following fall semester.

V. Additional Requirements

In addition to these general admission standards, Lamar University pre-professional and professional programs may require separate, more rigorous standards commensurate with the demands of the various programs.

Summer Bridge Program

The Summer Bridge Program is a voluntary summer program offered to students who have been accepted under Individually Approved admission status, as well as to applicants who have been denied admission in accordance with the university's published admission criteria. This program combines academic advisement, a mandatory

tutorial program, THEA required development course work, and regular college course work to prepare and assist students for fall semester admission. Any Individually Approved student who successfully completes the bridge program may enroll as a regular student for the fall semester without IA provisions. Any originally denied student who successfully completes the bridge program may enroll as an Individually Approved student for the fall semester with IA provisions. Specific program requirements are available through the Office of Admissions.

Entrance Examination Requirement

Applicants may submit either SAT or ACT scores in fulfillment of the entrance examination requirement. These examinations are required for entrance purposes. Both tests are given several times each year at test centers throughout the United States and in many foreign countries. It is recommended that summer and fall applicants take one of the tests early in the senior year and, if possible, no later than February. Location of test centers, test dates, fees, test application forms, sample question booklets and similar information may be obtained without charge from high school counselors or from the Lamar University Testing Services Office located in room 102 Galloway Business Building. Other SAT inquiries may be directed to the College Entrance Examination Board, Box 1025, Berkeley, California 94702. ACT inquiries should be directed to the American College Testing Program, Box 168, Iowa City, 0828 Iowa 52240.

Achievement tests are not required, but in many cases are recommended. Students whose high school records are outstanding should consider taking achievement tests for advanced placement.

How to Apply

1. Submit application for admission on an official form.
2. Take the Scholastic Aptitude Test (October, November or December dates preferred) or the American College Test (October or December dates preferred) and designate Lamar University to receive score reports.
3. Submit a copy of your current high school transcript to Lamar University.
4. Have final high school transcript sent to the Lamar University Admissions Office immediately after graduation. Final certification of graduation is required.

When to Apply

It is recommended that new and former students complete an application for admission and submit all required documents by the following dates.

Fall semester	August 1
Spring semester	January 2
Summer I semester	May 25
Summer II semester	July 1

Applications received after these dates will be considered as time allows.

Acceptance Notices

Acceptance notices normally are issued shortly after the required admission credentials are received. Registration information and general instructions are included. Lamar University has no student quota. All applicants who meet entrance requirements are generally accepted.

On-Campus Living Requirement for Freshman

The Board of Regents has established a freshman residency policy that states: "All undergraduate, full-time students (those enrolled in 12 or more semester credit hours) with fewer than 24 earned semester credit hours are required to reside in a University-operated residence hall." Exemptions may be granted for those who 1) reside with a parent, guardian, or other adult relative; 2) are 21 years of age by the first class day; 3) enroll only in evening classes; 4) are married or have dependent children; 5) have a medical exemption signed by a doctor; or 6) have earned 24 or more credit hours. Official documentation verifying exemptions to this policy may be required by the University Housing Office. Questions concerning this policy should be directed to the Housing Office at (409) 880-8111.

Residency Status

A student's state of residency is determined prior to first enrollment in accordance with rules and regulations established by the Texas State Legislature and the Texas Higher Education Coordinating Board. Detailed information on residency is available in the Admissions Office and the Office of Academic Services, by calling (409) 880-8888, or direct link on the Lamar University web site, www.lamar.edu.

New Student Orientation

New student orientation is held during the summer months and is designed to acquaint the new student with campus facilities and services and to give the individual student an opportunity to confer with University department advisors about an academic program. Registration for the Fall semester may be completed at this time and tuition and fees may be paid. Advance reservations for the Summer orientation sessions are required. Details of the program, including dates, cost and reservation form, are sent to new students with admission acceptance notices.

Academic Advising

Academic advisement is available to all Lamar University students and is mandatory for the following students: 1) freshmen, (30 or fewer earned semester credit hours), 2) new transfer students, 3) THEA-restricted/Individual Approval students, 4) General Studies majors, 5) students on academic probation or returning from academic suspension, and 6) students changing majors. Departments and colleges also may require advisement for their majors. All other students may choose not to receive formal advisement, but will be solely responsible for their scheduling and registration decisions.

College advising centers have been established to assist students in designing a program of study meeting the degree plan requirements of the department and guide the student in the proper sequence of courses. Faculty advisors also are assigned. It is the responsibility of the student to schedule regular appointments with the advisor. Appointments and other advising/counseling services may be facilitated through the college advising centers.

Advising sessions assure that a program of study is pursued in the proper sequence and proper academic progress is maintained by the student. College advising centers maintain degree plans for each academic major.

Students who have not declared a major field of study are advised in the Center for General Studies, phone 880-8907. Such students will be assisted with course selection and the completion of core curriculum requirements. In addition, students will be

offered the opportunity to explore various majors and careers through advising, guest speakers, faculty representatives, and related activities.

Students who are THEA-restricted and/or under the provisions of Individual Approval admission—with or without a declared major—are advised in the Office of Developmental Studies, 110 ROTC Building, phone 880-8954.

University Advising Centers

1060 B East Virginia, Phone: 880-8907

All Lamar University students are encouraged to receive academic advisement prior to registration. The University provides several academic advising centers to assist students with course selection and registration. The Center for General Studies (1060 B East Virginia, phone 880-8097) provides assistance and guidance for students who have not selected a major and who are exploring various major field options. The Center also assists students with course selection and the completion of the core curriculum. Interaction with advisors and activities throughout the semester are designed to help students clarify their academic goals. Advising centers for students interested in business (120 Galloway Business Building, phone 880-8607) and engineering (2608 Cherry Building, Phone 880-8810) are available also. Students who are THEA restricted and/or subject to provisions of Individual Approval admissions are advised in the Office of Developmental Studies (110 ROTC Building, phone 880-8954).

Credit by Examination

Lamar University students may qualify for college credit and/or advanced standing through optional testing programs. Students may qualify for credit through the College Level Examination Program (CLEP), Advanced Placement Examinations (AP) or SAT II-Subject Tests.

Except for satisfying the course work in residence and the state-mandated American History and American Government requirements, credit earned by examination is equivalent to credit earned by taking the course and may be used to satisfy bachelor's degree requirements as defined in the catalog under "Degree Requirements."

1. College Level Examination Program (CLEP)

Lamar University awards credit on the basis of most of the Subject Examinations of the College Level Examination Programs. The essay sections of the English Composition and literature examinations are required and the final determination for the awarding of equivalent English credit is based solely upon the strength of the written essays. Credit will not be awarded by examination to students who have prior credit for the same course or its equivalent. Grades will not be assigned, nor will hours be used in the computation of grade point averages.

CLEP CREDIT-GRANTING STANDARDS

Composition and Literature

Examination	Credit-Granting Score	Credit Granted	Equivalent Course
American Literature	50	3 hours	* English 2326
Analyzing and Interpreting Literature	50	3 hours	* English 1302

Composition Freshman	50	3/6 hours	* English 1301, 1374
English British Literature	50	3 hours	* English 2322

**Note: To receive CLEP credit for composition or literature classes, students must achieve the established credit-granting score of 50 (or higher), AND complete the optional essays. Essays are graded by Lamar University Department of English and Foreign Languages faculty. The final determination for awarding of equivalent credit is based solely upon the strength of the written essays.*

Business

Examination	Credit-Granting Score	Credit Granted	Equivalent Course
Accounting, Principles of	50	6 hours	Accounting 2301/ Accounting 2302
Business Law, Introduction	50	3 hours	Business Law 3310
Information Systems and Computer Application	50	3 hours	*See Note
Management, Principles of	50	3 hours	MGMT 3310
Marketing, Principles of	50	3 hours	Marketing 3310

**Note: A student, after passing the Information Systems and Computer Applications CLEP Exam, must then demonstrate on a Program or Package Usage test in the Computer Science department before they may receive credit in the following 3-hour course: COSC 1371.*

History and Social Sciences

Examination	Credit-Granting Score	Credit Granted	Equivalent Course
American Government	50	3 hours	Political Science 2302
Educational Psychology	50	3 hours	PEDG 3320
Introduction to History of the United States I: Early Colonializations to 1877	50	3 hours	History 1301
History of the United States II: 1865 to the Present	50	3 hours	History 1302
Human Growth and Development	50	3 hours	PSYC 2308
Macroeconomics, Principles of	50	3 hours	Economics 2301
Microeconomics, Principles of	50	3 hours	Economics 2302
Psychology, Introduction	50	3 hours	Psychology 2301
Sociology, Introduction	50	3 hours	Sociology 1301
Western Civilization I: Ancient Near East to 1648	50	3 hours	History 2321
Western Civilization II: 1648 to the Present	50	3 hours	History 2322

Science and Mathematics

Examination	Credit-Granting Score	Credit Granted	Equivalent Course
Algebra	50	3 hours	Math 1314
Algebra-Trigonometry	50	3 hours	Math 2312
Biology	50	6 hours	General Biology
Chemistry	50	6 hours	General Chemistry
Calculus with Elementary Functions	50	4 hours	Math 2413
Trigonometry	50	3 hours	Math 1316

Foreign Language

Examination	Credit-Granting Score	Credit Granted	Equivalent Course
French, Level 1	50	6 hours	French 1311, 1312
French, Level 2	62	12 hours	French 1311, 1312, 2311, 2312
German, Level 1	50	6 hours	German 1311, 1312
German, Level 2	63	12 hours	German 1311, 1312 2311, 2312
Spanish, Level 1	50	6 hours	Spanish 1313, 1314
Spanish, Level 2	66	12 hours	Spanish 1313, 1314, 2311, 2312

2. Advanced Placement Examinations

Applicants who wish to receive credit for college-level work completed in high school may do so by submitting scores from the College Entrance Examination Board's Advanced Placement Examinations. Examinations are given each May by high schools. Arrangements are made through high school counselors. Subject matter areas and the basis for granting credits are listed as follows:

Subject Area	Required Score	Credit Granted
Art	Score of 3 or above	Art 1316 or Art 1311
Biology	Score of 3 or above	Biology 1406-1407
Calculus		
AB Test	Score of 3 or above	Math 1325 or Math 2413
BC Test	Score of 3 or above	Math 2312, 2413 and 2414
Chemistry	Score of 3 or above	Chemistry 1411
Computer Science		
A Test	Score of 4 or 5	Comp. Sci. 1373
AB Test	Score of 4 or 5	Comp. Sci. 1373 and 1374
Economics (Micro)	Score of 3 or above	Economics 2302
Economics (Macro)	Score of 3 or above	Economics 2301
English Lang Comp	Score of 4 or 5	English 1301-1302
	Score of 3	English 1301

English Lit Comp	Score of 3 or above	ENGL 1302
Foreign Language	Score of 3	1311 or 1313
	Score of 4	1311 or 1313, 1312 or 1314
	Score of 5	1311 or 1313, 1312 or 1314, 2311
Government/Compar.	Score of 3 or above	3 hours elective (non-advanced)
Government/Pols	Score of 3 or above	Political Sci. 2302
History/American	Score of 3 or above	History 1301-1302*
History/European	Score of 3 or above	History 2321-2322
Music	Score of 3 or above	MUTY 1311
Psychology (GEN)	Score of 3 or above	PSYC 2301
Physics B	Score of 3 or above	Physics 1401-1402
Physics C (Mechanics)	Score of 3 or above	Physics 2425
Physics C (E & M)	Score of 3 or above	Physics 2426
Statistics	Score of 3 or above	MATH 1342
Western Civ	Score of 3 or above	HIST 2321

*State law requires three semester hours of classroom instruction in some phase of American History in addition to credit by examination.

3. Advanced Standing Examinations

Advanced standing examinations are intended only for those students who have had the equivalent, in formal or informal training, of the work being presented in the course in question. Credit may be granted to those who pass departmental advanced standing examinations with a grade of "B" or better. Normally, departmental examinations will be given only if CLEP subject examinations are not available.

To secure permission for such examinations, a student must obtain the written permission of the dean of the college and the department chair responsible for the course. A fee must be paid to the Cashier's Office. Forms are available in the office of the department chair. Advanced standing examinations will not be approved for skill courses. A student having received a grade (passing or failing) in a course may not take an advanced standing examination in that course.

Admission Requirements for College Transfers

Students who have attended another college or university will be considered for admission to Lamar University under the requirements listed below. Former students of Lamar who attend another university other than during a summer term will also have to meet the following transfer admission requirements:

1. Submit application for admission.
2. Have an official copy of all college and/or university transcripts on file by application deadline.
3. Be eligible to re-enter all colleges and/or universities previously attended.
4. Have a cumulative grade point average of at least 2.0 on a 4.0 scale for all work attempted.
5. Students who transfer less than 18 hours must also submit and meet the entrance credentials and requirements of a first-time-in-college student.
6. Applicants not fully meeting all transfer requirements may be reviewed and considered for admission on an individual basis.

How to Apply for Admission

The following procedure should be followed in making application for admission. All credentials should be sent to the Office of Admissions, Lamar University, Box 10009, Beaumont, Texas 77710.

1. Submit application for admission on the official form.
2. Submit official transcripts from each college previously attended. This requirement applies regardless of the length of time in attendance and regardless of whether credit was earned or is desired. Students will not be allowed to register until all college transcripts are on file in the Admissions Office.
3. Students transferring fewer than 18 semester credit hours must take the SAT or ACT and/or have a record of these scores sent to the Office of Admissions.

When to Apply

Application should be made a minimum of two or three months in advance of the proposed enrollment date. The application form should be submitted **before** transcripts are sent.

A temporary admission may be granted if the time between the end of a semester elsewhere and the beginning of a subsequent semester at Lamar is too short for the transcript(s) to be received before registration. All credentials must be on file at Lamar within one week after the first class day, or the student will be withdrawn from the University. Students on temporary admission status who are subsequently found to be ineligible for admission will be withdrawn.

Transfer applicants must submit official transcripts from all previously attended institutions. Students who are currently enrolled at another institution must also submit a supplemental transcript upon completion of the semester in progress at the time of their application to Lamar.

Transfer Credit Evaluation

Credit earned at other accredited institutions will be considered for credit at Lamar University by the following policies:

1. All courses, whether passed, failed or repeated, are used in calculating a transfer grade point average. The transfer grade point average is used solely to determine admission status and is not incorporated into the Lamar University grade point average.
NOTE: Transfer work will not be used in determining honors graduation status.
2. "D" grades are transferable, but departments may refuse to count them toward a degree.
3. Transfers from a junior college are limited to 66 semester hours or the number of hours required by the University during the freshman and sophomore years in the chronological order in which the student plans to enroll. No junior college credits will be considered for transfer as upper-level (junior-senior) credits.
4. Acceptance to the University does not constitute acceptance to a particular degree program.
5. Transfer students will be informed of the amount of credit that will transfer no later than the end of the first academic term in which they are enrolled.

Transfer of Military Credit

Credit may be granted for military experience. Credit will be evaluated based upon the evaluation recommendations outlined in the American Council on Education (ACE) Guide to the Evaluation of Educational Experiences in the Armed Services manual. Students must submit one of the following documents: Form DD214 or Form DD256.

Academic Fresh Start

Applicants seeking transfer admission and who have academic credits or grades that were earned ten or more years prior to the semester in which enrollment is sought, may elect to seek entry under the terms of academic fresh start. Under this policy the applicant may petition Lamar University to not consider, in the admission process, course credits or grades earned ten years or prior. Applicants seeking entry under this section will not receive any credit for courses taken ten or more years prior to enrollment. Applicants applying under academic fresh start are subject to all standard admission and testing criteria applicable to persons seeking admission.

Resolution of Transfer Disputes for Lower-division Courses

- A. The following procedures shall be followed in the resolution of credit transfer disputes involving lower-division courses:
 1. If Lamar University does not accept course credit earned by a student at another institution of higher education, the University shall give written notice to the student and to the sending institution that transfer of the course credit is denied. The University shall also provide written notice of the reasons for denying credit for a particular course or set of courses at the request of the sending institution.
 2. A student who receives notice as specified in item (1) of this section may dispute the denial of credit by contacting a designated official at either the sending or the receiving institution.
 3. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with The Texas Higher Education Coordinating Board rules and guidelines.
 4. If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the institution that denies the course credit for transfer shall notify the Commissioner of its denial and the reasons for the denial.
- B. The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.
- C. The Board shall collect data on the types of transfer disputes that are reported and the disposition of each case that is considered by the Commissioner or the Commissioner's designee.
- D. If a receiving institution has cause to believe that a course being presented by a student for transfer from another school is not of an acceptable level of quality, it should first contact the sending institution and attempt to resolve the problem. In the event that the two institutions are unable to come to a satisfactory resolution, the receiving institution may notify the Commissioner of Higher

Education, who may investigate the course. If its quality is found to be unacceptable, the Board may discontinue funding for the course.

Former Students

Former Lamar students who have not been in attendance for one or more regular semesters must file for readmission by submitting the standard application for admission form. Students who left on suspension must receive written clearance from the Dean of that college to be eligible for readmission.

Former students who have attended another college are required to submit a complete record of all work done subsequent to the last date of attendance at Lamar University, and to meet the academic requirements for other transfer students outlined in this bulletin. The regular application for admission must be submitted.

Summer Transients

Students in attendance at another college during the Spring semester who wish to do summer work only at Lamar University may be admitted as transient students. A student applying for admission under this classification is required to submit only the regular application for admission. Academic transcripts are not required unless specifically requested in individual cases. However, transient students must comply with state TSI requirements and must provide TSI scores, evidence of TSI exemption, or proof of Spring semester registration at a private or out-of-state university. Transient students who later apply for regular long-term admission must meet all entrance requirements and supply all necessary admission credentials. International students may not be admitted as transients.

Educational Records and Student Rights

The following information concerning student records maintained by Lamar University is published in compliance with the Family Education Rights and Privacy Act of 1974 as amended (PL93-380).

Access to educational records directly related to a student will be granted to him or her unless the type of record is exempt from the provision of the law.

The types, locations and names of custodians of educational records maintained by the University are available from the registrar.

Access to records by persons other than the student will be limited to those persons and agencies specified in the statute. Records will be maintained of persons granted such access and the legitimate interest in each case.

The release of information to the public without the consent of the student will be limited to the categories of information which have been designated by the University as directory information and which will be routinely released. The student may request this information be withheld from the public by making written request to the Records Office. Directory information includes name, current and permanent address, telephone listing, date and place of birth, major and minor, semester hour load, classification, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, with dates, and the last educational agency or institution attended.

A student has the right to challenge records and information directly related to him or her if it is considered to be inaccurate, misleading or otherwise inappropriate. Issues may be resolved either through an informal hearing with the official immediately

responsible or by requesting a formal hearing. The procedure to be followed in a formal hearing is available in the Records Office.

Prior consent is not required from a student to disclose information to the Comptroller General of the United States, the Attorney General of the United States, the Secretary of State and local educational authorities.

A reasonable attempt will be made by Lamar University to notify a student of a records request to comply with a judicial order or a lawfully issued subpoena.

The right of parental access to student records may be established by either of two methods: first, by the student filing a written consent statement and, second, by the parent validating the student's dependence as defined by the internal Revenue Service.

A student has the right to file a complaint with the U.S. Department of Education concerning alleged failures by Lamar University to comply with the requirements of FERPA.

To Withhold Directory Information

The Family Educational Rights to Privacy Act of 1974, as Amended, allows a college or university to release certain pieces of information if that college or university has published that it will release information. Lamar University will make the following information available to the public: name, current and permanent address, telephone listing, date and place of birth, major, semester hour load, classification, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received with dates and the last educational agency or institution attended.

If a student does not want this information published or given out, the student must sign a Directory Hold form before the 12th class day of each term. If the student signs a directory hold form during the last term before graduation and does not revoke it in writing, the student's records remain sealed, including information sought by future employers confirming a degree. A student should be aware that a directory hold prevents anyone from receiving information about himself or herself.

International Students

International students are entitled to all student services and programs for which they are eligible according to law and University definition. The University reserves the right to establish policies for selected groups of students if the policies are in the student's and the institution's best interest. Applicants will be carefully screened for academic excellence, English proficiency, adequate health and financial self-sufficiency.

Internationals are encouraged and expected to participate in student activities and organizational programs — so as to experience more fully the culture and lifestyles of Southeast Texas. It is the student's responsibility to integrate himself/herself into the campus environment; however, the University provides an atmosphere conducive to acceptance of internationals and affords them every opportunity to succeed.

Since the presence of international students also entails responsibility for the University in meeting certain distinctive needs, it is imperative that adequate provision be made for doing so. The University recognizes this responsibility by setting entrance and exit standards for its non-native English speakers that take into account the minimum language skills necessary for success in academic work as well as the minimum standards that a diploma from the University represents.

In order for the international students to achieve their educational objectives, certain academic services are essential; the University provides facilities and staff commensurate with those needs.

Moreover, the University recognizes that English language proficiency, and not citizenship or immigration status alone, is a key criterion in determining and meeting the needs of students for whom English is a second language.

International Student Admission

Applicants who attended foreign secondary schools, colleges or universities must furnish certified translations of their academic records. These records must show the ability to do above-average work in an academic program. Freshman admission will be based on the completion of 12 years of schooling, a requirement that the student be 18 years of age and eligible for admission to a recognized university in the student's own country. Marks or grades must be well above average. Advanced standing credit will be granted for post-secondary work completed at a recognized college or university if marks are above average. A complete record of secondary school training and university training must be submitted. Complete and official translations must be furnished along with certified true copies of the original records. Records must show all subjects taken and grades or marks earned in each, both from the school and tests given by the Ministry of Education. The grading system should be clearly shown on each record. **UNCERTIFIED PHOTOGRAPHIC COPIES OR OTHER DUPLICATIONS ARE NOT ACCEPTABLE.** Translations must be certified true and correct. Applicants applying as freshmen (first-year students) should submit acceptable scores on the Scholastic Aptitude Test (SAT). Scores of 500 or above on the Test of English as a Foreign Language (TOEFL) are required. SAT scores may be waived for students who have completed a post-secondary academic degree with above average grades.

Most international students whose first language is not English must take the Test of English as a Foreign Language (TOEFL) and score better than 525. Lamar University must receive the official TOEFL scores issued directly from the Educational Testing Service (ETS) before admission can be granted. ETS will not issue official scores that are more than two years old. For information about testing dates and places, write to TOEFL, PO Box 899, Princeton, NJ 08540, USA. The TOEFL is not required of those international students who have received an undergraduate or graduate degree from a university where English is the language of instruction (e.g., universities in the United States, Canada, and England). As part of the orientation process, international students with relatively low but passing TOEFL scores will be required to take one or more additional English as a second language (ESL) proficiency examinations and may be required to participate in ESL coursework as part of their graduation requirements.

International students who are required to take the TOEFL must also submit scores for the Test of Written English (TWE). The TWE is available at the same test centers that administer the TOEFL. The minimum TWE score required by Lamar University is 5. Those scoring less than 5 may be admitted to Lamar University but will be required to enroll in English as a Second Language Courses.

All foreign students who have not completed successfully a minimum of three college hours prior to Fall, 1989, must complete the State-mandated Texas Success Initiative (TSI) Test. Registration forms for testing are available in the Lamar University testing center.

International students who plan to transfer to Lamar University from another college or university in the United States must have completed at least two regular semesters

with at least 30 semester hours of transferable work. An average of "C" (2.0) on all work attempted is required. English proficiency must be demonstrated by submitting scores of 500 or better on the TOEFL. Applicants may be required to submit recommendations from teachers or foreign student advisors. The usual transfer standards apply except that tests may be required if unconditional eligibility is not established. Students should be aware that certain departments may require higher academic proficiency for admission to their program.

International students must present proof of sufficient financial resources to meet the cost of attending Lamar University. International students are required to have health insurance coverage for the duration of their stay in the United States. International students who plan to drive an automobile in the State of Texas must have liability insurance.

Information on the SAT and TOEFL may be obtained by writing to the College Entrance Examination Board, Box 595, Princeton, New Jersey 08540, U.S.A. Scores must be received directly from the testing service. Photocopies or student copies of test scores will not be accepted.

Application forms, test scores, financial statement and complete educational records must be on file by the dates indicated: April 15 for Fall Semester; September 1 for Spring Semester; and January 15 for Summer Sessions.

Special application forms and details on the procedure to follow in making application for admission to Lamar University may be secured by writing to the Office of Admissions.

Applicants accepted by Lamar University are required to attend a special orientation program for international students new to the Lamar campus. Dates for the program will be indicated upon acceptance and noted on form I-20, "date of arrival." **Failure to attend the program will delay registration for one semester.** The program is designed to facilitate a smooth adjustment to the Lamar campus. Students whose native language is not English will be tested for English language proficiency. On the basis of these test scores, appropriate courses in English will be required.

Early Admission Programs

Early admission is possible at Lamar University for the academically superior student. Specific early admission programs link the University and high schools to provide college credit opportunities for high school students. These programs offer qualified high school students the opportunity to enroll in college courses during their junior and senior years. Lamar has four methods of early admission:

- Pre-College Enrollment
- On-Site Instruction
- Lamar Early Access Program (LEAP)
- Texas Academy for Leadership in the Humanities.

Pre-College Honors Enrollment

Pre-College Honors enrollment allows high school students to take university courses while still enrolled in high school. Students may attend on-campus day or evening classes, off-campus classes, interactive video classes and/or telecourses. The credit earned can be applied to degree programs at Lamar or transferred to other colleges and universities. Students may enroll for one or both summer sessions, and may also take courses during the Fall and Spring semesters with approval from the high school. High school students seeking entry through the Pre-College Honors program must have an

SAT score of 1070 or higher with minimum math and English scores of 500 or a composite ACT score of 23 with math and English scores no less than 19.

Student seeking early admission must meet the following two criteria:

1. Admission to Lamar University
 - a. Complete an early entry application for admission form
 - b. Secure required counselor or principal signature on application
 - c. Submit copy of high school transcript
 - d. Submit SAT, PSAT or ACT scores

AND

2. TSI (Texas Success Initiative) Compliance

Students must meet one of the following:

- a. Be exempt from THEA. Test scores that exempt a student from THEA are
 - SAT Composite Score—1070 (with minimum 500 Verbal and 500 Math)
 - ACT Composite Score—23 (with minimum 19 Verbal and 19 Math)
 - TAKS 1770 Writing, 86 Math, 89 Reading

OR

- b. Prior to being enrolled, achieve THEA scores listed below:

Course Number	Course Title	Official TASP Score Required
Communication 1315	Public Speaking I	230 Reading and 220/5 Writing
Economics 2302	Principles of Economics II	230 Reading and 240 Math
English 1301	Composition I	230 Reading and 220/5 Writing
English 1302	Composition II	230 Reading and 220/5 Writing
English 2322	British Literature	230 Reading and 220/5 Writing
English 2326	American Literature	230 Reading and 220/5 Writing
English 2331	World Literature	230 Reading and 220/5 Writing
History 1301	US History I	230 Reading
History 1302	US History II	230 Reading
Math 1314	College Algebra	260 Math
Math 2413	Calculus I	260 Math
Political Science 2301	American Government I	230 Reading

The selection of courses is determined on the basis of the student's high school background, the recommendation of the high school counselor, and assessment of the Lamar University academic advisor. These classes generate college credit. Any use of these credits toward high school graduation is at the discretion of the high school and must be approved by the high school prior to enrollment at Lamar.

On-Site Instruction

Lamar University offers dual credit courses through Distance Learning. Interactive videoconferencing allows accelerated high school students to earn both high school and college credit while attending daytime classes on their high school campus. Instruction is simultaneously linked with a University faculty member and classroom on the University campus. Based on the high school's need and student interest, Lamar University can also provide a faculty member for on-site instruction. To inquire or make arrangements for either of these instructional methods, please contact the Center for Adult Studies, Division of Continuing Education at (409) 880-8431. Student's entrance requirements are the same as for the Lamar Early Access Program.

Lamar Early Access Program (LEAP)

The Lamar University Early Access Program is a cooperative venture between Lamar and participating high schools allowing high school juniors and seniors to take university courses taught by their high school teachers in their own schools. The high school teacher must hold a master's degree in the teaching discipline or a master's degree with 18 graduate hours in the teaching discipline. To establish LEAP, the high school principal should contact the Division of Continuing Education. Students applying for LEAP classes must meet the minimum admission requirements specified in criteria 1 and 2 listed under the Pre-College Honors section above.

Texas Academy of Leadership in the Humanities (TALH)

The Texas Academy of Leadership in the Humanities (TALH) is a dual-credit, full-time, residential honors program created by the Texas Legislature that allows academically qualified high school juniors and seniors in the state to earn university credits as they fulfill their high school graduation requirements. Students live on campus and enroll in a full-time university curriculum. Graduates of TALH are awarded a high school diploma from the Academy. The typical TALH graduate will earn 60 hours of college credit after two years of study. Required for admission are academic transcripts from the 8th grade to date, a minimum 1000 SAT composite score (with at least a 500 on the verbal portion), an autobiographical essay and at least two recommendations from teachers/administrators familiar with the student's abilities and character. The successful candidate will have a superior academic record and SAT score and supporting application materials evidencing the personal integrity, sense of responsibility and level of maturity requisite for success in the program. Tuition and fees are fully subsidized for students accepted into the Academy. Qualified TALH students may also apply for state and federal student financial assistance. TALH has a "rolling admissions" policy, though students are strongly urged to submit their application for the fall semester by March 31 of the preceding term. Additional information is available by contacting the program director, (409) 880-2993, or admissions and humanities coordinator, (409) 839-2995.

Texas Success Initiative (TSI) Test

The Texas Success Initiative (TSI) is mandated by Texas law to ensure that students enrolled in Texas public colleges possess the academic skills needed to perform effectively in college-level coursework. TSI includes a testing component designed to identify and provide diagnostic information about the reading, mathematics and writing skills of each student.

All students subject to the TSI requirement must take the THEA test. This test must be taken and scores received before advising and registration.

A student is exempt from the THEA test only if he or she

1. has an ACT composite score of 23 or higher with individual math and English scores of no less than 19. Scores can be not more than five years old and must be taken at one sitting.
2. has an SAT composite score of 1070 or higher with individual math and English scores of no less than 500 (re-centered scale for tests taken April 1995 and thereafter); or for tests taken prior to April 1995, a combined verbal and math score of 970 with a minimum of 420 on the verbal test and 470 on the mathematics test. Scores can be not more than five years old and must be taken at one sitting.
3. has a TAAS (Texas Assessment of Academic Skills) minimum scale score of 1770 on the reading, mathematics and writing tests, or, for tests taken spring

1994 and thereafter, a Texas Learning Index (TLI) of 86 on the mathematics test and 89 on the reading test. Scores can be not more than three years old and students must obtain scores high enough to warrant an exemption on their first attempt of the TAAS, not on repeated attempts.

4. has an associate or baccalaureate degree.
5. transfers from a private or independent institution of higher education or an accredited out of state institution of higher education with completed coursework of at least 6 equivalent credit hours (3 algebra, 3 designated reading/writing courses) with a grade of "C" or better.
6. transfers from any public Texas institution of higher learning with completed requirements for Success Initiative.
7. is NOT seeking a degree or Level Two certificate.
8. is currently serving on active duty as a member of the armed forces of the United States, including the Texas National Guard.
9. is currently serving and for at least a three year period preceding enrollment has served in a reserve component of the armed forces.
10. has been, on or after August 1, 1990, honorably discharged, retired or released from active duty as a member of the armed forces of the United States or the Texas National Guard or a member of a reserve.

If, after taking the THEA test, skill deficiencies in reading, mathematics or writing are present, the student is required, by state law, to participate in a developmental program in the area of deficiency.

Students who fail to take the THEA test will not be permitted to enroll in any other Texas public higher education institution in any courses other than noncredit or pre-collegiate courses until they have taken the THEA test. Pre-collegiate courses, such as remedial reading, writing and mathematics, are not counted in calculating the credit hours for meeting the testing requirements.

For information on who must take the THEA examination, the best time to take the THEA examination and to obtain a copy of the THEA Registration Bulletin and the official THEA Study Guide, contact the Office of Developmental Studies, 110 ROTC Building.

For further information on Texas Success Initiative requirements and the developmental programs, see pages 56 and 57 of this catalog or contact the office of Developmental Studies, (409) 880-8954.

Financial Aid and Awards

Financial assistance in the form of scholarships, grants, loans and employment is available to qualified students. Information regarding programs, policies, rules, regulations, consumer information and eligibility criteria can be obtained from the Student Financial Aid Office, P.O. Box 10042, Beaumont, Texas 77710 or from the Office of Recruitment and Scholarships, P.O. Box 10009, Beaumont, Texas 77710.

When to Apply

Applications for need-based financial assistance should be completed by April 1 for the following academic year. Notification of awards will be mailed in late spring and early summer. The University will continue to award student aid as long as funds are available. The most desirable types of aid, however, are normally expended early. Therefore, students should make every effort to meet the April 1 deadline.

How to Apply

Scholarships

Students wishing to be considered for scholarships only should request and complete the Lamar University Academic Scholarship Application. Academic transcripts must be submitted with the application. Beginning freshman applicants should arrange to have SAT or ACT test scores on file with the Lamar University Admissions Office. Scholarship funds are limited and recipients normally must have a grade point average in excess of 3.50 to be considered. Students are encouraged to contact their major department in order to secure application information for scholarships, which may be offered directly through the department.

Applications for scholarships should be completed by February 1 for the following year. Completed applications should be forwarded to the Scholarship Office, P.O. Box 10009, Beaumont, Texas 77710 or to Room 203 Wimberly Building.

Grants, Loans, College-Work Study

All students applying for need-based aid must complete the Free Application for Federal Student Aid (FAFSA). Need-based assistance includes numerous federal and state grants, loans and employment programs. Students are strongly encouraged to use the Web for electronic submission of the FAFSA, available at www.fafsa.ed.gov. The FAFSA is also available from high school counselor offices or directly from the Office of Student Financial Aid. Students must apply to Lamar University before financial aid is offered. After the FAFSA and required admission documents have been submitted, students will be mailed a request for supplemental information. The awarding of funds considers the student's financial need as well as the student's demonstration of satisfactory academic progress. Students are notified in writing of the amount and types of assistance awarded and have the opportunity to accept or reject any assistance offered. Students must apply annually for continued financial assistance.

Minimum Qualifications

Scholarship awards to entering freshmen are determined by applicants' high school academic record, scores on the Scholastic Aptitude Test (SAT) or American College Testing Program (ACT), leadership and high school class rank. Scholarship awards for upper-class students are determined by their cumulative grade point average as well as displayed leadership abilities.

Those applying for need-based grants, loans or work-study employment must have their eligibility established by the FAFSA. In order to be eligible for federal educational assistance, the student must:

- a. Be a U.S. citizen or permanent resident of the United States;
- b. Possess a high school diploma from an accredited high school;
Note: Students who graduate from home schools or unaccredited high schools must submit passing ACT or GED scores.
- c. Be admitted to Lamar University; and
- d. In the case of continuing students, meet reasonable academic progress standards.

Satisfactory Academic Progress—Students receiving aid must maintain a 2.00 cumulative Grade Point Average. Students must also complete 75% of the hours they attempt and earn their first degree within 180 earned hours. Students who feel that extenuating circumstances prevented them from achieving the academic progress standard may address a written appeal to the Director of Financial Aid.

Grants

The Pell Grant is the foundation source for all other need-based aid programs. No other need-based assistance (grants, loans, work-study) can be awarded until the student's eligibility for the Pell Grant is determined. The Texas Grant is available to first-time entering students who have graduated from a Texas public high school with a recommended (or higher) curriculum and have established financial need by submitting the FAFSA. The filing of the FAFSA should cause the Student Aid Report to be sent to the student's address and an electronic record will be sent to the school(s) listed on the FAFSA.

Scholarships

Policy Regarding Competitive Scholarships

Competitive scholarships are awarded under the authority of the Lamar University Scholarship Committee, or other University committees specifically authorized by the Lamar University administration to commit scholarship funds. Students applying for academic scholarships administered through the university should complete the Lamar University Scholarship Application. Students seeking scholarships on the basis of specialized skills should contact faculty or staff in the specific area of interest.

Selection Factors

Scholarships offered through the Lamar University Scholarship Committee are awarded on a competitive basis. The application process is open to all potential and current students. Scholarships may be awarded to graduating high school seniors, transfer students, or currently enrolled Lamar University Students. Factors indicating academic achievement used in determining recipients of competitive scholarships include: 1) class ranking and/or grade point averages; 2) standardized test scores such as SAT, ACT, or GRE; 3) previous high school and/or college academic transcripts; 4) academic awards, honors, or achievements; and 5) academic major. Displayed leadership abilities and participation in extra curricular activities are used as secondary factors.

Competitive scholarships are also awarded on the evidence of specific skills. Specialized skill-based scholarships are competitively awarded to applicants having demonstrated abilities and prior successful participation in such areas as music, writing, art, dance, or athletics. Factors in the awarding of competitive skill-based scholarships include evaluation by faculty and/or staff in each specific area. Evaluations may include but are not limited to video, film, audio-tape, auditions, student submitted works, or personal observations.

McMaster Honors Program scholarships of up to \$10,000 each are available. Students may contact the director of the program (see page 69) for details.

Waiver of Non-Resident Fees

Students receiving competitive academic scholarships of \$1,000 or more may be exempt from the payment of nonresident tuition rates. To be eligible for this waiver the scholarship must meet all institutional requirements of competitive awards and comply with all rules governing tuition rates and waivers as established by the State of Texas.

Loans

Lamar University provides both short-term and long-term loans. Short-term loans for 30 to 60 days are designed to cover emergency situations and must be repaid within the semester in which the loan is made. Long-term loans with repayment after graduation may be obtained under such programs as the Stafford Student Loan Program (formerly GSL), the Perkins Loan Program, the Hinson-Hazelwood College Student Loan Act, and Parent Loans for Undergraduate Students (PLUS). Those interested in one of these loan programs should contact the Student Financial Aid Office for information and application forms.

Employment

Employment opportunities under the Federal College Work-Study Program and other employment programs of the University are available to Lamar students as part of the financial assistance program. The University, local businesses and industries provide a number of part-time jobs that enable students to earn part or all of their expenses while attending the University.

Valedictorians

Valedictorians from accredited high schools of Texas are entitled to an exemption from payment of tuition and laboratory fees for the two regular semesters immediately following graduation. Other fees are not exempt. Upon registration, valedictorians should submit the "Highest Ranking Graduate Certificate" to the Student Financial Aid Office so that the appropriate fee adjustment can be made.

Students with Physical Handicaps (Vocational Rehabilitation)

The Texas Rehabilitation Commission offers assistance for tuition and non-refundable fees to students who have certain disabling conditions, provided their vocational objectives have been approved by a TRC counselor. Examples of such conditions are orthopedic deformities, emotional disorders, diabetes, epilepsy, heart conditions, etc. Other services also are available to assist the handicapped student to become employable. Application for such service should be made at the Texas Rehabilitation Commission, Beaumont District Office, 5550 Eastex Freeway, Beaumont, Texas 77701 (409/898-3988).

Multiple Campus Enrollment

Students enrolling simultaneously at Lamar State College-Orange and/or Lamar State College-Port Arthur must choose to receive their financial aid from only one campus and declare this institution as their degree-granting institution. The appropriate form (Consortium Agreement) is available from the campus granting the financial aid and must be filed each year the student is enrolled on multiple campuses.

Release of Records

All records (applications and need analysis documents) submitted by a third party become the property of Lamar University and cannot be released to another institution or the student. Prior to processing, items submitted by the student may be returned upon the student's written request. Parental income tax information may be returned upon written request of the parent. A minimum of five days may be required to complete the return of the requested items. Once the application has been processed, all items must be maintained for audit purposes and cannot be released.

Financial Aid Transcripts

Financial Aid Transcripts are available by contacting the Office of Student Financial Aid, P.O. Box 10042, Lamar University Station, Beaumont Texas, 77710.

Tuition Rebates for Certain Undergraduates

Certain students entering higher education for the first time in fall 1997 or later may be eligible for a \$1,000 tuition rebate. Specific details of this program are available in the Offices of Academic Services or the Registrar. To be eligible to apply for this rebate, students must meet all of the following conditions:

1. Enroll in higher education for the first time in the fall of 1997 or later.
2. Work toward a first baccalaureate degree.
3. Attempt all courses at a Texas state institution and have been entitled to pay resident tuition rates at all times of enrollment.
4. Attempt no more than three hours in excess of the minimum number of semester credit hours to complete the degree under the Lamar University General Catalog from which they graduated. Hours attempted include transfer credits, course credit earned by examination, courses dropped after the official census date, for-credit developmental courses, optional internship and cooperative education courses, and repeated courses.
5. Apply to the Office of the Registrar during the semester in which the student applies for graduation.

Refunds

For those students withdrawing from the University and who are receiving or have received financial assistance (grants, loans, scholarships), all or a portion of the refund will be returned to the appropriate financial aid source. Recipients in attendance at Lamar University for the first time and who withdraw prior to the 60% point in the semester will have refunds calculated according to the Pro-Rata Refund Schedule listed below. All other applicable refunds will be calculated according to the Refund Policy as outlined in the Fees and Expenses section of this catalog.

Pro-Rata Refund Schedule

Fall or Spring Semester

1. Prior to first class day, 100%
2. During the first week, 90%
3. During the second week, 80%
4. During the third week, 80%
5. During the fourth week, 70%
6. During the fifth week, 60%
7. During the sixth week, 60%
8. During the seventh week, 50%
9. During the eighth week, 40%
10. During the ninth week, 40%
11. After the ninth week, 0%

Summer Session

1. Prior to first class day, 100%
2. During the first week, 80%
3. During the second week, 60%
4. During the third week, 40%
5. After the third week, 0%

In allocating the refund to specific programs, Lamar University will practice a "Fixed Priority Allocation." The listing below indicates the priority in which programs will be refunded. The full amount received under each program is returned in priority order until the refund amount is exhausted. The amount returned to a specific program cannot exceed the amount the student received from that program. Refunds due to lenders of Stafford Loans and PLUS will be refunded directly to the lender. The Director of Student Financial Aid may exercise professional judgment in exceptions to the distribution hierarchy policy.

Refund Priority

Federal Pell Grant

Federal SEOG

Federal Perkins Loan

Subsidized Federal Stafford Loan

Unsubsidized Federal Stafford Loan

Federal PLUS Loan

SSIG

Other Federal SFA Programs

Sponsored Students Source

TPEG

STS

SDS

Departmental Budgeted Funds

Restricted Scholarship Funds

Student

Policy Regarding Referrals of Suspected Fraud or Criminal Misconduct

In the event that an applicant is suspected of participating in fraud or other criminal misconduct in connection with the application for Title IV, HEA program assistance, the information will be referred to the appropriate university, state, and/or federal authorities. These authorities may include, but are not limited to, the following: University Discipline Officer, University Policy, Beaumont Police and the Office of the Inspector General of the U.S. Department of Education.

Fees and Expenses

Lamar University reserves the right to change fees in keeping with acts of the Texas Legislature and the University's Board of Regents. By registering for classes at the University, the student agrees to abide by all the policies of the University.

Payment of Fees

A student is not registered until all fees have been paid in full or the student has paid the equivalent of a down payment on the installment plan (if available). Payment may be made by check, Mastercard/Visa/Discover/AMEX, money order, currency or any kind of financial aid (exemptions, loans, grants and scholarships). Checks and money orders should be made payable to Lamar University and will be accepted subject to final payment. The University will not accept counter checks, postdated checks, credit card checks or altered checks. Excess payments will be refunded either in cash or check at the discretion of the University. Students on a "cash only" basis will be restricted to paying by MasterCard/Visa/Discover/AMEX, money orders, currency or financial aid. Payments can be made:

- (1) All forms of payment at the Cashier's office during working hours.
- (2) Credit card payments can be made by phone by calling 839-2000.
- (3) Payments may be made on the Internet at WWW.LAMAR.EDU.
- (4) Drop box at Wimberly 114 for check (with social security number and campus) in a sealed envelope. These payments will be considered part of the next business day's activity if paid after 5:00 p. m. No cash will be accepted.
- (5) Mailed to the Payment Center at P.O. Box 54441, New Orleans, LA 70154-4441.

Students who are delinquent on obligations will be prohibited from registering for class until all obligations are paid in full. Also, holds are placed on academic records so that students cannot obtain transcripts until all obligations are paid in full.

Delinquent obligations to the University will be sent to a collection agency (1-800-933-9272) and reported to credit bureaus. All costs of collections are paid by the student which is generally an additional 33.333% of the student's obligations to the University. Delinquent accounts must be paid at the collection agency. Payment cannot be accepted by Lamar if the account has been forwarded to a collection agency.

Installment Payment Program

Students may enter into the installment program of the University upon verbal or written request in a Fall or Spring semester. Students who do not pay in full the tuition and fees will be placed in the installment program if the student has paid at least the amount of the down payment (otherwise classes will be dropped). The installment program generally requires a 50% downpayment with the next 25% due about a month after the semester starts and the final 25% due about two months after the semester starts. A non-refundable service charge of \$20 is assessed for the installment program. A late fee of \$15 will be assessed beginning the first day after an installment due date for each delinquent installment payment. Reductions of fees for students in the installment program from drops or withdrawals are calculated as a percentage of the total fees assessed, not as a percentage of any partial payments.

Summary of Registration Expenses

Each student must plan a budget carefully. To assist in planning registration expenses, the following estimate is furnished as a guide. (For information on University housing fees, see p. 73 of this catalog.)

Texas residents enrolled in a 15-hour academic work load*:

Tuition (in-state).....	\$1,440
Student Services Fee	150
Setzer Student Center Fee	30
Property Deposit	10
Student ID	5
Technology Service Fee	165
Library Use Fee	40
Health Center Fee	30
Study Abroad Fee	2
Parking Fee (if desired)	32
Books (estimated)	427
	<u>\$2,331</u>
	+ course fees

Part-time Student (Six semester hours):

Tuition (in-state)	\$576
Student Services Fee	99
Setzer Student Center Fee	30
Property Deposit	10
Student ID	5
Technology Service Fee	66
Library Use Fee	24
Health Center Fee	30
Study Abroad Fee	2
Parking Fee (if desired)	32
Books (estimated)	213
	<u>\$1,087</u>
	+ course fees

Tuition and fees vary from semester to semester and vary with the semester hours carried so the total may differ from this estimate.

Summaries of Fees

Following are "Summaries of Fees" in effect at press time which can be used in determining total tuition and fee charges. The total amount of these fees are typical of other state universities in Texas though specific fees will vary from university to university. Note that these do not include course fees and it is assumed the student is enrolled only at Lamar University.

Lamar University Summer 2004

No. Sem.	Tuition		Stu. Serv. Fee	Stu. Center Fee	Health Center Fee	Technology Service Fee	Library Use Fee	Study Abroad Fee	Property Deposit	Total	
	Texas Resident	Non-Texas Resident								Texas Resident	Non-Texas Resident
1	\$110	\$326	\$15	\$15	\$15	\$11	\$4	\$1	\$10	\$181	\$397
2	180	652	30	15	15	22	8	1	10	281	753
3	270	978	45	15	15	33	12	1	10	401	1,109
4	360	1,304	60	15	15	44	16	1	10	521	1,465
5	450	1,630	75	15	15	55	20	1	10	641	1,821
6	540	1,956	75	15	15	66	24	1	10	746	2,162
7	630	2,282	75	15	15	77	28	1	10	851	2,503
8	720	2,608	75	15	15	88	32	1	10	956	2,844
9	810	2,934	75	15	15	99	36	1	10	1,061	3,185
10	900	3,260	75	15	15	110	40	1	10	1,166	3,526

Parking: \$12; ID: \$5; Property Deposit is a one-time fee; Other course and material fees may apply.
Note: Fees are subject to change without notice by action of the Board of Regents or the Texas State Legislature.

Lamar University Fall 2004/Spring 2005

No. Sem.	Tuition		Stu. Serv. Fee	Stu. Center Fee	Health Center Fee	Technology Service Fee	Library Use Fee	Study Abroad Fee	Property Deposit	Total	
	Texas Resident	Non-Texas Resident								Texas Resident	Non-Texas Resident
1	\$192	\$330	\$16.50	\$30	\$30	\$11	\$4	\$2	\$10	\$295.50	\$433.50
2	240	660	33.00	30	30	22	8	2	10	375.00	795.00
3	288	990	49.50	30	30	33	12	2	10	454.50	1,156.50
4	384	1,320	66.00	30	30	44	16	2	10	582.00	1,518.00
5	480	1,650	82.50	30	30	55	20	2	10	709.50	1,879.50
6	576	1,980	99.00	30	30	66	24	2	10	837.00	2,241.00
7	672	2,310	115.50	30	30	77	28	2	10	964.50	2,602.50
8	768	2,640	132.00	30	30	88	32	2	10	1,092.00	2,964.00
9	864	2,970	148.50	30	30	99	36	2	10	1,219.50	3,325.50
10	960	3,300	150.00	30	30	110	40	2	10	1,332.00	3,672.00
11	1,056	3,630	150.00	30	30	121	40	2	10	1,439.00	4,013.00
12	1,152	3,960	150.00	30	30	132	40	2	10	1,546.00	4,354.00
13	1,248	4,290	150.00	30	30	143	40	2	10	1,653.00	4,695.00
14	1,344	4,620	150.00	30	30	154	40	2	10	1,760.00	5,036.00
15	1,440	4,950	150.00	30	30	165	40	2	10	1,867.00	5,377.00
16	1,536	5,280	150.00	30	30	176	40	2	10	1,974.00	5,718.00
17	1,632	5,610	150.00	30	30	187	40	2	10	2,081.00	6,059.00
18	1,728	5,940	150.00	30	30	198	40	2	10	2,188.00	6,400.00
19	1,824	6,270	150.00	30	30	209	40	2	10	2,295.00	6,741.00
20	1,920	6,600	150.00	30	30	220	40	2	10	2,402.00	7,082.00

Parking: \$32; ID: \$5; Property Deposit is a one-time fee; Other course and material fees may apply.
Note: Fees subject to change without notice by action of the Board of Regents or the Texas State Legislature.

Lamar University Summer 2005

No. Sem. Hours	Tuition		Stu. Serv. Fee	Stu. Center Fee	Health Center Fee	Technology Service Fee	Library Use Fee	Study Abroad Fee	Property Deposit	Total	
	Texas Resident	Non-Texas Resident								Texas Resident	Non-Texas Resident
1	\$120	\$330	\$15	\$15	\$15	\$11	\$4	\$1	\$10	\$191	\$401
2	192	660	30	15	15	22	8	1	10	293	761
3	288	990	45	15	15	33	12	1	10	419	1,121
4	384	1,320	60	15	15	44	16	1	10	545	1,481
5	480	1,650	75	15	15	55	20	1	10	671	1,841
6	576	1,980	75	15	15	66	24	1	10	782	2,186
7	672	2,310	75	15	15	77	28	1	10	893	2,531
8	768	2,640	75	15	15	88	32	1	10	1,004	2,876
9	864	2,970	75	15	15	99	36	1	10	1,115	3,221
10	960	3,300	75	15	15	110	40	1	10	1,226	3,566

Parking: \$12; ID: \$5; Property Deposit is a one-time fee; Other course and material fees may apply.
Note: Fees subject to change without notice by action of the Board of Regents or the Texas State Legislature.

Tuition

Tuition has two components to it: the portion set by the State (conventional tuition) and the portion set by the Board of Regents regulated by State statutes (local tuition). By State statute, both of these items must be billed together and called "tuition." The State portion (conventional tuition) is based upon the number of hours for which the student registers and is determined by the student's classification as a Texas resident or a non-Texas resident. The Admissions Office determines legal residence for tuition purposes on the basis of statutes of the State of Texas. State tuition is remitted to the State by the University. The current state tuition rate is \$46 per hour with a minimum \$138 (\$66 for Summer sessions), moving to \$48 per hour in Fall 2004 and increasing by \$2 per hour every Fall thereafter. The local tuition portion is assessed to support University debt service and other University functions that are not supported by state funding. Approximately 70% of this fee is used to finance debt service. Other items supported by this fee include the post office, print shop, supply center, cashiering, and other institutional support functions. The current rate is \$44 per hour, moving to \$48 per hour in Fall 2004 and increasing by \$4 per hour every Fall thereafter. Combined, the current rate is \$90 per hour with a minimum of \$182 (\$110 for Summer sessions), moving to \$96 per hour in Fall 2004 and increasing by \$6 per hour every Fall thereafter.

Tuition for Undergraduate Students with Excessive Credit Hours

In accordance with Senate Bill 345 (1999), Section 61.0595* of the Education Code was amended to address tuition for excessive credit hours of undergraduate students. Lamar University will not receive state funding for credit hours earned by a resident undergraduate student beyond the number required by the degree program plus 45 hours. If a resident undergraduate student earns credit hours that exceed by at least 45 hours the number of credit hours required by a degree program, Lamar will not receive state funding for those hours. Lamar will, therefore, charge the student the rate charged non-resident students. (e.g., a degree program requires 120 semester credit hours, but a resident undergraduate student enrolls in 166 credit hours. The student is charged resident rate for 120 plus 45 hours, totaling 165, but the student is charged the non-resident rate for any hours exceeding 165.)

An undergraduate student who is not enrolled in a degree program is considered to be enrolled in a degree program requiring a minimum of 120 semester credit hours. This law does not apply to a student enrolled in: 1) two or more baccalaureate degree programs at the same time, 2) a double major degree program that requires 130 or more semester credits for completion, or 3) a health professional baccalaureate degree program.

The following credits are not counted for purposes of determining whether the student has previously earned the number of semester credit hours specified above: 1) semester credit hours earned by the student before receiving a baccalaureate degree that has been previously awarded to the student, 2) semester credit hours earned by the student by examination or under any other procedure by which credit is earned without registering for a course for which tuition is charged, 3) credit for a remedial education course, a technical course, a work-force education course funded according to contact hours, or another course that does not count toward a degree program at the institution, or 4) semester credit hours earned by the student at a private institution or an out-of-state institution.

These provisions do not affect any students who initially enrolled as an undergraduate student in any institution of higher education before the fall 1999 semester. For additional information, contact the Office of the Vice President for Finance and Operations.

** In accordance with Senate Bill 345 (1999), Section 61.0595 of the Education Code was amended to address tuition for excessive credit hours of undergraduate students. Lamar University will not receive state funding for credit hours earned by a resident undergraduate student who, before the semester or other academic session begins, has previously attempted a number of semester credit hours for courses taken at any institution of higher education while classified as a resident student for tuition purposes that exceeds by at least 45 hours the number of semester credit hours required for completion of the degree program in which the student is enrolled.*

Student Service Fee

The student service fee supports student activities such as athletics, recreational sports, the University Press and other student services. The current rate is \$16.50 per hour with a maximum of \$150.

Setzer Student Center Fee

This fee supports the Setzer Student Center and its programs. The current rate is \$30 per long semester and \$15 per summer session.

Course Fees

Most courses have additional fees associated with them. Students should always check with the departments offering the class to see what additional fees will be assessed. Most course fees are also listed in the class schedule.

Technology Service Fee

This fee primarily supports both the administrative mainframe computer and the academic mainframe computer. The current rate is \$5 per hour with a maximum of \$50.

Health Center Fee

The Health Center Fee supports the student Health Center and is \$30 per long semester and \$15 per summer session.

Library Use Fee

This fee is used to support the library. As every course (including field center courses) is given the mandate to use the library, all students are charged this fee. The current rate is \$4 per hour with a maximum of \$40.

Distance Learning Fee

A charge up to \$50.00 per semester credit hour of instruction will be charged to students enrolled in courses offered by means of distance learning.

Late Registration Fee

A charge of \$10 is made for late registration or for paying after the start of the semester (not including the second or third payments under the installment plan).

Reinstatement Fee

A student seeking reinstatement to the university after withdrawing from the university without paying the full amount of tuition and fees due, or after having been denied credit for work done for failure to pay an installment payment or late payment fee, shall pay a \$50.00 reinstatement fee in addition to past due installment payments and late payment fees.

Parking Fee

Charges for parking on campus are made at registration. Automobile registration fees are as follows: Fall semester, \$32; Spring semester, \$22; Summer, \$12. Only one registration is required during an academic year, and a student's parking fee is honored until the end of Summer Session II.

Property Deposit

Each student will be required to pay a one-time \$10 property deposit. Any unused portion of the \$10 will be refunded upon written request to the Cashiers' Office after the student graduates or withdraws from the University. If a student attends the university for more than four years, this fee will be charged again.

Health and Accident Insurance

Health and accident insurance coverage is available for purchase at registration for students carrying nine or more semester hours. This or similar insurance is required of all international students. Additional information may be obtained from the Student Affairs Office.

Special Fees

Fees will be set by the University for courses in which special plans and/or field trips must be prepared and specialists secured as instructors. Students who feel they may be exempt from some fees should contact the Student Aid Office. For example:

Exemption 1: Scholarships to High School Honor Graduates

The highest ranking student in the graduating class of a fully accredited Texas high school will be entitled to a tuition and laboratory fee waiver valued at approximately \$200. Details may be obtained from the Student Aid Office.

Exemption 2: Hazlewood

Persons who were citizens of Texas at the time of entry into the Armed Forces and who are no longer eligible for federal educational benefits, are exempt from tuition, laboratory fees, Setzer Student Center fees, general use fee and computer use fee. This applies to those who served in World War I, World War II, the Korean Conflict, the Vietnam War or Desert Storm and were honorably discharged. This exemption also applies to those veterans who entered service after Jan. 1, 1977, and did not contribute under the VEAP program. To obtain this exemption, necessary papers must be presented prior to registration and approval obtained from the Office of Veterans' Affairs. The above exemption also extends to children of members of the Armed Forces who were killed in action or died while in the service in World War II, the Korean Conflict or Vietnam War.

Students who have been out of the service more than 10 years need to provide a copy of their separation papers (DD214). Students separated for a period of less than ten years must also provide a letter from the Veterans Administration stating that the student has no remaining eligibility.

Students who expect to attend under some veterans' benefit plan should contact the Office of Veterans' Affairs 90 to 120 days prior to registration. The Office of Veterans' Affairs advises veterans on program and training opportunities, academic assistance and counseling. Veterans interested in information in these areas should visit this office in the Wimberly Student Services Building.

Policy on Waiving Fees**Off-Campus Classes**

Students taking field center classes will not be required to pay Setzer Center, Health Center or Property Deposit fees. All other fees are required by either Board of Regents or State statute and cannot be waived. Field center courses have an additional \$10 per hour fee to compensate for the additional expenses of these classes (rent of facilities, transportation of personnel and materials, additional record keeping, etc.).

Multi-Campus Students

Students taking classes on more than one Lamar campus (Lamar-Beaumont, Lamar-Orange, Lamar-Port Arthur, Lamar-Institute of Technology) may be entitled to a reduction of fees. The basis for the reduction would be so as not to exceed fee maximums for specific fees. The Cashiers' Office should be contacted for information regarding multi-campus adjustments or to ensure an adjustment is made.

Refund of Tuition and/or Fees

Students requesting a refund of tuition and/or fees resulting from dropped courses or from withdrawing from the University should direct questions to the Cashiers' Office. Refunds are calculated as a percentage of total fees assessed, not as a percentage of partial payments on installments. Refunds for dropped classes are generally processed at the end of the second week past the 12th semester day of regular semesters and after the 4th semester day during summer sessions. Refunds for withdrawals are generally processed at the end of the second week following the 12th semester day for regular semesters and two weeks after the 6th semester day for summer sessions.

Dropped Courses

In order to receive a 100% reduction of tuition and fees for dropped courses, a student must drop according to the schedule below, and remain enrolled in some hours with the University. Questions should be directed to the Cashier's Office.

Fall or Spring Semester

1. Through the twelfth semester day, 100 percent.
2. After the twelfth semester day, no refund.

Summer Session

1. Through the fourth semester day, 100 percent.
2. After the fourth semester day, no refund.

Withdrawal from the University

Tuition and fees may be reduced when a student withdraws. Depending on the amount of reduction and what the student has paid, the student may receive a refund or may still owe money to the University. Any student who officially withdraws from the University will receive a reduction on tuition and fees according to the following schedule.

Fall or Spring Semester

1. Prior to the first semester day, 100 percent less a \$15 matriculation fee.
2. During the first through fifth semester days, 80 percent.
3. During the sixth through tenth semester days, 70 percent.
4. During the eleventh through fifteenth semester days, 50 percent.
5. During the sixteenth through twentieth semester days, 25 percent.
6. After the twentieth semester day, none.

Summer Session

1. Prior to the first semester day, 100 percent less a \$15 matriculation fee.
2. During the first, second or third semester day, 80 percent.
3. During the fourth, fifth or sixth semester day, 50 percent.
4. Seventh semester day and after, none.

The \$10 Property Deposit is refundable upon written request by the student to the Cashiers' Office.

Withdrawing from the University does not relieve the student of any financial obligations under the Installment Payment Program or for any student loans as these are the student's legal financial commitments.

Insufficient Funds Checks

Checks written to the University and returned unpaid for any reason will result in a \$25 charge plus applicable fees for a delinquent account (e. g. \$10 late registration fee, \$15 late installment payment fee, etc.). Students with a returned check will be on "cash only" status for the duration of their enrollment at Lamar, subject to appeal. Students on a "cash only" basis are prohibited from paying with a personal check (all other payment methods are acceptable).

Matriculation Fee

A matriculation fee of \$15 will be incurred by students who withdraw prior to the first day of class. This \$15 fee will be deducted from refunds.

Miscellaneous Fees

Transcript Fee	\$5.00
Advanced Standing Examination (per course)	25.00
Photo Identification	5.00
Lost Photo I.D.	5.00
Parking Tickets	10-70.00
Special Handling Fee	20.00

Other departments have programs or services available to students. Questions regarding these services or programs should be directed to the corresponding departments.

Fine and Breakage Loss

Library fines, charges for breakage or loss of equipment or other charges must be paid before a transcript of credit or a permit to re-enter the University will be issued. The University reserves the right to make a special assessment against any student guilty of inexcusable breakage, loss of instructional equipment or other University property.

Determining Residence Status

Texas law specifies that if there is any question as to the student's right to classification as a resident of Texas, it is the student's responsibility to (1) have his or her classification officially determined and (2) to register under the proper classification. Students are classified as resident, nonresident, or foreign for tuition purposes according to state statutes (Title 3, Texas Education Code) and Texas Higher Education Coordinating Board rules and regulations interpreting these statutes. These statutes, rules and regulations are available from the Office of Admissions Services in the Wimberly Student Services Building. Questions should be directed to that office.

Academic Policies and Procedures

Course Numbering

Lamar University converted to the Texas Common Course Number (TCCN) prefixes and numbers in the fall semester of 1998. A crosswalk from previous numbers to the TCCN number is Appendix A. The TCCN is primarily for freshman and sophomore courses; however, the prefixes have been extended through all levels.

Each course has an alphanumeric code (e.g., ENGL 1301). The alpha portion is an abbreviation of the subject area, while the numeric portion provides specific information about the course. The first digit of the numeric portion indicates the level of the course (1=freshman level, 2=sophomore level, 3=junior level, 4=senior level, and 5 and 6=graduate level). The second digit indicates the number of semester credit hours earned by satisfactorily completing the course. The third digit is a sequencing number, or if it is a 7, the third digit indicates the course is not in the TCCN. The fourth digit is a sequencing number.

In this bulletin, three digits separated by colons, such as (3:3:1), will follow each course title. This code provides the following information: the first number is the semester hours of credit for the course; the second number is the class hours of lecture, recitation or seminar meetings per week; and the third number is the required laboratory hours per week. The letter "A" indicates that the hours are "Arranged," usually with the instructor of the course.

New Courses

In order to meet changing educational requirements, the University reserves the right to add any needed courses at any time without regard to the listing of such courses in the catalog. These courses will appear in the next catalog. The right to change numbers in order to indicate changes in semester hours also is reserved for the reasons above.

Semester Hour

The unit of measure for credit purposes is the semester hour. One hour of recitation (or equivalent in laboratory work) each week usually is equal to one semester credit hour. For each classroom hour, at least two hours of study are expected. Two or more hours of laboratory work are counted as the equivalent of one lecture hour. For laboratory work, which requires reports to be written outside of class, two clock hours are usually counted as one semester credit hour. Twelve semester hours is the minimum full-time load (nine for graduate students) in Fall and Spring semesters, four semester hours in each Summer term.

Maximum Course Loads

The normal course load in a regular semester is 15-18 semester hours; for a six-week summer term, 6-8 semester hours. Overloads must be approved by the student's academic dean. No student will be allowed to enroll for more than 21 semester hours in a regular term or nine semester hours in a summer term.

Registration for Classes

Students will be permitted to attend class only when the instructor has received evidence of proper registration. Registration dates and deadlines are listed in the official University calendar. Students may add courses, make section changes or drop courses only within the periods specified in the calendar. The Records Office prepares and distributes a schedule of classes well in advance of a given semester.

Minimum Class Enrollment

The University reserves the right not to offer any undergraduate course if fewer than 10 students register for the course.

Course Auditing by Senior Citizens

Senior citizens, 65 years of age or older, may audit courses without the payment of fees on a space-available basis. For further information, call 880-2311.

Class Attendance

Regular class attendance is important to the attainment of the educational objectives of the University. Instructors should keep attendance records and should formulate an

attendance policy consistent with departmental policies, but suited to the needs of the particular course. The instructor's policy is to be explained in detail to the class at the beginning of the semester.

Student Absences on Religious Holy Days

Under Texas Education Code, Section 51.911, Lamar University shall excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an exam or complete an assignment from which the student is excused within a reasonable period of time after the absence.

Texas Education Code, Section 51.911, defines a religious holy day. If a student and an instructor disagree about the nature of the absence being for the observance of a religious holy day as defined therein, or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the Executive Vice President for Academic Affairs. The student and the instructor shall abide by the decision of the EVPAA.

Course Repetition

A course may be repeated for additional credit only as specified by the course description in this General Catalog. With department chair's approval, a student may repeat a course that is not ordinarily repeatable for additional credit only when a grade of "C" or below has been earned. When these conditions are met, the official grade is the last one made, but the original grade remains on the student's record as a course taken and is included in the student's cumulative grade point average calculation.

Grade Replacement Policy

Students will have one chance to replace a grade for a course. If a student repeats a course, the official grade is the second one made, although the original grade remains on the student's transcript. A grade, once earned and entered on a student's record, cannot be removed. The repetition of a Lamar University course at another institution will not replace a grade in the grade point average (GPA) calculation of the Lamar University course. Any further grades earned by further repetition of the same course will be used in calculating the University GPA. Eligibility for all University honors will be determined on the basis of a cumulative GPA that includes all grades earned at Lamar University.

Any student who wishes to repeat a course must do so before completing a more advanced course in the same subject. The chair for the department offering the course will determine what constitutes a more advanced course. Before registering to repeat a course for grade replacement, a student must receive approval from the department chair or advisor.

This policy does not apply to classes repeated before the fall of 2000. Students may obtain a grade replacement form from the Records Office. Students are responsible for completing and filing the grade replacement form with the Records Office after talking to their advisor and registering for the course. In accordance with State law, additional tuition will be charged when a student enrolls in the same course for the third or sub-

sequent time. This includes transferred courses and dropped courses. For more information, please contact the Registrar, 880-1718.

Once a degree has been conferred, a student may not use the Course Repetition/Grade Replacement Policy for any courses used to award the degree or calculate the cumulative grade point average.

Developmental Studies

To assist students in meeting the requirements of the Success Initiative Program, Lamar University offers courses and laboratory programs at the developmental or pre-collegiate level. Students who fail one or more portions of the Texas Higher Education Assessment (THEA) must be enrolled in at least one developmental program – either an 0371 course or the 0071 laboratory program. For detailed information about courses, laboratories and policies, contact the Developmental Studies office (409-880-8954).

Pre-Collegiate Courses

To serve students whose performance on the THEA examination indicates significant under-preparation, pre-collegiate courses are offered in each of the THEA areas. The following pre-collegiate courses are offered:

DRDG 0371 – Developmental Reading

Development of basic reading skills at the college level. The course is required of all students who have not passed the reading portion of the THEA exam. This course does not satisfy the general degree requirements for any major.

Prerequisite: None

DMTH 0371 – Algebra I and Geometry

Development of basic algebraic skills. This course is a prerequisite for DMTH 0372 and required for all students who have not passed the mathematics portion of the THEA exam. This course does not satisfy the general degree requirement for mathematics.

Prerequisite: DMTH 0071 or equivalent

DMTH 0372 – Algebra II

Development of intermediate algebraic skills. The course is a prerequisite for MATH 1314 or MATH 1324. This course does not satisfy the general degree requirements for mathematics.

Prerequisite: DMTH 0371

DWRT 0371 – Developmental Writing

Development of basic composition and writing skills. This course is a prerequisite for all students who have not passed the writing portion of THEA. This course does not satisfy general degree requirements for freshman English.

Laboratories

To serve students whose performances on the THEA examination indicate minor degrees of under-preparation, developmental laboratory programs are offered. The Developmental Math Lab also accommodates the student who is severely under-prepared. These laboratories are non-credit programs. The following laboratories are offered:

DRDG 0071 – Developmental Reading Lab Program

This program develops and maintains reading skills for the student who is marginally under-prepared in these skills.

Prerequisite: Drdg 0371 or a score of 220-229 on the reading portion of the THEA.

DMTH 0071 – Developmental Math Lab Program

This program develops and maintains mathematical skills for the under-prepared student.

Physical Activity Course Registration Requirement

All full-time students (those taking 12 or more semester hours) must register for one semester hour of physical activity except as follows:

1. Those who are unable to participate in a regular activity course or a modified program of activity because of physical limitations (must have written exemption from the university physician).
2. Students who are 25 or more years of age may be exempted from this requirement at their option.
3. Persons who have completed basic training as a part of their military service may be exempt from the required physical education courses at their option.

Students exempted from the physical activity requirement must submit an elective hour approved by their major department in lieu of the requirement.

Engineering Cooperative Programs

A cooperative program is offered to a limited number of qualified students. Students alternate terms between work and study. To remain in the program, students must maintain a satisfactory grade point average and perform in a manner satisfactory to both their employer and Lamar University. Further information may be obtained from the Director of Engineering Cooperative Education, Box 10057, (409) 880-8753.

Changing Schedules

All section changes, including adds and drops for Engineering majors, General Studies majors and students who have not passed all parts of the THEA examination, must be approved by the student's Academic Advisor. All such changes are initiated by the completion of the proper form available in the department office. All THEA restricted and Individual Approval students must receive approval from the Office of Developmental Studies to add or drop a course. Usually, a course may not be added after the first two days of the semester.

Dropping Courses

After consultation with their advisor and/or department chair, students may drop a course and receive a grade of "Q" during the first six weeks (two weeks in the summer session) of the semester. For drops after this penalty-free period, grades are recorded as "Q" or "F" indicating the student was passing or failing at the time of the drop. A grade of "Q" may not be assigned unless an official drop has been processed through the Records Office. Students may drop a course using Lamar's website (www.Lamar.edu) or telephone registration system, (409) 839-2000. In addition, students may get a drop form from their major department and obtain the appropriate signatures before submitting it the Records Office. A student may not drop a course within 15 class days of the beginning of final examinations or five class days before the end of the summer term. Students should check the published schedule for specific dates. A written petition to the Dean of the College in which the course is offered is required of students wishing to drop a course after the official drop date.

Instructor Initiated Drop

When unexcused absences seriously interfere with a student's performance, the instructor may recommend to the department chair that the student be dropped from

the course. If this action is taken after the first six weeks of the semester, a grade of "F" may be recorded for the course. The student's major department will be notified that the student was dropped for excessive unexcused absences. Students remain responsible for initiating drop procedures if they find that they cannot attend classes.

Reinstatement to Class

A student dropped from a course may be reinstated upon written approval by his/her major department chair, instructor and the instructor's department chair. A petition for reinstatement must be completed and approved to be reinstated in a course.

Withdrawals

Students wishing to withdraw from the university during a regular semester or summer term should fill out a Withdrawal Petition (available in the Records Office). Students must clear all financial obligations and return all uniforms, books, laboratory equipment and other materials to the point of original issue. If, however, the student is unable at the time of withdrawal to clear financial obligations to the University and files with the Records Office an affidavit of inability to pay, the student will be permitted to withdraw with the acknowledgment that transcripts will be withheld and re-entry to Lamar University will not be permitted until all financial obligations are cleared. Copies of the withdrawal form signed by the student and by the department chair must be presented to the Records Office by the student. The student will receive a receipt. The Finance Office, on application before the end of the regular semester or summer session, will return such fees as are returnable according to the schedule shown under the "Fees" section of this catalog. If a withdrawal is made before the end of the sixth week (second week of a summer term) or if the student is passing at the time of withdrawal after the sixth week, a grade of "W" will be issued for each course affected. A grade of "F" may be issued for all courses not being passed at the time of withdrawal after the penalty-free period.

A student may not withdraw within 15 class days of the beginning of final examinations during a regular semester or five class days before the end of a summer term. A student who leaves without withdrawing officially will receive a grade of "F" in all courses and forfeit all returnable fees. Students should check the published schedule for specific dates. Students wishing to withdraw after the official withdrawal date may submit a written petition to their Dean.

Enforced Withdrawal Due to Health Reasons

The Director of the Health Center and the Vice President of Student Affairs, on the advice of competent medical personnel, may require withdrawal or deny admission of a student for health reasons (mental or physical).

Change of Major

Students wishing to change majors must have the approval of the chair of the department of their former major and approval of the chair of their new department. These approvals must be in writing on the form entitled "Change of Major," and the completed form must be filed with the Records Office, Wimberly 101.

Change of Address or Name

Students are responsible for all communications addressed to them at the address on file in the Office of Records. Any student who moves during a semester must immediately register his or her change of address in the Records Office. Change of address forms are available in the Records Office.

Change of name due to marriage or correction of name because of spelling errors should be made by completing a name change card at the Records Office. All name changes must be accompanied by a copy of the legal document making the name change official. This document will be kept on file in the student's official folder. Students are advised that former names will be carried on all official transcripts.

Interchange and Recognition of Credits

Credits earned at Lamar State College-Port Arthur, Lamar State College-Orange, the Lamar Institute of Technology and other accredited institutions may be applied to degree programs of the University when such credit is appropriate to established programs. Separate grade point averages and transcripts are maintained by each campus. For transfer credit evaluation, an official transcript from each institution must be received by Lamar University's Admissions Office.

Simultaneous Enrollment

Students who desire to enroll simultaneously at more than one institution of higher education must have the prior written approval of their Lamar University academic advisor and department chair for all classes to be taken. Such approval may be granted only if all Lamar University academic policies are adhered to by the course work taken as a whole. For example, academic load restrictions and probation restrictions would apply to the total credit hours taken at all institutions. Written approval is to be retained in the student's permanent file.

Transfer Credit for Correspondence Courses

Lamar University does not offer correspondence courses; however, a maximum of 18 semester hours of correspondence work from accredited institutions may be applied toward a bachelor's degree. No correspondence course may be carried while a student is in residence without the permission of the student's department chair. A permit signed by the department chair must be filed in the Records Office before registration for the correspondence course.

A student may not: (1) register for, carry or complete a correspondence course during the last semester or summer session before graduation, nor (2) receive credit for any junior or senior course taken by correspondence, except in the following circumstances: (a) a course required for graduation is not offered by Lamar; (b) the student has a schedule conflict between required courses or (c) a nonresident senior who is within six hours of graduation and who has filed a statement of intent to complete work by correspondence. This statement of intent must be approved by the department chair and filed in the Records Office no later than the last date to apply for graduation. Seniors must file correspondence transcripts at least 14 days before graduation. Credit by correspondence for a course failed in residence will not be accepted toward graduation.

Student Responsibility

All students are responsible for knowing the academic regulations stated in this catalog. Unfamiliarity does not constitute a valid reason for failure to adhere to them.

Academic Progress

Classification of Students

Students are classified as freshmen, sophomores, juniors, seniors, post-baccalaureate and graduate students. Officially enrolled students in academic good standing are classified as follows:

Freshman: all entrance requirements have been met, but fewer than 30 semester hours have been earned;

Sophomore: has earned a minimum of 30 semester hours with 60 grade points;

Junior: has earned a minimum of 60 semester hours with 120 grade points;

Senior: has earned a minimum of 90 semester hours with 180 grade points;

Post baccalaureate: holds a bachelor's degree, but is not enrolled in a degree program, or has not been admitted to a graduate program. Courses taken as a post-baccalaureate may not apply to a graduate degree.

Graduate: has been formally accepted by a graduate program and is pursuing a graduate degree (see Graduate Studies Catalog).

A full-time student is an undergraduate student taking 12 or more semester hours in the fall or spring (four or more in a summer term) semester. A full-time graduate student is one who takes nine or more semester hours in the fall or spring semester (three or more in a summer term). Some sources of student aid reduce payments to students dropping below full-time status.

Grading System

A	-	Excellent	W	-	Withdrawn from University
B	-	Good	Q	-	Course was dropped
C	-	Satisfactory	S	-	Credit
D	-	Passing	U	-	Unsatisfactory, no credit
F	-	Failure	NG	-	No grade
I	-	Incomplete			

The grade of "W" or "Q" is given if the withdrawal or drop is made before the penalty date (see Dropping Courses) or if the student is passing at the time of withdrawal or drop. The grade of "I" may be given when any requirement of the course, including the final examination, is not completed. Arrangements to complete deficiencies in a course should be made with the instructor. Incomplete work must be finished during the next long semester, or the Records Office will change the "I" grade to the grade of "F". The course must then be repeated if credit is desired. An "I" grade will automatically become an "F" if the student reregisters for the course before removing the deficiencies and receiving a grade change. The instructor may record the grade of "F" for a student who is absent from the final examinations and is not passing the course.

Semester grades are filed with the Records Office. Except in very unusual situations, no grade may be corrected or changed without the written authorization of the instructor who assigned the grade. The grade change form requires the reason for the change and must be approved and signed by the instructor and department chair. All changes involving "Q" and "W" also require the approval and signature of the dean. If the requested change is for a grade assigned more than one year before the request, the dean also must approve and sign the form. If the requested change is for a grade assigned more than three years before the request, the Associate Vice President for Academic Affairs also must approve and sign the form. After a degree has been conferred, no transcribed grade may be changed except those assigned to graduating seniors in their final semester. Such changes require the approval of the Executive Vice President for Academic Affairs. Since faculty are required to retain academic records for only three years, students should make every effort to submit grade change requests as soon as possible.

A student desiring to register for a course to receive a "NG" (signifying "No Grade") must have the written approval from the major department chair, instructor, and instructor's department chair as well as Records Office verification. Student semester hours attempted will be reduced by the appropriate number of hours.

Students are responsible for completing and filing the appropriate petition form with the Records Office. The deadline each semester for filing the petition for "No Grade" with the Records Office is the same as the deadline for dropping or withdrawing from a course without penalty. See the Schedule of Classes Bulletin for specific dates. This deadline does not apply for thesis, dissertation or other courses specifically approved in advance for using "NG" to indicate that continued academic progress is being made by the student.

Grade Point Average Computation

The grade point average is a measure of the student's overall academic performance and is used in the determination of academic standing, rank in class, eligibility for graduation, etc. Grade point averages are computed separately for technical and academic programs, except for graduation honors and certain special degree requirements.

To compute grade point averages, grade points are assigned to letter grades as follows: to the grade "A," 4 points; to "B," 3 points; to "C," 2 points; to "D," 1 point, and to "F," "I," "S," "U," "NG," "Q," "W," 0 points. The number of grade points earned in a course is obtained by multiplying the number of semester credit hours by the number of points assigned to the grade made in the course.

The grade point average is calculated by dividing the total number of grade points earned by the total number of semester hours attempted in courses for which the grades "A," "B," "C," "D," and "F" are assigned. Thus, for grades, "I," "S," "U," "NG," "W," and "Q," neither semester hours nor grade points are used in the computation of the grade point average. Hours attempted include all work taken, whether passed, failed or repeated. Courses in which a grade of "S" or "U" is assigned are used in calculating a student's semester hour load and to determine full-time/part-time status, but are not included in the grade point average.

This method of calculating grade point averages will apply to all students in baccalaureate programs of study effective July 5, 1978. The University's former repeat policy will not apply to students in four-year programs after this date; thus, the grade of a course repeated after July 5, 1978, may not be substituted for a prior grade.

Academic Records and Transcripts

Academic records are in the permanent custody of the Records Office. Transcripts of academic records may be secured by an individual student personally, or will be released on the student's written authorization. College transcripts on file from other colleges will not be duplicated by Lamar University's Records Office. Separate grade point averages and transcripts are maintained for Lamar Institute of Technology work.

Students who owe debts to the University or who have not met entrance requirements may have their official transcripts withheld until the debt is paid or credentials are furnished.

Chapter 675, Acts of the 61st Legislature, 1969 Regular Session, provides that "no person may buy, sell, create, duplicate, alter, give or obtain a diploma, certificate, academic record, certificate of enrollment or other instrument which purports to signify merit, or achievement conferred by an institution of education in this state with the intent to use fraudulently such document or to allow the fraudulent use of such document."

"A person who violates this Act or who aids another in violating this Act is guilty of a misdemeanor and upon conviction, is punishable by a fine of not more than \$1,000 and/or confinement in the county jail for a period not to exceed one year."

Final Grades

Grades are available at the end of each regular semester or summer term through the *TouchNet*® telephone system by calling (409) 839-2000 or via the Internet at www.lamar.edu. Students should report any errors or discrepancies to the Records Office.

Dean's List and President's List

At the end of each semester, each college dean prepares a list of all full-time (those who complete 12 or more semester hours) freshman and sophomore students who have earned for that semester a grade point average of 3.40 or above and junior and senior students who have earned for that semester a grade point average of 3.60 or above. This list is the Dean's List and is announced by the academic dean of each college.

Full-time (12 or more completed credit hours) undergraduates who earn a 4.0 grade point average for a long semester are included in the President's List. Any student with an "I" grade is ineligible for Dean's List or President's List consideration until the "I" is officially changed.

Names of students who have a directory hold will not appear in the newspaper and may not appear on the Dean's or President's List.

Scholastic Probation and Suspension

Lamar University students are expected to maintain a 2.0 ("C") or better cumulative grade point average. Students with a cumulative grade point average of less than a 2.0 will be placed on probation or suspension in accordance with the following rules.

Freshmen (30 or fewer semester credit hours) with a cumulative grade point average of 1.15 to 1.99 will be placed on academic probation. Those with a cumulative grade point average of less than 1.15 may be suspended from the University.

Sophomores (31-60 semester credit hours) with a cumulative grade point average of 1.58 to 1.99 will be placed on academic probation. Those with a cumulative grade point average of less than 1.58 may be suspended from the University.

Juniors (61-90 semester credit hours) with a cumulative grade point average of 1.72 to 1.99 will be placed on academic probation. Those with a cumulative grade point average of less than 1.72 may be suspended from the University.

Seniors (91 or more semester credit hours) with a cumulative grade point average of 1.79 to 1.99 may be suspended from the University.

Academic suspension designates the loss of "good academic standing" and the disruption of "satisfactory progress" toward degree completion. Suspended students will be notified, in writing, of their suspension by their academic dean. Students will not be suspended after their first long semester at Lamar University, nor will students be suspended if the suspension results from an "I" being treated as an "F" in the calculation of the cumulative grade point average.

After serving a first-time suspension of one long semester, students may be permitted to re-enroll on probation and continue as long as satisfactory progress (semester grade point average of 2.0 or better) is made. If satisfactory progress is not made, a second suspension of two long semesters will result. Students who fail to maintain satisfactory progress following a second suspension will be expelled from the University. All students seeking to return to Lamar University following a suspension must maintain written permission for re-enrollment from the dean of their college.

Suspended students—except those expelled from the University—may attend the summer session on probation. At the end of the summer session, students who were suspended will be reinstated and may register for the fall semester if their cumulative grade point average improves to a satisfactory level during the summer.

A college, with the approval of the Executive Vice President for Academic Affairs, may prescribe academic requirements for its majors in addition to the basic University grade point average standard. Students suspended under these provisions may register in another college at Lamar University provided they meet the prescribed standards and are accepted through the normal change of major procedure. Students may not register for 300 or 400-level courses offered by the suspending college unless such courses are required by their new curriculum.

Academic Appeals Procedures

After an enrollment lapse of four or more years from Lamar University and after completing successfully (2.20 grade-point average or higher) 24 or more hours of work at Lamar University, a student may petition to disregard one or two entire semesters/terms of course work taken previously at Lamar University. The petition shall be filed with the department chair and follow regular channels to the Associate Vice President for Academic Affairs for a final decision. Endorsements and/or recommendations shall be required at each level. When approved by the Associate Vice President for Academic Affairs, disregarded work shall not count in determining the student's grade point average for academic progress or for graduation; however, the work shall remain on the transcript with an appropriate notation and shall be used in determining academic honors. Receiving institutions or agencies may use their own policies to compute a grade point average. Once a degree has been conferred, a student may not use the Academic Appeals procedure for any courses used to award the degree or calculate the cumulative grade point average.

Degree Requirements

General Education Requirements – Bachelors' Degrees

1. Satisfy all admission conditions.
2. Complete the **Philosophy of Knowledge Core** (see page 14 of this catalog).
3. Meet the following minimum requirements:
 - A. A grade point average of at least 2.0 on all courses in the major field and on all courses attempted (some departments may require a higher grade point average).
 - B. Successfully complete a minimum of 120 semester hours. In addition, the following requirements must be met:
 - 1) 30 semester hours in residence at Lamar University with at least 24 semester hours earned after attaining senior classification, except for special degree programs in biology and medical technology;
 - 2) 30 semester hours at the junior and senior level (upper division), of which 18 hours must be completed at Lamar University;
 - 3) 24 semester hours in a major field with at least 12 in upper division courses;
 - 4) No more than 18 semester hours of correspondence work and no more than 30 semester hours of correspondence, extension work and/or credit by examination combined may be applied to the bachelor's degree.
4. Complete the program of study for the major listed in the bulletin.
5. Make application for the bachelor's degree and pay all the designated fees.
6. Attend the official graduation exercise or properly notify the Record's Office.

Second Bachelor's Degree

A second bachelor's degree may be granted upon the completion of all requirements for the degree. A minimum of 30 additional hours beyond those required for the first degree, as specified by the department granting the second bachelor's degree, must be completed at Lamar University.

Multiple Majors within a Single Baccalaureate Degree

Lamar University students may earn two or more majors within a single baccalaureate degree program provided they satisfy all academic requirements for each major. Academic requirements for second majors shall be determined by the department responsible for the second major. Approval of the multi-major degree plan must be obtained, in writing, from the department chair of the second major before the student applies for graduation. Third and subsequent majors shall follow the same procedures. Non-disciplinary majors such as Applied Arts and Sciences and General Studies shall not be allowed in multi-major degree programs. Once a baccalaureate degree is conferred, additional majors may not be added to the degree. In situations where majors cross degree lines, the baccalaureate degree of the primary major shall be the degree awarded.

Bachelor of Arts Degree

1. Satisfy all admission requirements.
2. Meet the University's general education requirements for a bachelor's degree;
3. Complete the course numbered 2312 in a foreign language or with approval of the major department, CMDS 4305, Sign Language III;
4. Complete six semester hours of literature;
5. Complete a minor of 18 semester hours, six of which must be in advanced courses; and,
6. Meet the specific requirements of the selected program of study as listed in the department concerned.

Bachelor of Applied Arts and Sciences Degree**Bachelor of Business Administration Degree****Bachelor of Fine Arts Degree****Bachelor of General Studies Degree****Bachelor of Music Degree****Bachelor of Science Degree****Bachelor of Social Work Degree**

1. Satisfy all admission requirements.
2. Meet the University's general education requirements for degree.
3. Meet the specific requirements of the selected program of study as listed in the department or program concerned.

Special Degree Programs

Biology. A student may receive the degree of Bachelor of Science, biology major, after completion of one year in an approved college of dentistry or medicine.

The following minimums are required:

1. Satisfy all admission requirements.
2. Complete 106 semester hours of the basic requirements for the Bachelor of Science degree; this includes all the required minimums except the total of 140 semester hours;
3. Complete the biology core;
4. Furnish proof of at least 30 semester hours in an approved domestic college of dentistry or medicine;
5. Formally apply for the degree before graduation deadline.

Associate of Applied Science Degree—Nursing

1. Satisfy all admission and pre-admission course requirements;
2. Complete the approved degree plan and file with the Records Office;
3. Earn a grade of "C" or better in English composition, nursing and science courses;
4. Earn an overall grade point average of 2.0 or higher in all course work;
5. Complete at least 24 semester hours of major work at Lamar University with at least 12 hours at the 200-level;
6. No more than 15 semester hours of correspondence and/or extension credit may be applied toward the degree; and,
7. Make final application and pay all fees by the deadline date as stated in the current Catalog.

Minor Field Requirements

In addition to the major field of study in a baccalaureate degree program, a Lamar University student may (or, if required by his or her major program, must) choose a minor field of study from those listed and described in this *Catalog*. The minor will be indicated on the student's official transcript and, with approval of the student's department chair, two or more minors may be earned. All minors must consist of a minimum of 18 semester hours, nine of which must be earned in upper division (3000 & 4000) courses. Minor field hours must be earned in a discipline other than the major field of study. Students must earn a grade point average in the minor field of at least a 2.00, including grades for any transfer credit applied to the minor. The specific requirements for each minor will be established by the department or program offering the minor and may include additional hours (total and/or upper division), specific courses and/or certain levels of academic performance. These requirements are published in the appropriate section of this *Catalog*.

Although not all disciplines of study at Lamar are available as minors, a minor may be offered in any discipline for which Lamar University offers an undergraduate major. Normally, minor course work is an appropriate subset of the major. In certain instances, interdisciplinary minors (which must have a specified administrative home) and minors in non-major disciplines for which there are a sufficient number and offering of courses are available and are noted in this *Catalog*. Following a review and recommendation from the University Curriculum Council, the Executive Vice President for Academic Affairs approves all minors and decides all disputes regarding minors. Questions about minors should be referred to the appropriate academic department chair or program director.

Graduation

Application for Graduation

The graduation process consists of the following steps, which must be completed before graduation by the student. The student must:

1. Request the sponsoring department send an approved degree plan to the Records Office by the due date listed in the current catalog,
2. Have proof of eligibility for admission in the student's file,
3. Submit all transcripts of college coursework from non-Lamar University, Beaumont institutions to the Records Office,
4. Achieve a grade point average of 2.0 on a 4.0 scale on all Lamar University, Beaumont work taken and on all college coursework in the student's major; a course is counted each time taken, whether failed or passed;
5. Complete an application for graduation in the Records Office and pay necessary fees for cap, gown and diploma by the deadline listed in the current catalog; and,
6. Clear all financial and property matters by the deadline.
7. If the student does not graduate, the department must submit a new degree plan. The student must reapply and repay fees in the Records Department in order to graduate at a later date.

The student is responsible, with the concurrence of the major department, for securing official advisement about study plans for the last two semesters, for making application to graduate and for checking compliance with all degree requirements.

Graduation Under a Particular Catalog

A student is entitled to graduate under the degree provisions of the catalog in effect at the time of the student's first completed semester of enrollment with these exceptions:

- a. A catalog more than seven years-old shall not be used.
- b. The program of the student who interrupts enrollment (for reasons other than involuntary military service) for one calendar year or more shall be governed by the catalog in effect at the time of the student's re-entrance to the University. The student who interrupts enrollment for involuntary military service must re-enroll within one year from the date of separation from military service in order for this provision to apply. For these purposes, enrollment shall be defined as registration for and successful completion of at least one course during an academic term. A student forced to withdraw for adequate cause before completion of a course may petition for a waiver of this provision at the time of withdrawal.

The program of the student who first declares a major or who changes major from one department to another within the University shall be governed by the departmental degree requirements in effect at the time the change of major becomes effective. General degree requirements (core curriculum) shall be those in effect at the time of the student's first completed semester of enrollment, provided neither condition "a" nor "b" prevails.

Any student transferring from a community college to Lamar University can qualify to graduate under the general degree requirements of the catalog in effect when the student entered the community college. However, students who interrupt their studies for one calendar year or more at the other institution or before transferring to Lamar University are subject to the general degree requirements of the catalog in effect when they return to that institution or enroll at Lamar University.

At the discretion of the appropriate academic dean, students can be required to comply with all changes in the curriculum made subsequent to the year in which they were initially enrolled. Deletions and additions of courses will be of approximately equal credit so no student will have an overall appreciable increase of total credits required for graduation.

Students with credits earned from Lamar University prior to Fall 1999, may elect to complete either the core curriculum (and other graduation) requirements in effect at the time of the student's first completed semester/session at Lamar or the core curriculum requirements in effect with the Fall 1999 semester. The appropriate department chair and dean must approve exceptions to this policy.

Students who transfer to Lamar University from another Texas public institution of higher education shall be governed by the provisions of Texas Senate Bill 148 (75th Legislature). Lamar will accept, *en bloc*, an approved core curriculum successfully completed at another Texas public institution of higher education in lieu of Lamar's core curriculum. Any student who transfers to Lamar University before completing the core curriculum of another Texas public institution of higher education shall receive academic credit at Lamar for each of the courses that the student has successfully completed in the core curriculum of the other institution; however, the student shall be required to complete Lamar's core curriculum. Students transferring to Lamar from institutions of higher education outside of Texas or from private institutions within Texas shall be subject to the requirements of Lamar's core curriculum.

Graduation Honors

To be designated an honor graduate, a member of the graduating class must: (1) have completed at least 60 semester hours at Lamar University in Beaumont for a four-year degree or 30 semester hours for a two-year degree, and (2) have a grade point average of at least 3.50 for all undergraduate course work (and all graduate course work applied to a baccalaureate degree) attempted at Lamar University in Beaumont. If conditions (1) and (2) are satisfied, only course work attempted at Lamar University in Beaumont will be included in the grade point average (GPA) calculation for honors. Transfer course work will not be included in the calculation of GPAs for Honors. A GPA of 3.50 to 3.64 qualifies for 'cum laude' (honors), 3.65 to 3.79 for 'magna cum laude' (high honors), and 3.80 to 4.00 for 'summa cum laude' (highest honors). Grades made the semester of graduation are included in the calculation of GPAs for honors. Honor graduates will be recognized during graduation ceremonies.

Policies Subject to Change

Although every effort is made to provide complete and accurate information in this catalog, changes may occur at any time, without notice, in academic policies and regulations.

University Honors Program

Director: Donna B. Birdwell
Assistant to the Director: Kevin Dodson

102 ROTC Building
Phone: 880-8658

The University Honors Program at Lamar is designed to bring out the best in Lamar's academically talented students and to serve as a core of academic excellence within the University community. The Honors Program exists to give bright, motivated students the opportunities and environment that will enable them to develop into creative and productive people. Incoming freshmen are expected to have an SAT score of 1200 or above or a ranking in the top 10 percent of their high school graduating class. Students already enrolled at Lamar must have a University GPA of at least 3.3 to apply. Honors Program students must have a GPA of 3.2 to maintain eligibility. Applications are available in the Honors Program office or may be downloaded from the Lamar University website.

The Honors Program offers enriched classes in most of the Core Curriculum of the University, upper-level interdisciplinary classes, enhanced classes in many majors, and opportunities for Independent Study and the Honors Thesis, as detailed below. All Honors Program students, regardless of major, are encouraged to become Honors Program Graduates through accruing 24 Honors credit hours including the Honors Thesis, or 27 hours (of which 9 hours must be at the junior or senior level) without the thesis. Honors Program students are eligible for the McMaster Honors Scholarship and the Tom Jones Memorial Scholarship and are members of the Honors Student Association. Please contact the Director for further details.

The Honors Program also administers Lamar's **Scholars Development Program**, which was initiated in 2003 to provide preparation and guidance to those Lamar students who indicate both a desire and the general capability for graduate work. It is expected that Lamar will select nominees for national scholarships and fellowships

from among participants in the Scholars Development Program (although not exclusively, nor will all participants necessarily receive a nomination). Students are nominated by their professors for the Scholars Development Program and will normally enroll in HNRS 2160 (Scholars Development Seminar) during their sophomore year.

Honors Core Curriculum Classes

CHEM 1460	Honors General Chemistry*
COMM 1380	Honors Public Speaking*
ENGL 1360	Honors Composition and Rhetoric I*
ENGL 1361	Honors Composition and Rhetoric II*
ENGL 2360	Honors Sophomore Literature*
HIST 1361	Honors American History: History of the United States, 1763 to 1877*
HIST 1362	Honors American History: History of the United States since 1877*
HUMA 1360	Honors Society and the Arts - <i>Interdisciplinary focus on the interrelationship of the fine arts (art, music, drama), with particular emphasis on the fine arts as expressions of culture.</i>
MATH 1360	Honors College Algebra*
MATH 2460	Honors Calculus and Analytic Geometry*
PHIL 1360	Honors Philosophy of Knowledge*

Equivalent

CHEM 1412 (Chemistry II)
COMM 1315
ENGL 1301
ENGL 1302
(any sophomore literature)
HIST 1301
HIST 1302
(any fine arts)
MATH 1314
MATH 2413
PHIL 1370

* See departmental listings for detailed descriptions of these classes.

In addition to the above Honors classes, Lamar offers Honors sections (usually designated as section 60) of American Government I and II (POLS 2301 and 2302) and several classes that satisfy the core social science requirement: ANTH 2346 (Introduction to Anthropology), ANTH 2351 (Cultural Anthropology), ECON 1301 (Principles and Policies), PSYC 2301 (General Psychology), SOCI 1301 (Introduction to Sociology). Occasionally, Honors sections are offered for other classes in a student's degree plan. Honors sections have course assignments in addition to (or different from) the standard course. Students should consult with individual professors or the Honors Director for details.

Upper Level Honors Courses

Junior- and senior-level honors credits can be earned in several ways. 1) Through upper-level Honors seminars. 2) Through Honors Independent Study classes. 3) Through adding an Honors Contract to an upper-level class. 4) Through the Honors Thesis.

Upper-level Honors seminars include: ECON 3360 – Honors Global Economics; SOCI 3360 – Honors Human Nature and the Human Condition; CHEM/BIO 4360 – Honors Environment and Ecology; HNRS 4364 – Honors Topics. The latter course is offered by professors in any department who have a subject to teach that is not listed in the regular curriculum. Topics have included "Science Fiction and Fantasy," "The American Presidency," and "Literature of Redemption." Topics must be submitted to the Honors Council for approval.

Honors Independent Study (HNRS 3360) provides the opportunity for students in any major to create a course of study that is not covered in the regular curriculum. Students often use this opportunity for independent research and creative endeavor.

The **Honors Contract** may be used to enhance a course in the regular curriculum for Honors credit. Forms and guidelines for both of these options may be secured in the Honors Program offices or downloaded from the Honors website.

The **Honors Thesis** (HNRS 4360 and 4361) permits students aiming at post-baccalaureate degrees to demonstrate clearly the ability to complete a major research/creative project. For all students, it provides the opportunity to pursue in depth an area of study or research that is personally important or intriguing. Forms and guidelines regarding the Honors Thesis are available in the Honors Program office and online.

No Honors Program student may earn more than a cumulative total of 15 hours of Honors Credit through any combination of Independent Study, Honors Contracts, and the Honors Thesis.

Student Affairs

The Division of Student Affairs provides services and programs to enhance the education opportunities of students and enrich student life on campus.

The Division includes the Setzer Student Center, Student Health Center, Residence Life, University Food Service, Student Publications, the Career Center, Recreational Sports and the Student Government Association. The Vice President for Student Affairs, the Assistant Vice President for Student Affairs and the Coordinator for New Student Programs are located in the Office of Student Affairs, 115C Wimberly Building.

Student Affairs provides leadership in the formulation and administration of policies and procedures related to student life and to the rights and responsibilities that accompany student citizenship in the University community. The Student Conduct Code as well as other important information pertaining to student life is included in the *Student Handbook*. Significant sections in the handbook and other university publications clearly describe Lamar University's policies regarding such subjects as absence, AIDS, non-discrimination, drug-free schools, the Buckley Amendments, residency, hazing, sexual harassment, student's right-to-know and campus security. It is the student's responsibility to be knowledgeable of established University policies and procedures that are contained in the *Student Handbook* and to comply with them. Copies of the *Student Handbook* are available upon request in the Setzer Student Center and the Office of Student Affairs.

Career Center

Located in 102 Galloway Business Building the Career Center's professional staff assist students with all facets of career preparation, beginning with university entrance and special placement exams, major course of study selection, career choice and planning, part-time employment, resume preparation, interviewing preparation, goal planning and full-time employment after graduation. Students have access to on-line Internet job search and computerized guidance assessment programs.

LamarWork\$, the student employment service located in the Career Center, assists students in locating part-time jobs, internships, and on-campus work-study and student assistant opportunities. All services are free to the student. Additional information is available from the LamarWork\$ desk by calling (409) 880-1853.

The center has a full-time career counselor on staff to provide personalized assistance. In order to best serve as many students as possible, problems of a long-term, therapeutic nature cannot be addressed; however, initial consultation is available and, when feasible, referral to campus and community resources.

Job fairs are organized annually for the benefit of Lamar University students. The Career Expos are held each semester, and the Education Expo is held in the spring. These expos give students the opportunity to make initial contact with recruiting firms, contacts that may result in interviews on the Lamar campus or at the recruiter's headquarters during the spring (February and March) and fall (October and November). Each March, Lamar University also participates in the Texas Job Fair. Employers recruiting with the Career Center generally plan to fill permanent entry-level jobs, summer jobs, co-ops and internships.

The Career Center's Testing Office offers a full range of testing services for aptitude, achievement and career interest. The center also coordinates testing required by the University; provides individual interest, aptitude and personality assessment; and as a national and state test center administers the following:

- SAT (Scholastic Aptitude Test) for undergraduate admission. The SAT II Subject Area Tests are also given for students who wish to receive college credit.
- ACT (American College Testing Program) may be used instead of the SAT for undergraduate admission.
- THEA (Texas Higher Education Assessment) is required of all students for advisement and registration (unless exempted)
- CLEP (College Level Examination Program) may be used to get credit by examination. See detailed description of CLEP elsewhere in this catalog.
- GRE (Graduate Record Exam) subject tests are administered.
- LSAT (Law School Admission Test)
- MCAT (Medical College Admission Test)
- MAT (Miller Analogies Test) required for admission to some graduate programs
- Correspondence Exams

Information and registration forms are available in 102 Galloway Building, (409) 880-8444. Although the GRE general test and GMAT (Graduate Management Admission Test) are administered elsewhere, registration information is available in 102 Galloway.

The Career Center provides seven core services:

- 1) Career assessment, testing, exploration and decision-making. This is appropriate for all students, and is particularly important for the person who is trying to make a decision concerning a major.
- 2) Training—seminars on topics of resume writing, interviewing and the job search are taught many times each semester. Internet possibilities and videotapes are also used in training.
- 3) Part-time job placement, summer jobs and internships.
- 4) Full-time job placement and on-campus recruiting, plus a resume referral system are available to graduating students and alumni.
- 5) The teacher career fair is held in April each year and provides students the opportunity to interview with as many as sixty school district recruiters.
- 6) The Career Fair for all majors is held annually and affords students the opportunity to explore careers and to meet with future employers.

- 7) The Career library has information about employers and has resources about career planning on video and in print and computer formats.

Health Center

The Student Health Center offers various medical services to currently enrolled students. A physician and/or nurse practitioner is available to treat students for minor illnesses or injuries not requiring constant supervision. Students with chronic and/or serious conditions will require treatment off campus by their own family physician. Most health center services are available on a *walk-in* basis, and most of the medications prescribed are available in the health center pharmacy at a reduced cost. Students are charged only for medications, lab tests, and supplies, not for the office visit. All charges incurred are entered on the student account, thus no payment is required at the time of service.

Gynecological services and family planning are provided by female nurse practitioners at a reduced charge (*appointment only*). There is a lab charge for most gynecological services. A full-time health educator, in collaboration with student peer educators, offers health education to organizations, residence halls, classes, or individuals on a variety of health-related issues pertinent to the university population. The health center is also staffed with licensed counselors offer short-term psychological counseling, individual and group therapy, and mental health workshops at no charge. After hours, on weekends and when the university is not in session, healthcare becomes the individual student's responsibility. Any expenses incurred for ambulance service or off-campus medical needs are also the responsibility of the student. Students are encouraged to maintain some form of health insurance to cover these expenses, as they can be quite costly. Detailed information regarding health center services is available at <http://dept.lamar.edu/healthcenter/>.

Health Insurance

Health and accident insurance is required of all international students, residence hall occupants, and participants in intramural sports. Any registered student taking six or more credit hours (three hours during the summer sessions) is eligible for enrollment in an affordable insurance plan offered by an independent insurance company. This supplemental policy covers a portion of the costs for inpatient and outpatient medical services not available at the health center. Except in emergency situations, students are required to seek treatment at the health center first, where off-campus referrals will be issued if deemed necessary. Students enrolled in the plan may also insure their dependents; however, non-student dependents are not eligible to use the health center.

Premiums are due at the time of enrollment and are available per semester or on an annual basis. Detailed information and enrollment forms are available through the Student Health Center, the offices of Student Affairs or Residence Life, L.I.T. Student Services, or through the health center web site at <http://dept.lamar.edu/healthcenter/>.

Housing

The Housing and Residence Life program at Lamar University is designed to enhance the academic program by providing opportunities for intellectual and social development for students. The staff is committed to supporting the academic mission of Lamar University by giving the student several opportunities to become involved in the university community; to interact with people from different backgrounds; and to enhance academic, social and leadership skills. Residence Assistants (RAs) and Hall Directors serve as role models and advisors to residents in their respective buildings.

To apply for a room, contact Cardinal Village and request a Residence Hall/Food Service contract. The university reserves the right to assign specific residence halls and rooms. More detailed information regarding contract fees, submission procedures and room assignments is available in the *Student Handbook* or by calling Cardinal Village, (409) 880-8550.

Lamar University Residency Policy

All undergraduate, full-time students (those enrolled in 12 or more semester credit hours) with fewer than 24 earned semester credit hours are required to reside in a University-operated residence hall.

Exemptions to the University Residency Policy may be granted for the following reasons:

1. Student will reside with a parent, guardian or other adult relative.
2. Student is 21 years of age by the first class day.
3. Student will be enrolled only in evening classes.
4. Student is married or has dependent children.
5. Student has a medical exemption signed by his/her doctor.

Students wishing to be released from the University Residency Policy must fill out an "Off Campus Residency Request Form" with the Department of Housing. Official documentation verifying exemptions may be required by the Housing Office. Failure to comply with the stipulations outlined in this policy will result in disciplinary action.

Questions regarding the University Residency Policy may be directed to the Lamar University Housing Office, (409) 880-8111.

Room Assignments

Cardinal Village will make every effort to match residents with compatible roommates. Make sure that you fill out the personal information section in the Residence Hall/Food Service Contract accurately so that the staff can take into consideration this information when matching roommates.

Staff will make every effort to accommodate specific roommate requests; however, Cardinal Village reserves the right to make room changes at any time. Please see the Residence Hall/Food Service Contract Booklet for more details concerning room assignments and/or room changes.

Housing Fees

The Residence hall contract is for a full academic year (August through May). Specific room rates are listed in the contract booklet. Meal plans for student residents

are mandatory. Any student submitting a contract to reside on campus MUST select a meal plan from the available options. Room and board fees are charged to the student's account each semester. Students may elect to pay these charges in a lump sum or through the university installment plan as part of their total semester charges.

Students who fail to pay their room and board fees will be subject to both disciplinary action under the Student Code of Conduct and collection agency procedures. Additionally, if a student has not paid at least 50 percent of their total semester charges by a specified date, the student will be dropped from his or her classes.

For additional information and application forms, write to Cardinal Village, Lamar University Station, P.O. Box 10040, Beaumont, Texas 77710.

Parking

All faculty, staff and students are required to purchase a current parking permit and display it if they park a vehicle on campus. A copy of the parking and traffic regulations is issued at the time of permit purchase. Strict observance of traffic and parking regulations is necessary for the safe, orderly flow of vehicles in the campus area. Parking and traffic regulations are in effect 24 hours a day.

Setzer Student Center and Student Activities

The Setzer Student Center (SSC), named for Dr. Richard W. Setzer, university president from 1967 to 1969, is the center of student activities on Lamar University's campus. The Director of the Setzer Student Center, along with the assistant directors for activities and student organizations, develop and implement co-curricular programs that offer students a balance of campus life.

Housed in the SSC are various facilities to meet the needs of students. Mirabeau's and Cardinal Nest are food service facilities that serve a variety of menu items. Taco Bell and Pizza Hut are two franchises that serve specialty items. The Center services include the University Bookstore, Student Organization Services, Student Government Association, Setzer Student Center Reservations, Lamar Alive! and administrative offices. More information about the Student Center and its services is available by calling (409) 880-8722.

Student Organizations

More than 150 student organizations are currently active at Lamar and offer student membership opportunities in one or more of the following umbrella groups: professional/departmental, religious, mutual interest, service, honor, spirit, sports or social groups. Participation in well-developed, co-curricular activities enhances the educational experience. Students are encouraged to join the organization(s) of their choice and participate in developmental, leadership and philanthropic programs.

Students may obtain additional information by contacting the Office of Student Organization Services at (409) 880-8722.

Lamar Alive!

The Lamar Alive! student programming board is responsible for providing the campus with a diverse schedule of programs and extracurricular activities. The programming board of Lamar Alive! consists of student directors, along with their committees, who develop social, educational and cultural opportunities for Lamar University and Institute of Technology students. Dedicated volunteers and committee members plan

for traditional events such as Homecoming, Mardi Gras celebrations, AIDS awareness, Diversity Week, lectures, Cardinal Comedy Corner, Poetry Night and other special events. Membership is open to all students who meet the University's extracurricular activity policy standards as outlined in the *Student Handbook*. For more information, contact the Assistant Director for Activities, (409) 880-8722.

Student Government Association

The Student Government Association (SGA) serves as the representative voice of students, as a major facilitator of new and improved student services and programs, and is an important role relative to student judicial proceedings. All regularly enrolled Lamar University students are represented by the Student Government Association, which affords each student an opportunity to promote, support and participate in a well-rounded student life program. Students serve on the student affairs, academic affairs and/or public relations standing committees in addition to serving on other university advisory committees.

The president and members of the Student Senate are elected each spring in a general student election. The vice president and secretary-treasurer are elected annually by the Student Senate, which meets weekly. Student interests or concerns may be expressed at the open meetings of the Senate, or submitted through SGA suggestion boxes at various campus locations.

The Student Government Association office is located in Room 211 of the Setzer Student Center, (409) 880-8891.

Student Publications

University Student Publications include the *University Press*, the campus student newspaper published twice each week during the long semesters, and *Pulse*, a literary magazine of student writing. The *University Press*, with offices in 200 Setzer Student Center, serves as a training opportunity for students interested in journalism. *Pulse* offices are located in 03 Maes Building.

Honor Societies and Recognition Programs

Alpha Lambda Delta National Honor Society encourages and recognizes outstanding scholastic achievement among students during their first year of college. Blue Key National Honor Fraternity selects members on the basis of outstanding scholarship, leadership and service. Several other honor organizations specific to area of study are active on campus. The Bess Gentry and C. Robert Kemble Awards recognize the outstanding senior woman and man, respectively, each year. The C.W. Bingman Award recognizes a graduating senior for outstanding achievement and service to Lamar. The Ida Caldwell McFaddin Award recognizes outstanding citizenship, and the Otho Plummer Award is given to the highest-ranking man and woman each commencement. The *Student Handbook* offers additional details.

Student Life

Athletics

Lamar University competes at the NCAA Division 1 level and is currently a member of the Southland Conference. Lamar offers 14 sports, seven each for men and women. The seven women's sports are volleyball, cross country, basketball, indoor and outdoor

track, tennis and golf. Men's sports are cross country, basketball, indoor and outdoor track, baseball, tennis and golf. Lamar students with valid Ids are admitted free to all university athletic events.

Campus Ministries

Several campus ministries provide fellowship, worship and recreational activities for Lamar students and have established student centers adjacent to campus. They include the Baptist Student Union, Church of Christ Bible Chair, Church of Jesus Christ of Latter-Day Saints, Episcopal Center, Catholic Student Center and Wesley Foundation (United Methodist). Some ministries sponsor retreats, special programs and community services.

Cultural Arts

The visual and performing arts thrive on the Lamar University campus. The Dishman Art Museum provides one of the finest collegiate exhibition spaces in the state of Texas with two galleries, a preparation area and lecture hall with video and projection facilities. The Dishman presents local, regional and national touring exhibitions. A variety of public programs, including openings, artist lectures and panel discussions are scheduled throughout the year. Gallery hours are 8 a.m.-5 p.m. Monday through Friday. Admission is free.

Lamar Theatre performs five productions each year, including comedy, drama and musicals as well as children's theatre and student-directed "brown bag" productions. Lamar's recently renovated 500-seat proscenium theatre and flexible-seating "black box" studio theatre host productions.

The Wind Ensemble and Concert Bands, jazz band, Brass Quintet, and other groups represent Lamar at numerous state and national music educator conventions; moreover, these groups may be heard on a regular basis on and off campus throughout the year. Students, faculty and guest performers entertain not only the Lamar community but also music lovers in Southeast Texas during the *Lamarissimo!* Concert Series with five concerts held annually in the historic Julie Rogers Theatre in Beaumont. Basketball fans enjoy the Cardinal Pep Band, which performs at all home games.

The Lamar Dance Company presents several concerts each year and joins the musical ensemble for various presentations.

Eligibility for Extracurricular Activities

An extracurricular activity is understood to be any activity representing the student body, any student organization, any department or division organization or any general activity representing the University. The Student Handbook describes eligibility requirements.

Recreational Sports

All currently enrolled students, faculty and staff with a valid Lamar ID card have access to Lamar recreational sports facilities and may participate in the wide variety of activities that are offered, divided primarily into five areas: intramural sports, sports clubs, fitness, aquatics and informal recreation.

Intramural sports offer opportunities for participation in supervised individual, dual, and/or team competitive sports within the university community. Campus orga-

nizations may place teams in the All-Sports Division, while all others may participate in the Independent Division. There are opportunities to enter in male, female or coed divisions. The stated purpose of the Intramural Program is to promote human understanding, fair play, camaraderie and friendly competition.

Sport clubs are student organizations of individuals who have interests in a specific activity such as soccer, volleyball, racquetball or swimming. Clubs are organized through the department and pursue competition with other universities.

The Recreational Sports Fitness Center is an 11,000-square-foot, state-of-the-art fitness facility with a cardio theater, a full line of progressive pin-select machines and the latest in free weight equipment. Certified fitness trainers are available to consult, evaluate and develop individual fitness programs, which includes kick-boxing, step and water aerobics. The aquatics program offers lap swims, recreational use and structured lesson programs.

Recreational Sports offers the use of facilities for free-time recreation. Published schedules and reservations allow students, faculty or staff members to exercise and enjoy competition with friends in their leisure time. Sports equipment is available for daily and overnight rentals at the equipment room. Facilities include McDonald Gymnasium, fitness center, racquetball courts, tennis complex, Ty Terrell Track, indoor swimming pool, recreational fields and the golf driving range.

Further information on the Recreational Sports Program may be obtained from the Recreational Sports Office, Room 106 of McDonald Gym, (409) 880-2306.

Conduct and Discipline

Student Code of Conduct

A student is subject to disciplinary action for unacceptable behavior, as detailed in the *Student Handbook*. The Vice President for Student Affairs may classify behavior as unacceptable and may refer the case to the proper judicial body for investigation and decision. The student has the privilege of appealing the decision to the Vice President for Student Affairs.

Debts

The University is not responsible for debts contracted by individual students or student organizations and will not act as a collection agency for organizations, firms or individuals to whom students may owe bills.

Students and student organizations are expected to honor contractual obligations promptly, but in case of flagrant disregard of such obligations, the Vice President for Student Affairs or his designated representative will take appropriate action.

Failure to pay all University fees by the specified date will result in suspension through the 12th week in the long semester and the fourth week of each summer term. After the 12th week in the long semester and the fourth week of each summer term failure to pay all fees by the specified date will result in suspension at the end of the current semester and may include: a) denial of readmission, b) withholding of grades and transcripts, c) withholding of degree.

Hazing

Hazing is prohibited in state educational institutions by the Texas Education Code. Students of Lamar University are forbidden to engage in, encourage, aid or assist any person(s) participating in what is commonly known and recognized as hazing. Any

student who does so will be subject to University disciplinary action and might also expect to be dealt with by civil authority. Refer to the *Student Handbook* for more specific definitions and information relative to the legal implications of hazing.

Falsification of Records

A student who provides false information or makes false statements to any University official or office or on an official form submitted to the University is subject to immediate dismissal.

Summons

An official summons takes precedence over other University activities of the student and should be answered promptly on the day and hour designated. Failure to heed an official summons may subject the student to serious disciplinary action.



Twelve departments within the College of Arts and Sciences offer strong exemplary academic degree programs headed by faculty dedicated to providing a contemporary education that translates successfully into a career.

College of Arts and Sciences

Departments: Biology, Chemistry and Physics, English and Modern Languages, Earth and Space Sciences, History, Nursing, Psychology, Political Science, and Sociology, Social Work and Criminal Justice.

Brenda S. Nichols, Dean

**203 Parker Building
Phone 880-8508**

The College has three principal missions:

To provide an excellent learning environment for all undergraduates to develop and refine knowledge and skills essential in cultivating the individual's ability to critically think, communicate, utilize information technology and participate in a global society;

To provide a relevant education for undergraduate and graduate majors in a diverse range of arts and sciences disciplines; and

To develop and refine knowledge and understanding through community outreach, service, research and creative activities.

Organization and Function

The College of Arts and Sciences provides most of the academic components fundamental to a traditional liberal arts college and contains humanities, social sciences, and the natural sciences. The outstanding programs in the humanities include English, history, philosophy and foreign languages with graduate degrees in both English and history. The College's excellent programs in the social sciences include anthropology, political science, sociology, psychology, social work and criminal justice with graduate programs in applied criminology, political science and psychology. The highly regarded natural science program includes nursing plus the traditional sciences of biology, chemistry, geology, and physics with graduate programs in biology, chemistry and nursing.

The College also houses many successful programs which cross several disciplines. Environmental science is one example in addition to the many pre-professional programs. Pre-professional programs prepare students for a professional school to launch careers in fields such as law, medicine, dentistry, pharmacy, physical therapy, occupational therapy, optometry and veterinary medicine. The College has two interdisciplinary degrees designed for adult learners.

Research is a fundamental component of the mission of the College of Arts and Sciences. Faculty members in the College are actively engaged in research related to their respective disciplines. In addition, the College maintains several centers or laboratories that are devoted almost exclusively to research activities. These include the Space Exploration Center, the Center for Public Policy Studies, the Environmental Sciences Laboratory, the Center for Justice Research and Education and the Center for Philosophical Studies.

The Liberal Arts and Sciences

Like other areas of study, the disciplines represented by the Arts and Sciences prepare a student for advanced study and research, for a career in business, industry, government service or teaching or for study in a professional field. In addition, however, the very nature of the Arts and Sciences disciplines not only trains the mind and sharpens the intellect but also provides an experience designed to encourage life-long learning. It is a "liberating" experience which enables one to acquire the skills and knowledge to think critically, examine values and principles, broaden perspectives and to understand the individual and the relationships among the individual, our natural environment and our society. Thus, specialization in one or more of the Arts and Sciences disciplines provides the opportunity for this experience and the prelude to a career.

Degrees Offered

Associate of Science – Nursing

Bachelor of Applied Arts and Sciences

Bachelor of Arts with majors in the following fields:

Chemistry	Political Science
Criminal Justice	Psychology
English	Sociology
French	Spanish
History	

Bachelor of Science with majors in the following fields:

Biology	Medical Technology
Chemistry	Nursing
Criminal Justice	Physics
Earth Science	Political Science
Environmental Science	
Psychology	
Sociology	
Geology	

Bachelor of Social Work

Minors are available in anthropology, biology, chemistry, criminal justice, earth science, English, French, geology, history, philosophy, physics, political science, psychology, social work, sociology, Spanish and writing.

Graduate programs are offered in biology, chemistry, English, history, nursing, psychology, public administration and applied criminology. The Department of Geology and the Sociology Program offer graduate courses in support of other advanced degree programs. Further information may be obtained from the Graduate Catalog or by contacting the appropriate academic department.

Minimum Standards for Undergraduate Majors in the College of Arts and Sciences

A student enrolled as a major in the College of Arts and Sciences must fulfill all University degree requirements, including those for general education, as well as the particular requirements set forth by the department for an area of specialization. In addition, majors in the College must:

1. Complete the Freshman English composition requirement with no less than a grade of "C".
2. Complete all department courses required in their major with at least a grade of "C".

Students are expected to make acceptable progress toward their degree objectives and are expected to work closely and carefully with their academic advisor.

Students majoring in one of the programs in the College of Arts and Sciences who accumulate a grade point deficiency of 25 or more grade points by the beginning of a Fall or Spring semester may be suspended for that semester. Students returning from an academic suspension must reduce their grade point deficiency every semester of enroll-

ment until the deficiency is eliminated. Failure to reduce the deficiency in any one semester may result in a second suspension of two long semesters. A third suspension may result in exclusion as a major in the College of Arts and Sciences.

Students suspended from Fall and/or Spring semesters may attend a Summer session. If the grade point deficiency is less than 25 at the close of the Summer session, the student may enroll for the following Fall semester but may be charged with a suspension.

Upon recommendation of the Department Chair and approval of the Dean of the College, exceptions to the above policy will be considered for:

1. A student who compiles exactly a 2.0 GPA after returning from a suspension.
2. A student in good standing (2.0 or greater GPA) who accumulates a grade point deficiency of 25 or more grade points in one semester.
3. A student in college for the first time at the end of the first semester of attendance.

Bachelor of Applied Arts and Sciences

Academic Director: Boyd Lanier

106 Montagne Center, Phone 880-8534

The Bachelor of Applied Arts and Sciences degree exists to facilitate the completion of a college degree by those individuals already possessing training in a vocational field. Students wishing to improve their vocational and professional competency or to meet educational requirements of the contemporary workplace will find this program useful.

The Bachelor of Applied Arts and Sciences will be granted upon the completion of the General Degree Requirements of the University, including up to 24 hours of experiential credit granted, upon petition by the student and approval by the program director, for learning outside the traditional college setting. Taken together with prior acceptable college work, these hours are added to additional work prescribed to satisfy all the University and the College requirements for graduation. Course selection is subject to the approval of the program director. Because experiential credit is usually very specific and vocationally oriented, it will often constitute the major field of a Bachelor of Applied Arts and Sciences program. Since this is completed early in a student's career, the Bachelor of Applied Arts and Sciences is considered an "inverted degree," completing a student's curriculum with courses ordinarily elected at the start of college study. Thirty hours of course work must have been completed at Lamar University with 24 having been earned after attaining Senior status.

Pre-Professional Programs

The College of Arts and Sciences offers pre-professional programs for students planning careers in law or in one of the primary health care delivery areas — dentistry, medicine, optometry, pharmacy, physical or occupational therapy, physician's assistant, podiatry and veterinary medicine. Other programs associated with the health-related professions (i.e., the allied health sciences) are administered through the Lamar Institute of Technology.

Pre-Law

Advisors: Terri B. Davis

**201D Social and Behavioral Sciences Building,
Phone 880-8533**

Jim Love

55 Maes Building, Phone 880-8538

For admission to law school a student needs a baccalaureate degree, a high grade point average, and a good score on the Law School Aptitude Test (LSAT). According to the Association of American Law Schools, skills appropriate to the legal profession which can be acquired in undergraduate education are these: comprehension and expression in words, critical understanding of human institutions and values with which the law deals, and creative power of thinking. Therefore, a broad education obtainable in a liberal arts program is excellent preparation for admission to law schools.

The pre-law programs are administered by pre-law advisors within the student's major department. Pre-law students should work closely with the appropriate advisor in planning an undergraduate curriculum and in eventually making application to law schools. One aspect of the application process is the Law School Aptitude Test (LSAT) which law schools require to be taken prior to consideration for admission.

Pre-Clinical Programs in Physical Therapy, Occupational Therapy and Physician's Assistant

Advisor: Michael E. Warren

101 Hayes Building, Phone 880-8262

The pre-clinical programs in physical therapy, occupational therapy and physician's assistant are administered by the Department of Biology. The specific programs of study are listed in that department. Further information may be obtained by contacting the advisor.

Pre-Dental, Pre-Medical, Pre-Optometry, Pre-Pharmacy, and Pre-Veterinary Medicine Programs

Advisor: Jim Westgate

203 Parker, Phone 880-7972

The Pre-Professional Advisory Committee for the Health Professions was created as a service to all students preparing for and seeking admission to professional schools of dentistry, medicine, optometry, podiatry, pharmacy and veterinary medicine. The services provided include basic advising and counseling in pre-professional matters, academic advising, information on professional school application procedures and providing composite evaluative information on the student to professional schools. It is extremely important that preprofessional students work closely with the program advisor from the time they initiate their studies at the University.

Admission to health professional schools is highly competitive and, in general, the most competitive applicants will have credentials which significantly exceed the stated minimum admissions requirements. For example, while many dental and medical schools may have stated requirements of three years of college preparation, greater than 95 percent of the students actually accepted will have had four years of college. Thus, since "pre-programs" do not lead to a degree, such students should pursue a degree-granting program. The student is then not only a more competitive professional school applicant but has also prepared for an alternate career should admission to a professional school not be possible. Any degree granting program at the University may be chosen; however, programs within the sciences are generally the most appropriate as their required curricula contain many of the courses also required for professional

school admission. In addition, careful use of elective hours in the curricula will allow for the selection of other appropriate pre-professional courses.

Students considering courses at junior colleges should contact the professional school(s) they plan to attend because many professional schools are reluctant to accept transfer hours from junior colleges.

Standardized examinations are required as a part of the admissions process to professional schools (dentistry—DAT; medicine and podiatry—MCAT; optometry—OAT; veterinary medicine—MCAT or GRE; pharmacy—PCAT). Students should consult with the preprofessional advisor concerning preparation for a particular examination and the appropriate time at which the examination should be taken.

Pre-Medical and Pre-Dental

Suggested Program of Study

First Year	Second Year
Engl Comp6	BIOL8*
BIOL 1406, 1407 General8	CHEM 3411, 3412 Organic8
CHEM 1411, 1412 General8	PHYS 1401, 1402 General8
MATH 2413 or 2376 Calculus I3-4	Degree requirements9
PEGA1	
Degree requirements6	
32-33	33

*Advanced Biology, suggested courses: BIOL 2420, 2476, 3440, 3470, and/or 4410.

Third and Fourth Years

Pre-Medical students should take the appropriate courses to satisfy the requirements for a bachelor's degree in a field of their choice. They should begin application procedures at the end of the third year (See the advisor).

The Dental School at the University of Texas Health Science Center at Houston requires CHEM 4411. CHEM 4411/4412 are both highly recommended by all other medical/dental colleges. Pre-dental students should begin the application procedure at the end of the second year.

Pre-Optometry

Suggested Program of Study

First Year	Second Year
Engl Comp6	BIOL 2420 Microbiology4
BIOL 1406, 14078	BIOL 3440 Adv. Physiol4
CHEM 1411, 14128	CHEM 3411, 3412 Organic8
MATH 2312 Precalculus I3	PHYS 1401, 1402 General8
MATH 2376 or 24133-4	Engl Lit3
PEGA1	
29-30	27

Third and Fourth Years

CHEM 4411 Biochem4
PSYC 2301 Introduction3
PSYC 2471 Statistics4
BIOL 3428 (or 2401+2402) anatomy4-8
remaining courses required for any BS degree

Pre-Veterinary Medicine

Recommended Program of Study

First Year	Second Year
Engl Comp6	BIOL 2420 Microbiology4
BIOL 1406, 1407 General8	BIOL 3470 Genetics4
CHEM 1411, 1412 General8	CHEM 3411, 3412 Organic8
MATH 2376 or 2413 or 13423-4	PHYS 1401, 1402 General8
PEGA1	Engl Lit3
Degree requirements3-6	Degree requirements9
29-33	36

Third Year
CHEM 4411 Biochemistry8
POLS 2301, 23026
ENGL 3310, Tech. Report Writing3
COMM 1315 Public Speaking3
Degree requirements

Pre-Pharmacy

Professional training in pharmacy is offered at four institutions in Texas: Texas Southern University, University of Houston, University of Texas and Texas Tech University. The following courses should meet the requirements of the four schools. It is suggested that the pre-pharmacy students consult with the pre-pharmacy advisors and contact the individual pharmacy schools to which they plan to apply.

Recommended Program of Study

First Year	Second Year
BIOL 1406, 14078	BIOL 2420*4
CHEM 1411, 14128	CHEM 3411, 34128
Engl Comp6	Engl Lit3
MATH 2376 (or 2413), 13426-7	HIST 1301, 13026
PEGA1	Fine Arts (see LU core)#3
29-30	Soc Sci (see LU core)3
	27

Third Year
PHYS 14014
COMM 13153
POLS 2301, 23026
Degree requirements

*Replace with BIOL 3428 for Texas Southern.

#Replace with 6 hours from ARTS 1303, 1304, HIST 2321, 2322 for the University of Houston.

Professional Programs

The Department of Sociology, Social Work, and Criminal Justice offers approved programs to prepare the student for public service in the areas of criminal justice and social work. The student may earn a Bachelor of Science in Criminal Justice or a Bachelor of Social Work degree.

The Department of Nursing offers the Associate of Science and Bachelor of Science in Nursing to prepare professional nurse practitioners. Each recipient of the degree is

eligible to make application to write the state licensing examination given by the State Board of Nurse Examiners to become a registered nurse (RN).

Teacher Certification

The College of Arts and Sciences provides academic disciplines for teacher preparation. Each department identifies the area of concentration available. Students are encouraged to meet with the advisor for teacher certification in the College of Education and Human Development as well as the academic department chair regarding courses required, progression and graduation.

Career Counseling – Liberal Arts

The Departments of English and Foreign Languages, Political Science and Sociology, Social Work and Criminal Justice each have two or more faculty members who specialize in career counseling. One counselor specializes in counseling students who will attend professional graduate schools. Other counselors specialize in counseling for careers in business, industry and social services.

The Career Counselors have developed lists of career support courses, based on current information about the job market. They can suggest patterns of courses, both electives and minors, that are likely to provide advantages for the Liberal Arts graduate in various types of career pursuits. Numerous materials are available to help students prepare themselves for choosing possible career goals and for entering the job market.

Center for Global Studies and Study Abroad

Director: Joanne Lindoerfer

107 Maes Building, 880-2252

203M Social & Behavioral Sciences Building, 880 8283

Lamar University offers a wide diversity of courses that enable students to study in foreign cities through faculty-sponsored programs, consortium or other institutions. Course offerings are from diverse fields of study—including language, anthropology, criminal justice, health care, geology, political science and art.

Lamar University faculty offerings are available for undergraduate or graduate credit or occasionally as a non-credit option. Options to study abroad for a semester or a year are also available.

International short courses have been offered in Paris and Sorbonne, France; Madrid, Spain; Heidelberg, Germany; Florence and Rome, Italy, and Tokyo, Japan.

A student approved fee allows the university to provide some scholarship assistance for students wishing to pursue study abroad opportunities

Certificate in Global Studies

Director: Ken Rivers

(409) 880-8595

The certificate in Global and International Studies will be awarded in conjunction with any departmental major to any B.A. or B.S. student who has demonstrated foreign language proficiency (equivalent to four semesters of one foreign language by examination, higher education course work) and has successfully completed four elective courses with a grade of C (or higher) with substantial international content.

No more than three of the four courses can come from any one discipline, and at least three courses must come from outside the student's major discipline. If three of

the four courses come from the same field outside the student's major, the student would be awarded a "concentration," not a certificate. More information is available by calling the global studies director, (409) 880-8595.

Lamar Language Institute

Co-Directors: Bob Gaškin and Sally Tessler

118 Wimberly, Phone 880-8586

The Lamar Language Institute provides intensive English language training for college-bound foreign students, non-native University students who need part-time developmental study, and non-native English users in the community. The LLI also facilitates cultural adaptation and provides testing and advising services for these students. The directors of Lamar Language Institute, coordinate activities. Ms. Sandy Drane, Director of International Student Services, is responsible for admission of all undergraduate and graduate students at the university, and LLI activities are coordinated through that office. See section on "International Student Admission" in this catalog.

English Courses for Non-Native Students (ESL)

Students for whom English is a second language are required to demonstrate English proficiency by scoring an average of 80 on the objective portions and a minimum of 3.0 on the writing section of the English proficiency/placement test required of entering students as part of the orientation. Those students whose scores fall below the minimum scores required are referred to the Lamar Language Institute for placement in appropriate developmental courses. Registration and fees for these courses are separate from those for degree credit-bearing courses taken in the University. A student placed in developmental courses may not drop the courses.

After the satisfactory level of proficiency is attained, students who must satisfy degree requirements in English may do so by completing the following courses:

Freshman Composition:

ENGL 1301 and 1302

ENGL 2310 or 2320 or 2326 or 2331 or 2376

Cooperative Education Program

A cooperative (Co-op) Education Program in which the student spends alternate terms at work and at study is offered to qualified students in the Department of Chemistry and Physics. This program is coordinated by the Director of Cooperative Education, and students may contact that office or the individual departments for further information.

Department of Biology

Department Chair: Michael E. Warren

101 Hayes Building, Phone 880-8262

Professors: Haiduk, Harrel, Hunt, Warren

Associate Professors: Runnels, Nicoletto

Assistant Professors: Christensen, Flaherty, Kasner, Terry, Yoder

The biology department has three missions. First, the overall mission of the department is to produce graduates with a broad-based knowledge of biology and the capacity of applying their education and critically evaluating emerging scientific knowledge. Second, the biology department provides courses that fulfill the laboratory science requirement for many health science professionals, preprofessional students and education major. Third, the department is committed to providing research opportunities for faculty, undergraduate and graduate students. Research and publication enhance the recognition and prestige of the university and develop contacts and collaborations between Lamar faculty and colleagues elsewhere.

The Biology program is committed to the laboratory approach to science. Students completing the Biology core will have been exposed to all major areas of Biology and are allowed the freedom to concentrate on an area of special interest within the major. Sufficient hours of free electives allow a Biology major to obtain secondary teaching certification simultaneously. Faculty offices are located in the Hayes Biology Building and in the Science Auditorium. The Dujay Sanctuary in the Big Thicket and the Marine Station at Pleasure Island near Port Arthur provide opportunity for field-based study.

Areas of faculty expertise and research interests include Behavior, General Physiology, Developmental Biology, Ecology, Limnology, Cytogenetics, Microbiology, Oceanography, Ornithology, Parasitology, Entomology and Epidemiology as well as Invertebrate, Fish, Reptile and Mammal Biology.

Bachelor of Science – Biology Major

The Major in Biology supports the departmental mission in that students are exposed to current scientific concepts and principles. Moreover, students spend a significant amount of their educational time in the laboratory. By the actual performance of methods and techniques, they can engage in internal research projects. After graduation, they can effectively compete for jobs or move into graduate or professional schools.

As the study of life, Biology requires a thorough understanding of the underlying chemical and physical principles governing all life processes. Lamar students attracted to this field are well equipped to enter the professions of medicine, dentistry or one of the other career paths listed below in this section. Students are equally prepared for environmentally related careers in various governmental agencies or private companies. A career file is maintained in Room 101 of the Hayes Biology Building to acquaint students with far-ranging career possibilities. Students interested in further education leading to an advanced degree in Biology are also well prepared. Those interested in teaching should consult the related section below.

The degree of Bachelor of Science in Biology will be awarded upon the completion of the following requirements:

- A. General Requirements:
See Core Curriculum.

- B. Major:
 Core courses, see list below - 28 semester hours
 Biology electives - 12 semester hours
 BIOL 4160, 4170 Literature - two semester hours
- C. Supporting Sciences:
 General Chemistry - eight semester hours
 Organic Chemistry - eight semester hours
 General Physics - eight semester hours
 Biochemistry or Cell Biology - three or four semester hours
 Statistics - four semester hours
 Computer Science, COSC 1371.
- D. Electives:
 Sufficient electives to complete a total of 128 semester hours.

Suggested Program of Study

First Year	Second Year
Engl Comp6	Engl Lit.....3
BIOL 1406, 1407 General8	CHEM 3411, 3412 Organic8
CHEM 1411, 1412 General8	PHYS 1401, 1402 General8
MATH 2312 Precalculus3	**BIOL selected from core8
PHIL 13703	COMM 1315, Speech.....3
Social Science3	PEGA1
31	31
Third Year	Fourth Year
POLS 2301, 23026	ENGL 3310, Tech Report Writing3
PSYC 2471 Statistics4	BIOL 4160, 4170 Biol Lit.....2
**Biol selected from core12	Biol Electives4
Biol Elective.....8	Electives14
CHEM 4411 or Cell Biol4	American History6
34	Fine Arts3
	32

**The following courses must be included in the Biology Core: BIOL 2420, Microbiology; BIOL 3460, Invertebrate Zoology; BIOL 3450, Botany; BIOL 3428 or 4440, Comparative Anatomy or Vertebrate Natural History; BIOL 3470, Genetics.

Pre-Professional Programs

For details concerning pre-medicine, pre-dental and other pre-professional programs leading to professions in medicine, consult the College of Arts and Sciences section of this bulletin.

Teacher Certification – Biology

A student wishing to certify to teach at the secondary level in Texas public schools must obtain a degree in a major other than Education. Certification to teach Biology can be obtained along with a BS in Biology. Consult with the Biology Department chair for specific information. A list of Biology courses for certification is printed in the Department of Professional Pedagogy section in the College of Education and Human Development portion of this bulletin.

***Bachelor of Science in Psychology**

***Bachelor of Science in Biology**

First Year

BIOL 1406, 1407 General	8
CHEM 1411, 1412 General	8
Engl Comp	6
MATH 2312 Precalculus	3
PSYC 2301 Intro to Psy	3
PSYC 2471 Intro to Stat.....	4
MATH 2376 Calculus	3
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	35

Second Year

CHEM 3411, 3412 Organic	8
BIOL 3428 Comparative Anatomy or 4440 Vert Natural Hist	4
BIOL 2420 Microbiology	4
PSYC 3420 Methods	4
Engl Literature	3
ENGL 3310, Tech Report Writing.....	3
PHIL 1370	3
***Psyc Advanced	3
PEGA	1
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	32

Summer

POLS 2301, 2302	6
Fine Arts	3
Computer Science	3
<hr/>	
	12

Third Year

American History	6
PHYS 1401, 1402 General	8
BIOL 3470 Genetics	4
BIOL 3450 Botany	4
PSYC 4430 Experimental Psy	4
***Psyc Advanced	9
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	35

Fourth Year

BIOL 3460 Invert Zoology	4
BIOL 4160, 4170 Bio Lit	2
**Biol Electives	12
***Psyc Advanced	6
Electives	8
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	32

*Both degrees must be awarded simultaneously. Total: 146 semester hours + PEGA
 **Biology Electives chosen from Biol Core.
 ***Advanced Psychology Electives: Group I (Choose any three): PSYC 3310, 3320, 3330, 3340, 4320; Group II (choose any three): PSYC 3360, 4310, 4360, 4380.

†Bachelor of Science in Biology

†Bachelor of Science in Chemistry

First Year

BIOL 1406, 1407 General	8
CHEM 1411, 1412 General	8
Engl Composition	6
MATH 2376 Calculus I	3
MATH 2377 Calculus II.....	3
PHYS 1401, 1402 General	8
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	36

Second Year

CHEM 3411, 3412 Organic	8
PHYS 3350 Modern	3
Biology Elective (3428 or 4440, Vertebrate)	4
Social Science	3
BIOL 3460, Invertebrate	4
CHEM 3331, Inorganic	3
PHIL 1370, Philosophy of Knowledge	3
CHEM 2401, Quantitative	4
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	32

Summer (between Freshman and Sophomore Year)

Engl Literature	3
BIOL 2420, Microbiology	4
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	7

Summer (between Sophomore and Junior Year)

POLS 2301, American Govt. I.....	3
POLS 2302, American Govt. II	3
<hr/>	
	6

Third Year	Fourth Year
Biol selected from core***8	BIOL 4160, 4170 Bio Lit2
American History6	Biol Electives8
CHEM 4131, 4132 Physical Lab2	CHEM 4411 Biochem4
CHEM 4311, 4312 Physical6	CHEM 4461 Instrumental4
Fine Arts3	Electives4
Biol Elective4	Social Science3
Elective.....4	COMM 1315, Speech.....3
	Chem elective2
	CHEM 4121 Seminar1
	Engl Lit. or ENGL 3310 Tech Report Writ3
	PEGA, (activity)1
33	35

†Both degrees must be awarded simultaneously. Total: 146 semester hours + PEGA
**Chemistry electives to be selected from CHEM 4351, 4341, 4412, 4461.*
****The following courses must be included in the Biology Core: BIOL 2420, Microbiology; BIOL 3460, Invertebrate Zoology; BIOL 3450, Botany; BIOL 3428 or 4440, Comparative Anatomy or Vertebrate Natural History; BIOL 3470, Genetics.*

Biology Minor

Students must take courses to total 20 hours with at least three classes at the 3-4000 level.

Lower level division:

BIOL 1406 General Biology I4
BIOL 1407 General Biology II4
BIOL 2420 Microbiology4
BIOL 3450 Botany4
BIOL 3460 Invert Zoology4
BIOL 3470 Genetics4

Select one from the following:

BIOL 3428 Comparative Vert Anatomy4
BIOL 4440 Vert. Natural History4
BIOL 4401 Ichthyology4
BIOL 4401 Mammalogy4
BIOL 4401 Ornithology4

Bachelor of Science – Environmental Science

Program Director: Richard C. Harrel

205-10 Hayes Building, 880-8255

Environmental Science is an interdisciplinary program concerned with protecting, monitoring and improving the environment. The degree program combines study in biology, chemistry, geology, engineering and political science in preparing the student for a career with regulatory agencies, industry or consulting firms. This degree program combines fundamental training in the basic sciences with broad training across several of the traditional disciplines to prepare students for employment or graduate study. An internship is required to integrate academic preparation with actual work experience.

The degree of Bachelor of Science in Environmental Science will be awarded upon completion of the following requirements:

- A. General Requirements:
See core curriculum, p. 15.
- B. Biology:
BIOL 1406, 1407, 2420, 4300, 4430, 4460
- C. Chemistry:
CHEM 1411, 1412, 3401, 3411, 4481
- D. Science and Mathematics:
PHYS 1401, 1402
COSC 1371
PSYC 2471
MATH 2376
GEOL 1403, 3390, 4370
CVEN 3310
6-9 hrs. approved electives
- E. POLS 4390 or BULW 3330
- F. Participate in internship BIOL 4300-02

First Year	
BIOL 1406, 1407 General	8
CHEM 1411, 1412 General	8
Eng Comp	6
MATH 2376 or 2413 Calculus	3
PHIL 1370	3

28

Third Year	
BIOL 4300	3
CHEM 3401	4
CHEM 4481	4
CVEN 3310	3
GEOL 1403	4
POLS 4390 or BULW 3330	3
ENGL 3310	3
Fine Arts	3
PEGA	1

28

Second Year	
BIOL 2420 Microbiology	4
BIOL 4460	4
CHEM 3411 Organic	4
Eng Lit	3
GEOL 4370	3
COSC 1371	3
PSYC 2471 Statistics	3
POLS 2301, 2302	6
Soc Sci	3

33

Fourth Year	
PHYS 1401,1402	8
BIOL 4430 Limnology	4
GEOL 3390	3
GEOL 4370	3
HIST 1301, 1302	6
Electives, approved*	9-12
BIOL 4300-02 Internship	3

36-39

*Must be approved by Program Director

Bachelor of Science – Medical Technology

Major Advisor: Randall Terry

205-8 Hayes Building, Phone 880-7975

The Major in Medical Technology: The biology department provides the core science courses for medical technology students. In addition, students have the experience during their senior year of learning to apply their knowledge in real-world med-

ical settings. After graduation, they are admirably trained for a career in medicine or research.

The medical technologist performs the laboratory tests required by physicians in order to properly diagnose and treat patients. Most technologists find employment in hospitals, clinics or blood banks. Medical product manufacturers and medical technical sales account for an increasing percent of career opportunities for medical technologists.

- A. General Requirements:
See Core Curriculum.
- B. Multidisciplinary Major:
Biology: 1406, 1407 General, 2420 Microbiology, 3440 Advanced Physiology, 3470 Genetics, 4405 Immunology, 4410 Parasitology
Chemistry: 1411, 1412 General, 3411, 3412 Organic, 4411 Biochem or BIOL 4470 Cell Biology
Physics: 1401, 1412 General
- C. One year internship. (See Fourth Year Clinical Training.)

Suggested Program of Study

First Year	Second Year
Engl Comp6	ENGL 3310 Tech Report Writing3
BIOL 1406, 1407 General8	Engl Lit.....3
CHEM 1411, 1412 General8	BIOL 2420 Microbiology;
COSC 13713	BIOL 3440 Adv Physiology8
MATH 2312 Precalculus3	CHEM 3411, 3412 Organic8
PEGA 1 sem1	PHYS 1401, 1412 General8
PHIL 13703	Social Science3
32	33
Third Year	
BIOL 4410 Parasitology4	
BIOL 4405 Immunology4	
CHEM 4411 or BIOL 44014	
American History6	
BIOL 3470 Genetics4	
PSYC 2471 Statistics4	
POLS 2301, 23026	
COMM 1315, Speech3	
Fine Arts3	
38	

Fourth Year Clinical Training

All the above requirements for the degree must be met before a student may be admitted to clinical training, which is 12 consecutive months at a hospital laboratory accredited for teaching by the Committee on Allied Health Education and Accreditation of the American Medical Association (AMA). A list of clinical affiliate hospital schools is provided below. After satisfactorily completing this training, the student is awarded the degree of Bachelor of Science Medical Technology.

No Lamar financial aid is available during the clinical year since the student pays no tuition.

Directors of Medical Technology Programs

*Denotes Formal Affiliation

Methodist Hospital*
6565 Fannin-Mail Station 205
Houston, TX 77030
(713) 790-2599
Program Director:
Judy Jobe, MT
Medical Director:
Abdus Saleem, M.D.

Christus St. Elizabeth Hospital*
P.O. Box 5405
Beaumont, TX 77726-5405
(409) 899-7150
Program Director:
Deborah Zink, M.B.A., MT
Medical Director:
Terry W. Bell, M.D.

University of Texas Medical Branch
School of Allied Health Sciences
301 University Boulevard
Galveston, TX 77555-1028
(409) 772-3055
Program Director:
Vicki Freeman, Ph.D.
Medical Director:
Alexander Indrikovs, M.D.

M.D. Anderson Cancer Center
1515 Holcombe Boulevard, Box 037
Houston, TX 77030
(713) 745-1688
1-800-551-9503
Program Director:
Karen Rogge-McClure
Medical Director:
Jeffrey J. Tarrand, M.D.

Pre-Physical Therapy†

Major Advisor: M.E. Warren

101 Hayes Building, Phone 880-8262

Physical therapists aid in testing and evaluation of patients, then lead the patient through activities to restore health to various impaired bodily functions of the nervous, muscular, bone and joint systems, restore the range of muscle strength, endurance and improve joint motion. Physical therapists are employed by hospitals, physicians and clinics, or may be self-employed.

First Year

Engl Comp	6
BIOL 1406, 1407 General	8
CHEM 1411, 1412 General	8
MATH 2312 Precalc	3
PSYC 2301 Intro	3
SOCI 1301	3
PSYC 2308 Child	3
	35

Second Year

PHYS 1401, 1402	8
Elective.....	3
COMM 1315, Speech.....	3
BIOL 3428 Comparative Anatomy	4
PSYC 2471 Statistics	4
HIST 1301, 1302	6
BIOL 1102 Med Terminology	1
PSYC 4320 Abnormal Psychology	3
	32

Third Year

BIOL 3440 Advanced Physiology	4
ENGL 3310 Tech Report Writing	3
PSYC 2376 Adult Dev & Aging	3
MGMT 3310	3
COSC 1371	3
BIOL 2401-2402 Anatomy & Physiology	
Recommended	8
POLS 2301, 2302	6
Elective.....	3
	33

*Electives should be chosen from Sociology, Psychology, Advanced Biology, Economics, Spanish, etc.

Texas physical therapy schools are six-year master's degree programs. The student should formulate a contingency plan to obtain a bachelor's degree at Lamar while completing the pre-clinical courses listed above. Periodic contact with the advisor is strongly urged. Because of the highly competitive nature of the program, acceptance is not guaranteed.

Physical therapy schools in Texas:

- University of Texas: Galveston, Dallas, San Antonio, El Paso.
- Texas Woman's University: Denton, Dallas and Houston.
- Baylor: U.S. Army San Antonio.
- Southwest Texas State University: San Marcos.
- Texas Tech. University: Lubbock.
- Hardin-Simmons University: Abilene.

Pre-Occupational Therapy†

Major Advisor: M.E. Warren

101 Hayes Building, Phone 880-8262

Occupational therapists aid patients who are physically injured through accident, illness or through psychological disability. The aim of the therapy is to rehabilitate the patient through application of splints, prostheses or directed occupational pursuits to maximize and extend the patient's fine motor abilities. Occupational therapists are employed by hospitals, schools and retirement homes.

First Year	Second Year
Engl Comp6	Engl Lit3
BIOL 2401, 2402 Anat and Physiol8	COMM 1315, Speech.....3
CHEM 1411 General4	HIST 1301, 13026
PSYC 23013	POLS 2301, 23026
PSYC 2471 Statistics4	SOCI 13013
PSYC 2308 Child3	PSYC 4302 Abnormal Psychology3
PSYC 2376 Adult Dev. & Aging3	BIOL 1406, 1407 General8
BIOL 1102 Medical Terminology1	COSC 1371 Computer Science3
32	35

Plus two or three years of clinical affiliation spent on campuses at Galveston, El Paso, San Antonio, Edinburg or Lubbock. Most programs in Texas are now granting master's degrees and require six years to complete.

Pre-Physician's Assistant†

Major Advisor: M.E. Warren

101 Hayes Building, Phone 880-8262

The physician's assistant is under the supervision and responsibility of a physician, performing duties which extend the ability of the physician to provide adequate health care. Such duties include medical history recording, routine physical exams and other duties the physician may assign.

First Year	Second Year
Engl Comp6	CHEM 1411, 14128
MATH 1314 Algebra3	BIOL 1406, 1407 General8*
BIOL 2401, 2402 Anat and Physiol8	Engl Lit.....3
PSYC 2301 Introduction3	POLS 2301, 23026
PSYC 2308 Child3	COMM 1315 Speech or ENGL 3310 Tech Writ ..3
HIST 1301, 13026	SOCI 13013
FSCS 1322 Nutrition3	BIOL 2420 Microbiology3
BIOL 1102 Medical Terminology1	COSC 1371 (Computer Science)3
33	37

Plus clinical training at Dallas, Galveston, Edinburg, Fort Worth or Houston Medical Centers.

†Note: Lamar University provides only the pre-clinical years for the above three programs, changes in program requirements are under the control of the schools offering the clinical programs. For detailed course requirements, contact the faculty advisor in Hayes 101. Baylor College of Medicine, UTMB Galveston and Southwestern at Dallas have M.S. programs. Applicants should have a B.S. in an appropriate field. It is anticipated that all schools will be M.S. programs within two to three years.

**Dallas requires*

Biology Courses (BIOL)

1101 Supplemental Laboratory	This course allows a transfer student to make up one laboratory deficiency at the introductory level. <i>Departmental approval is required to enroll.</i>	1:1:0
1102 Medical Terminology	An entry-level course which provides basic vocabulary needed to function in the medical environment Course content stresses prefix and suffix usage derived from Greek and Latin as applied to Biology. This course is not a substitute for Biological Literature.	1:1:0
1408 Introductory Biology	A human-centered, non-chemically based course for non-science majors, includes function and problems of the human circulation, respiration, digestion, reproductive, and sensory systems.	4:3:2
1409 Introductory Biology	A companion course to Biology 1470, which is not prerequisite. Includes human heredity and a consideration of the diversity and impact of the plant kingdom on human life and history as food and medicine as well as their aesthetic value.	4:3:2
1406 General Biology	A survey of organisms, molecules, cells, tissues, photosynthesis, and genetics.	4:3:2
1407 General Biology	Plant and vertebrate structure and function, development, reproduction, and ecology. <i>Prerequisite: BIOL 1406.</i>	4:3:2
2401 Human Anatomy and Physiology	Structure and function of cells, tissues, and muscle, skeletal and nervous systems. <i>Prerequisite: Passing scores on all sections of TASP test or be TASP exempt. May not be used as a Biology major course.</i>	4:3:2
2402 Human Anatomy and Physiology	Structure and function of the circulatory, digestive, excretory and reproductive systems. <i>Prerequisite: BIOL 2401. May not be used as a Biology major course.</i>	4:3:2
2420 Microbiology	Micro-organisms with emphasis on those of medical significance and problems of personal and community health. <i>Prerequisite: Credit for BIOL 1406, 1407 or BIOL 2401, 2402.</i>	4:3:2
2476 Medical Microbiology	The pathogenesis, epidemiology, prevention and therapy of major infectious diseases. Laboratory includes diagnostic procedures used in identification. <i>Prerequisite: BIOL 2420</i>	4:2:6
3420 Developmental Biology	Comparative study of meiosis, fertilization, cleavage and early embryology as it relates to human development of vertebrates. <i>Prerequisite: BIOL 1406, 1407.</i>	4:3:3

3428	Comparative Anatomy of the Vertebrates Comparative anatomy presented from systemic viewpoint. (Offered Fall semester) <i>Prerequisite: BIOL 1406, 1407.</i>	4:3:3
3440	Advanced Physiology General physiology; muscle-nerve relations; digestive, circulatory, respiratory, excretory, nervous and endocrine systems. <i>Prerequisite: BIOL 1406, 1407 and CHEM 1411, 1412. (Recommended: CHEM 3411, 3412).</i>	4:3:3
3450	General Botany Introduction to plant structure and function with emphasis on the seed plants. <i>Prerequisite: BIOL 1406, 1407.</i>	4:3:3
3460	Invertebrate Zoology Classification, natural history, phylogenetic relationships and economic importance of the invertebrate phyla. (Offered Fall semester) <i>Prerequisite: BIOL 1406, 1407.</i>	4:3:3
3470	Genetics General principles of heredity, including human inheritance. <i>Prerequisite: BIOL 1406, 1407. (Recommended: Statistics).</i>	4:3:3
4101, 4401	Special Topics in Biology Physiological, anatomical, taxonomic and ecological biology. Laboratory and/or library work and conferences with a faculty member. May be repeated for credit when the area of study differs.	1-4:A:0
4160	Classical Biological Literature A survey of major written works in biology. <i>Prerequisite: Senior standing in biology.</i>	1:1:0
4170	Current Biological Literature A survey of modern biological works published in recent journals. <i>Prerequisite: Senior standing in biology.</i>	1:1:0
4300	Undergraduate Problems Individual investigation of a research problem in biology. Formal report to be approved by faculty members. <i>Prerequisite: Prior approval of faculty member, upperclass standing in biology.</i>	3:0:6
4305	Systematic and Evolutionary Biology A survey of evolutionary mechanisms from molecular to population levels. Consideration of speciation, adaptation and historical geology.	3:3:0
4405	Immunology Organs, tissues, cells, and molecules of the immune response and their interactions. <i>Prerequisite: BIOL 2420</i>	4:3:3
4406	Epidemiology A study of the distribution and determinants of diseases and injuries in human populations. Laboratory utilizes a case history approach. <i>Prerequisite: Microbiology (Recommended: Statistics).</i>	4:3:3
4410	Parasitology A study of the morphology, life history and host-parasite relationships of parasites of man and other animals. (Offered Fall semester) <i>Prerequisite: BIOL 1406, 1407.</i>	4:3:3
4430	Limnology Fauna, flora, ecology and productivity of fresh water. (Offered spring semester) <i>Prerequisite: BIOL 1406, 1407.</i>	4:3:3
4440	Vertebrate Natural History Collection, identification and natural history of area fish, amphibians, reptiles, birds and mammals. (Offered Spring semester) <i>Prerequisite: BIOL 1406, 1407.</i>	4:3:3
4450	Marine Biology Habitats and community relationships of marine plants and animals. (Offered Spring semester) <i>Prerequisite: BIOL 1406, 1407.</i>	4:3:3
4460	Ecology Quantitative approach to both field and experimental studies. Interrelationships of organisms and their environment. (Offered Fall semester) <i>Prerequisite: BIOL 1406, 1407.</i>	4:3:3
4470	Cell Biology Structural and physiological functions of cells at the biochemical and molecular level. Laboratory emphasis on structure and function of mammalian cells and tissues. <i>Prerequisite: CHEM 3411, BIOL 1407 (Recommended: CHEM 4411).</i>	4:3:3

Department of Chemistry and Physics

Department Chair: Richard S. Lumpkin 217 Chemistry Building, Phone 880-8267

Professors: Cocke, Hansen, Melvin, Ortego, Pizzo, Whittle

Associate Professors: Dorris, Irwin, Lumpkin, Shukla

Assistant Professors: B. Bahrim, Bernazzani

Visiting Assistant Professors: C. Bahrim, Bowen, Wang

Lecturers: Hebert, Nguyen, Sessum

Laboratory Coordinator: Williams

Laboratory Manager: Bradberry

The Department of Chemistry and Physics provides an undergraduate program designed to train students as professional chemists, with American Chemical Society certification, and professional physicists qualified to obtain employment in industry, education, or to enter postgraduate programs in professional or academic areas. The department also provides service courses for sciences, engineering, pre-health sciences, pre-professional, education, and non-technical majors. The Master of Science program in Chemistry prepares students for advanced graduate studies or entry into industrial or educational positions.

The departmental mission is to:

1. Ensure quality instruction as a primary focus.
2. Provide a positive learning environment for students.
3. Promote scholarship by mentoring students.
4. Maintain a faculty of teacher scholars.

The Department offers programs leading to B.S. and B.A. degrees in Chemistry and the B.S. degree in Physics. In addition, the department offers preprofessional programs to prepare students for entrance into various professional programs such as medicine, dentistry, veterinary medicine, and pharmacy. The Chemistry and Physics Department has active research programs in several areas including environmental chemistry, surface chemistry, computational chemistry, materials science, polymer chemistry, transition metal coordination chemistry, molecular spectroscopy, organic reaction mechanisms and nuclear physics. Undergraduate students are strongly encouraged to take advantage of the opportunity to participate in one or more of these programs.

Pre-Professional Programs

For details concerning pre-medicine, pre-dental and other pre-professional programs leading to professions in medicine, consult the College of Arts and Sciences section of this bulletin.

Teacher Certification

Students wishing to teach chemistry, physics or integrated chemistry and physics in Texas public schools should consult with the department chair for detailed information.

Minimum Math Requirements for Chemistry Courses

CHEM 1421: None

CHEM 1375, CHEM 1406, CHEM 1408, CHEM 1411, CHEM 1412,

CHEM 1460, CHEM 2411, CHEM 3401, CHEM 3331, CHEM 3411, CHEM 3412,

CHEM 4411, CHEM 4412, CHEM 4481:

Completion of MATH 1314 with a grade of "C" or better. Or two years of high school algebra and one of the following: SAT math score of 500 or higher, ACT math score of 19 or higher, TASP math score of 270 or higher.

CHEM 4131, CHEM 4132, CHEM 4311, CHEM 4312,

CHEM 4341, CHEM 4461:

Completion of MATH 2414 or equivalent with a grade of "C" or better.

Bachelor of Science – Chemistry Major*

The degree of Bachelor of Science in Chemistry will be awarded upon completion of the following requirements.

A. General Requirements:

See core curriculum.

B. Science and Mathematics:

BIOL 1406, 1407 or GEOL 1403, 1404

PHYS 2425, 2426, 3350

MATH 2413, 2414, 2415

C. Chemistry:

CHEM 1411, 1412 General

CHEM 3331, 4341 Inorganic

CHEM 3411, 3412 Organic

CHEM 4411 Biochemistry

CHEM 3401, 4461 Analytical/Instrumental

CHEM 4311, 4312, 4131, 4132 Physical

CHEM 4111 Chemical Literature

CHEM 4121 Senior Seminar

D. Electives:

Nine semester hours Advanced Chemistry electives.

**American Chemical Society approved degree plan. A grade of "C" or better is required in core chemistry courses (CHEM 1411, 1412, 3401, 3331, 3411, 3412, 4311, 4312, 4341, 4411)*

Suggested Program of Study

(Bachelor of Science – Chemistry Major)*

Fall Semester	Spring Semester
First Year	First Year
CHEM 1411 General4	CHEM 1412 General4
PHYS 2425 General4	PHYS 2426 General4
MATH 2413 Calc, An Geo I ^o4	MATH 2414 Calc, An Geo II ^o4
ENGL 1301 Composition.....3	ENGL 1302 or 1374 Composition3
	PHIL 13703
15	18

Fall Semester

Second Year

CHEM 3401 Quantitative	4
CHEM 3411 Organic	4
MATH 2415 Calc, An Geo III ^o	4
Engl Lit	3
	<hr/>
	15

Fall Semester

Third Year

CHEM 4311 Physical ^o	3
CHEM 4131 Physical Lab	1
BIOL 1406 or GEOL 1403 General	4
CHEM 3331 Inorganic	3
HIST 1301 American	3
PEGA/MULB/DANC	1
	<hr/>
	15

Fall Semester

Fourth Year

CHEM 4111 Chemical Lit	1
Fine Arts*	3
CHEM 4411 Biochem I	4
Chem advanced electives **	3-4
POLS 2301 Intro Am Gov I	3
	<hr/>
	14-15

Minimum 121 semester hours + PEGA/MULB/DANC

*ACS approved degree plan; requirements for ACS approval may be changed by ACS. A grade of "C" or better is required in core chemistry courses (CHEM 1411, 1412, 3401, 3331, 3411, 3412, 4311, 4312, 4341, 4411).

** CHEM 4351 is highly recommended.

Courses must satisfy Philosophy of Knowledge core.

* Physics courses MUST be completed prior to enrolling in CHEM 4312.

◇ Math courses MUST be completed prior to enrolling in CHEM 4311.

Spring Semester

Second Year

Communication#	3
CHEM 3412 Organic	4
PHYS 3350 Modern†	3
Engl Lit or Tech Wrt	3
Soc Sci#	3
	<hr/>
	16

Spring Semester

Third Year

CHEM 4312 Physical*	3
CHEM 4132 Physical Lab	1
BIOL 1407 or GEOL 1404 General	4
HIST 1302 American	3
CHEM 4341 Inorganic	3
	<hr/>
	14

Spring Semester

Fourth Year

CHEM 4121 Senior Seminar	1
CHEM 4461 Instrumental	4
Chem advanced electives **	6-8
POLS 2302 Intro Am Gov II	3
	<hr/>
	14-16

Bachelor of Science – Chemistry (Biochemistry Option)*

The degree of Bachelor of Science in Chemistry will be awarded after the completion of the following requirements:

- A. General Requirements:
See core curriculum.
- B. Science and Mathematics:
BIOL 1406, 1407, 2420
PHYS 1401, 1402, 3350
MATH 2413, 2414, 2415
- C. Chemistry:
CHEM 1411, 1412 General
CHEM 3401, 4461 Analytical/Instrumental
CHEM 3331, 4341 Inorganic
CHEM 3411, 3412 Organic
CHEM 4411, 4412 Biochemistry
CHEM 4311, 4312, 4131, 4132 Physical
CHEM 4111 Chemical Literature
CHEM 4121 Seminar
- D. Electives:
4 semester hours of biology electives selected from BIOL 2476, 3440, 3470, 4405
and 6-8 hours of advanced chemistry/biology electives selected from CHEM
4351, 4371, 4471 and/or BIOL 3420, 3470, 4405.

Suggested Program of Study**(Bachelor of Science – Biochemistry Option)***

Fall Semester	Spring Semester
First Year	First year
CHEM 1411 General4	CHEM 1412 General4
BIOL 1406 General4	BIOL 1407 General4
1MATH 2413 Calc, An Geo I [◊]4	MATH 2414 Calc, An Geo II [◊]4
ENGL 1301 Composition.....3	Engl Comp3
15	18
Fall Semester	Spring Semester
Second Year	Second Year
CHEM 3401 Quantitative4	English Lit3
CHEM 3411 Organic4	CHEM 3412 Organic4
PHYS 1401 General4	PHYS 1402 General4
MATH 2415 Calc, An Geo III [◊]4	BIOL 2420 Microbiology4
16	18
Fall Semester	Spring Semester
Third Year	Third Year
CHEM 4311 Physical [◊]3	CHEM 4312 Physical*3
CHEM 4131 Physical Lab1	CHEM 4132 Physical Lab1
PHYS 3350 Modern*3	Engl Lit or Tech Wrt3
Biol elective **4	HIST 1302 American3
CHEM 3331 Inorganic3	Soc Sci *3
PEGA/MULB/DANC1	CHEM 4341 Inorganic3
15	16
Fall Semester	Spring Semester
Fourth Year	Fourth Year
CHEM 4111 Chemical Lit1	CHEM 4121 Senior Seminar1
Fine Arts #3	CHEM 4461 Instrumental4
CHEM 4411 Biochem I4	CHEM 4412 Biochem II4
Chem/Biol electives [^]3	Chem/Biol electives [^]3-4
POLS 2301 Intro Am Gov I3	POLS 2302 Intro Am Gov II3
Communication*3	15-16
17	

Minimum 130 semester hours + PEGA/MULB/DANC.

*ACS approved degree plan; requirements for ACS approval may be changed by ACS. A grade of "C" or better is required in core chemistry courses (CHEM 1411, 1412, 3401, 3331, 3411, 3412, 4311, 4312, 4341, 4411).

**Selected from BIOL 2476, 3440, 3470, 4405.

Courses must satisfy Philosophy of Knowledge core (p. 15).

[^] To be selected from CHEM 4351, 4371, BIOL 3420, 3470, 4405.

* Physics courses MUST be completed prior to enrolling in CHEM 4312.

[◊] Math courses MUST be completed prior to enrolling in CHEM 4311.

Bachelor of Arts – Chemistry Major

The degree of Bachelor of Arts in Chemistry will be awarded after the completion of the following requirements.

A. General Requirements:

See core curriculum, p. 15, and general B.A. requirements, p. 68.

B. Science and Mathematics:

BIOL 1406, 1407 or GEOL 1403, 1404.

PHYS 1401, 1402

MATH 2376, 2377

- C. Chemistry
 CHEM 1411, 1412 General
 CHEM 3401 Analytical
 CHEM 3331 Inorganic
 CHEM 3411, 3412 Organic
 CHEM 4311, 4131, Physical
 CHEM 4111 Chemical Literature
 CHEM 4121 Senior Seminar
- D. Chemistry Electives:
 Four hours of Advanced Chemistry electives.
- E. Electives and Minor
 14 semester hours of electives. Complete degree must include a minor of at least 18 semester hours of which 6 semester hours must be in advanced courses.

Suggested Program of Study

(Bachelor of Arts)

Fall Semester	Spring Semester
First Year	First Year
CHEM 1411 General4	CHEM 1412 General4
PHYS 1401 General4	PHYS 1402 General4
MATH 2376 Calc I ^o3	MATH 2377 Calc II ^o3
Engl Comp3	Engl Comp3
14	17
Fall Semester	Spring Semester
Second Year	Second Year
CHEM 3401 Quantitative4	English Lit3
BIOL 1406 or GEOL 1403 General4	BIOL 1407 or GEOL 1404 General4
POLS 2301 Intro Am Gov I3	POLS 2302 Intro Am Gov II3
Fine Arts *3	PEGA/MULB/DANC1
14	14
Fall Semester	Spring Semester
Third Year	Third Year
CHEM 3411 Organic4	CHEM 3412 Organic4
CHEM 3331 Inorganic3	Engl Lit or Tech Wrt3
For Lang Elem3	HIST 1302 American3
HIST 1301 American3	For Lang Elem3
Minor Elective3	Minor Elective3
16	16
Fall Semester	Spring Semester
Fourth Year	Fourth Year
CHEM 4111 Chemical Lit1	CHEM 4121 Senior Seminar1
CHEM 4311 Physical3	Advanced Elective4**
CHEM 4131 Physical Lab1	For Lang. 2312 Intermediate3
For Lang. 2311 Intermediate3	Minor electives6
Communication*3	14
Minor electives6	
17	

Minimum 122 semester hours + PEGA/MULB/DANC.

*Courses must satisfy Philosophy of Knowledge core (p. 15).

^o Physics courses MUST be completed prior to enrolling in CHEM 4312.

^o Math courses MUST be completed prior to enrolling in CHEM 4311.

**Electives to be chosen from CHEM 4132 and 4312, CHEM 4341, CHEM 4351, CHEM 4401, CHEM 4411, CHEM 4461, CHEM 4271, CHEM 4371, CHEM 4471.

Bachelor of Science in Biology

Bachelor of Science in Chemistry

The degrees of Bachelor of Science in Biology and Bachelor of Science in Chemistry will be awarded upon completion of the following requirements. Both degrees must be awarded simultaneously.

- A. General Requirements:
See core curriculum, p. 15.
- B. Science and Mathematics
MATH 2376, 2377
PHYS 1401, 1402, 3350
- C. Biology:
BIOL 1406, 1407, 2428, 2420, 3450, 3460, 3470, 4160, 4170.
Twelve additional semester hours of biology electives.
- D. Chemistry:
CHEM 1411, 1412, 3401, 3331, 3411, 3412, 4311, 4312, 4121, 4131, 4132, 4411, 4461
Two additional semester hours of advanced chemistry.
- E. Elective:
Eight semester hours general electives

If appropriate additional chemistry courses are completed within or in addition to the 23 hours of electives, the degree will be ACS approved. Consult department chair for details.

Suggested Program of Study

(Bachelor of Science – Biology & Chemistry)

Fall Semester	Spring Semester
First Year	First year
CHEM 1411 General4	CHEM 1412 General4
PHYS 1401 General4	PHYS 1402 General4
MATH 2376 Calc I *3	MATH 2377 Calc II *3
Engl Comp3	Engl Comp3
BIOL 1406 General4	BIOL 1407 General4
<u>18</u>	<u>18</u>
Summer Sessions	
First Year	
BIOL 2420 Microbiology4	
Engl Lit3	
<u>7</u>	
Fall Semester	Spring Semester
Second Year	Second Year
CHEM 3401 Quantitative4	Fine Arts *3
CHEM 3411 Organic4	CHEM 3412 Organic4
BIOL 3428 Anatomy or 4440 Vertebrate4	PHYS 3350 Modern **3
Soc Sci *3	BIOL 3460 Invertebrate4
<u>15</u>	PHIL 1370 Philosophy of Knowledge3
	<u>17</u>

Summer Sessions**Second Year**

POLS 2301 Intro Am Gov I	3
POLS 2302 Intro Am Gov II	3
	<u>6</u>

Fall Semester**Third Year**

CHEM 4311 Physical	3
CHEM 4131 Physical Lab	1
BIOL 3450 Botany	4
Biol elective	4
HIST 1301 American	3
CHEM 3331 Inorganic	3
	<u>18</u>

Fall Semester**Fourth Year**

CHEM 4411 Biochemistry I.....	4
Communication*	3
BIOL 4160 Bio Lit	1
Chem Advanced Elective	2
PEGA/MULB/DANC	1
Biol Elective.....	4
	<u>15</u>

Spring Semester**Third Year**

CHEM 4312 Physical **	3
CHEM 4132 Physical Lab	1
BIOL 3470 Genetics	4
HIST 1302 American	3
Electives	4
	<u>15</u>

Spring Semester**Fourth Year**

CHEM 4121 Senior Seminar	1
BIOL 4170 Bio Lit	1
CHEM 4461 Instrumental	4
Electives	4
Engl Soph Lit	3
Biol elective	4
	<u>17</u>

Minimum 146 semester hours + PEGA/MULB/DANC.

A grade of "C" or better is required in core chemistry courses (CHEM 1411, 1412, 3401, 3331, 3411, 3412, 4311, 4312, 4411)
 *Courses must satisfy Philosophy of Knowledge core (p. 15).
 ** Physics courses MUST be completed prior to enrolling in CHEM 4312.
 # Math courses MUST be completed prior to enrolling in CHEM 4311.

Minor in Chemistry

A chemistry minor consists of CHEM 1411, CHEM 1412, CHEM 3411 and two courses chosen from: CHEM 3331, CHEM 3401, CHEM 3412, CHEM 4411, CHEM 4481, or CHEM 4131 and CHEM 4311. To qualify for the minor a grade of no less than "C" must be obtained in each of the courses applied to the minor.

Physics

Physics is concerned with the basic principles of the universe and is the foundation upon which the other physical sciences—astronomy, chemistry and geology—are based. At the most fundamental level, the study of physics is subdivided into several basic areas of interest, including: mechanics, thermodynamics, electricity, magnetism, optics, quantum effects, elementary particles and relativity.

The study of physics offers a great variety of opportunities. A good foundation in physics can prepare a student for specialization in some area of research, or it can provide an excellent background for entering such varied fields as engineering, computer science, mathematics, communications, meteorology, oceanography, law, medicine and teaching.

The emphasis of the Lamar University physics program is on quality instruction at the undergraduate level. Undergraduate students are strongly encouraged to participate in research activities directed by faculty members.

The program of study in physics is one of the most flexible in the University. It offers many options and electives that make it possible to get a good foundation in physics as well as the necessary background to go into many other fields. The undergraduate degree offered is the Bachelor of Science (B.S.).

Bachelor of Science – Physics Major

This degree plan places a strong emphasis on physics and mathematics. It can be tailored to meet the needs of students preparing for graduate school or employment in a variety of fields. Many students with B.S. degrees in physics from Lamar University have been highly successful graduate students in physics at some of the best universities in the U.S. Others have succeeded as engineers, mathematicians, physicians, medical researchers, lawyers, teachers, etc. Faculty advisors help plan programs to satisfy the needs of individual students.

The degree of Bachelor of Science in Physics will be awarded upon completion of the following requirements:

- A. General Requirements:
See core curriculum, General Education Requirements – Bachelor Degrees, and the Minimum Standards for Undergraduate Majors in the College of Arts and Sciences.
- B. Science and Mathematics:
CHEM 1411, 1412
MATH 2413, 2414, 2415, 3401
- C. Physics Core:
(Most students will take PHYS 1370, Mathematical Methods in Physics, as a preparation for PHYS 2425 and 2426)
PHYS 2425, 2426 Introductory General Physics
PHYS 3430 Analytical Mechanics
PHYS 3350 Waves and Modern Physics
PHYS 3380 Electricity and Magnetism
PHYS 4320 Quantum Mechanics or PHYS 3390 Statistical Physics
- D. Concentration Area
A concentration in either chemistry, engineering or mathematics to include:
 1. Chemistry: CHEM 1411, CHEM 1412, CHEM 3401, and CHEM 4311.
 2. Engineering: ENGR 2301, ENGR 2302, ENGR 2311, and ENGR 2374 (replaces CHEM 1412).
 3. Mathematics: MATH 2318, MATH 2413, MATH 2414, MATH 2415, MATH 3380, and MATH 3401.
- E. Electives:
Additional physics electives to attain at least 32 semester hours of physics
Additional general electives to attain a total of 120 semester hours (not including the required semester of PEGA).

Suggested Program of Study – Bachelor of Science in Physics

First Year	Second Year
PHYS 1370, 24257	PHYS 2426, 33507
MATH 2413, 24148	MATH 2415, 34018
CHEM 1411, 14128	Concentration Courses and/or
ENGL Comp6	Electives8
PHIL 13703	ENGL Lit*6
PEGA1	Fine Art*3
33	32
Third Year	Fourth Year
PHYS 3430, 33807	PHYS 43203
Advanced Phys4	Advanced Phys4
Pol Sci6	History6
Soc Sci*3	Communication*3
Concentration Courses and/or	Concentration Courses and/or
Physics9	Physics12
29	28
Total: 120 plus one hour Physical Activity	

*See a Physics Advisor about allowed options.

Physics as a Second Major

Physics may be selected as a second major for students wishing to broaden their education. The most popular options are to combine Physics with Engineering or Chemistry. Combinations are also available with Computer Science and Mathematics. A student may choose one degree with a double major or two separate degrees. While a second degree usually requires an additional semester of course work, the double major can be accomplished very efficiently. A Physics advisor can give you specific details on your choice of the field combinations.

Minor in Physics

A physics minor consists of (PHYS 1401 and PHYS 1402) or (PHYS 2425 and PHYS 2426), PHYS 3350, and nine additional hours of PHYS 3000/4000 level courses to total 20 credits.

Chemistry Courses (CHEM)

1406	Chemistry for Allied Health Science Survey of elementary inorganic/organic chemistry and gas laws for allied health science majors. <i>Prerequisite: High school chemistry or CHEM 2411 with a grade of "C" or better; MATH 1314.</i>	4:3:2
1408	Biochemistry for Allied Health Science Elementary survey of structure, function and metabolic processes of molecules in organisms. Designed for students majoring in health sciences. <i>Prerequisite: CHEM 1406</i>	4:3:2
1411	General Chemistry Mathematics-based review of chemical laws and theory for science, engineering and preprofessional majors. <i>Prerequisite: High school chemistry or CHEM 1375 with grade of "C" or better; and MATH 1314, or two years of high school algebra and SAT math scores of 500 or better.</i>	4:3:3
1412	General Chemistry A continuation of CHEM 1411. Properties of the elements. Elementary qualitative analysis and theories of solutions and equilibrium. <i>Prerequisite: CHEM 1411.</i>	4:3:3
1421	Chemistry of Color An introduction to chemical structure and reactions using a central theme of color. Emphasis is placed on qualitative aspects of chemistry.	4:3:2

- 1460 Honors General Chemistry** 4:3:3
Subject matter similar to CHEM 1412. Oral presentations and/or research projects are required. Classroom discussions emphasized.
Prerequisite: Membership in Honors Program and permission of department chair.
- 2411 Integrated Science** 4:3:2
An integrated approach to understanding the fundamentals of energy, electromagnetic radiation, atomic structure and chemical bonding. Applications of these principles in living systems, environmental science and technology will be emphasized. This course is part of a four course science sequence designed to provide students a basic understanding of the concepts and methodologies employed throughout the fields of science.
Prerequisites: Six hours of math including MATH 1314 (college algebra).
- 3331 Inorganic** 3:3:0
Generalization involving atomic and nuclear theory; properties of the elements with emphasis on periodicity; non-aqueous solvents, acids, bases, oxidation-reduction, etc.
Prerequisite: CHEM 1412 with grade of "C" or better.
- 3401 Quantitative Analysis** 4:3:4
Theory and practice of analytical chemistry utilizing gravimetric and titrimetric techniques.
Prerequisite: CHEM 1412 with a grade of "C" or better.
- 3411 Organic** 4:3:4
Current theories and chemical principles as they relate to the field of structure and reaction of the various types of organic compounds.
Prerequisite: CHEM 1412.
- 3412 Organic** 4:3:4
A continuation of CHEM 3411.
Prerequisite: CHEM 3411.
- 4111 Chemical Literature** 1:1:0
Lecture and assigned reading in the chemical literature. Chemical literature search on an advanced level.
Prerequisite: 20 semester hours of chemistry.
- 4121 Senior Seminar** 1:1:0
Reports and assigned reading.
Prerequisite: Senior standing in chemistry.
- 4131 Physical Laboratory** 1:0:4
Laboratory applications of modern theory in physical chemistry.
Prerequisite: CHEM 3401, 4311 or parallel.
- 4132 Physical Laboratory** 1:0:4
Continuation of CHEM 4131.
Prerequisite: CHEM 4131, 4312 or parallel.
- 4351 Organic Polymers** 3:3:0
Chemistry of industrial polymerization of compounds, petro-chemistry or organic monomer preparation and chemical characteristics of organic polymers. Industrial field trip(s).
Prerequisite: CHEM 3412, 4311 or 4411 or parallel.
- 4311 Physical** 3:3:0
Modern chemical theory as applied to gases, liquids, solids and solutions.
Prerequisite: CHEM 1412, PHYS 1402 or 2426, MATH 2415 or 2377 or parallel.
- 4312 Physical** 3:3:0
A continuation of CHEM 4311.
Prerequisite: Chm 4311 or equivalent.
- 4341 Inorganic** 3:3:0
The quantized atom, valency and the chemical bond, and coordination chemistry with applications to biological systems.
Prerequisite: CHEM 4311.
- 4411 Biochemistry I** 4:3:4
Structures chemistry and functions of biological compounds. A survey of the detailed structures, chemistry and functions of the various classes of biologically important compounds.
Prerequisite: CHEM 3412, CHEM 3401 recommended.
- 4412 Biochemistry II** 4:3:4
A detailed survey of metabolic pathways and processes.
Prerequisite: CHEM 4411.
- 4461 Instrumental Chemical Analysis** 4:3:4
Instrumental techniques of chemistry. Theory and practice in modern analytical methods.
Prerequisite: CHEM 3401, 3412, 4311, PHYS 3350.

- 4481 Environmental Analysis** 4:3:4
The causes of environmental pollution, how environmental samples are collected and analyzed, and current governmental regulations concerning pollutants.
Prerequisite: CHEM 3401.
- 4271, 4371, 4471 Introduction to Research** 2-4:A:0
Problems are on the undergraduate level and emphasizes research techniques. With approval of the department head, these courses may be repeated for credit.
Prerequisite: Minimum of eight semester hours of chemistry above the freshman level and permission of instructor.
- 4101, 4301, 4401 Special Topics in Chemistry** 1-4:A:0
Topics in under-graduate analytical, inorganic, organic and physical chemistry or biochemistry. Library and/or laboratory work and conferences with a faculty member. With permission of the department head, student may repeat the course for credit when the area of study is different.
Prerequisite: Approval of instructor and department chair.
- ## Physics Courses (PHYS)
- 1370 Mathematical Methods in Physics** 3:3:0
Mathematics applied to physics problems, graphical analysis, vector operations, fields and potentials.
Prerequisite: Registration in or credit for MATH 2413.
- 1311 Descriptive Astronomy** 3:3:0
A survey of facts and an introduction to important astronomical theories. The solar system, stars, nebulae and star systems.
- 1401 General Physics, Mechanics and Heat** 4:3:2
Designed for majors in the physical or natural sciences. Emphasis is placed upon understanding and application of basic physical laws.
Prerequisite: MATH 1316 or high school trigonometry.
- 1402 General Physics, Sound, Light, Electricity and Magnetism** 4:3:2
A continuation of PHYS 1401.
Prerequisite: PHYS 1401.
- 1405 Conceptual Physics** 4:3:2
Designed for non-science/non-engineering majors. The basic interactions in nature, how things move and why, are studied.
- 1407 Conceptual Physics** 4:3:2
Designed for non-science/non-engineering majors. Topics covered are heat, vibrations and waves, sound, light. PHYS 1405 is NOT a pre-requisite for PHYS 1407.
- 2170 Supplemental Laboratory** 1:0:3
Designed to allow a transfer student to make up one laboratory deficiency at the introductory level.
Departmental approval is required to enroll.
- 2411 Integrated Science** 4:3:2
An integrated approach to science and mathematics are presented from the physics perspective. Fundamental issues are addressed such as natural order, energy principles of motion and heat, electricity, light, and current issues in physics.
Prerequisites: six hours of math including MATH 1314 (college algebra).
- 2425 Calculus Based Physics I** 4:3:3
Mechanics, vibrations, heat.
Prerequisite: MATH 2413 and either PHYS 1370 or 600 Math SAT
- 2426 Calculus Based Physics II** 4:3:3
Electricity, magnetism, sound waves, optics.
Prerequisite: PHYS 2425 and MATH 2414.
- 3310 Physics Experiments** 3:1:6
Selected experiments in mechanics, electromagnetics, waves and nuclear physics which reach beyond the scope of introductory laboratories.
Prerequisite: 8 hours of introductory physics including a laboratory component.
- 3350 Waves and Modern Physics** 3:3:0
Conservation laws; special relativity; quantum effects; atomic structure; X-rays, nuclear and solid state physics.
Prerequisite: PHYS 2426 or 1401, 1402 and MATH 2415.
- 3380 Electricity and Magnetism** 3:3:0
Electrostatic fields; potential; capacitance; dielectrics; electromagnetic waves. Maxwell's equations; conduction in gases; thermoelectricity.
Prerequisite: PHYS 3430 and MATH 3401.

- 3390 Statistical Physics** 3:3:0
Temperature and thermometry; internal energy, entropy and thermodynamic potentials; introduction to the kinetic theory of gases and the Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac statistics.
Prerequisite: PHYS 3430, Differential Equations and credit or registration in Modern Physics.
- 3430 Analytical Mechanics** 4:3:3
Use of vector notation in formulating and applying Newton's laws and the principles of momentum and energy. Dynamics of particles and rigid bodies emphasized. Statics treated briefly.
Prerequisite: PHYS 2425-2426 or 1401-1402 and credit for, or registration in, differential equations.
- 3460 Electrical Measurements** 4:2:4
Theoretical and practical definitions of electrical units; data handling and analysis; precision DC measurement of resistance, potential difference and current; galvanometer characteristics; AC bridge measurement of self and mutual inductance, capacitance and frequency; magnetic measurements.
Prerequisite: PHYS 2426 or 1401, 1402 and MATH 2415.
- 4101, 4201, 4301 Special Topics in Physics** 1-3:A:0
Topics in undergraduate mechanics, electromagnetism, energy conversion or particle physics. Library work and conferences with a faculty member. Student may repeat the course for credit when the area of study is different.
- 4210 Research I** 2:0:6
Introduction to Physics Research. Starting a research investigation defining a problem, conducting literature search, assembling resources and initiating a project.
Prerequisite: Modern Physics and (3430 or 3380).
- 4220 Research II** 2:0:6
Introduction to Physics Research. Completing a project started in PHYS 4210. Completing the project and writing a report in publication form.
Prerequisite: PHYS 4210.
- 4320 Introductory Quantum Mechanics** 3:3:0
Basic concepts of quantum mechanics. Schrodinger's equation; wave functions.
Prerequisite: PHYS 3350 and PHYS 3380.
- 4480 Optics** 4:3:3
Physical and Quantum Optics. Propagation of light; interference; diffraction; optics of solids; thermal radiation and light quanta; optical spectra; lasers.
Prerequisite: PHYS 3350 and PHYS 3380.

Department of English and Modern Languages

Department Chair: Sallye J. Sheppard	4 Maes Building, Phone 880-8558
Director of Freshman English: Joseph Nordgren	3 Maes Building, Phone 880-8555
Director of Writing Center: Don Carey	208 Maes Building, Phone 880-8571
Co-Directors of Lamar Language	
Institute: Bob Gaskin, Sally Tessler	220 Setzer Student Center, Phone 880-8586
Coordinator of Global	
Studies Certificate: Kenneth Rivers	25 Maes Building, Phone 880-8595
Coordinator of Secondary	
Certification: Stephenie Yearwood	01 Maes Building, Phone 880-8562
Professors Emeriti: Barnes, Olson	
Professors: Bradley, Daigrepoint, Dodson, Gwynn, Loges, Nordgren, Priest, Rivers, Sanderson, Saur, Sheppard, Strickland*, Yearwood	
Associate Professors: Bridges-Esser, Griffith, Hawkins, Stewart, Yearwood	
Assistant Professors: Matthis, Miller, Santana, Zani	
Instructors: D. Carey, Castillon, Doiron, Garcia, Needham, Santana	
Lecturers: H. Carey, Chen, Haidusek, Heintzelman, Hudler, Johnson, K. Meaux, Smith, Strandberg, Turk, Wright	
*retired, part-time	

The mission of the Department of English, Modern Languages and Philosophy is to provide superior teaching, research and service. The faculty seeks to develop students' literary comprehension, creative and critical thinking, and writing and communicative abilities in a range of diverse intellectual and cultural traditions. The department is committed to fostering sound liberal arts academic experience and to prepare graduates to meet the educational, professional and cultural needs of the region and beyond.

The Department of English and Modern Languages emphasizes excellent teaching in a variety of languages and literatures. The Bachelor of Arts and Master of Arts degrees are available in English. Scholarly interests of members of the department include old and middle English, the Renaissance, Shakespeare, eighteenth century studies, English and American romanticism, the Victorian age, contemporary English and American literature, African American literature, and West Indian literature. In addition to the study of English and American literature through courses organized by genre, period, and individual author, the student may explore the history and structure of language and the crafts of both creative and technical writing. The Bachelor of Arts degree is available in both French and Spanish, enabling the student to acquire competence in conversation and composition in these languages as well as familiarity with their literature and culture. The department also offers courses in German; minors in philosophy, French, Spanish, Writing and English; and an ESL all-level supplementary certificate program.

Majors frequently certify for secondary public school teaching in conjunction with earning the Bachelor of Arts degree in English, French or Spanish. However many others pursue the degree as part of their liberal arts educational goals and go on to careers in business or government service or to graduate study or law school. A degree in a for-

English language is especially valuable for those anticipating foreign service employment in the public or private sector. The English writing concentration as well as modern languages and philosophy can combine with other majors to improve marketability.

The **English** program endeavors to advance the study and appreciation of the English language as a tool for scholarly analysis, criticism, creativity and communication. The program also seeks to help students understand literature as an expression of aesthetic and humanistic values.

Bachelor of Arts – English

The degree of Bachelor of Arts in English combines general requirements, including the Core Curriculum, with its emphasis on ways of knowing, and the more specialized study within the major:

A. General Requirements:

Core Curriculum, 48 hours*

***Note:** English majors **must** take COMM 1315, 1360, 2373, or 3310

***Note:** English majors **must** take either ENGL 2310 British Literature before 1800 or ENGL 2320 British Literature after 1800 as their core curriculum sophomore literature requirement. English majors **may not** take ENGL 2326, 2331, 2371, or 2374 to fulfill their core sophomore literature requirement.

Academic Foundations Requirements, 18 hours, including:

Foreign Language (6 hrs beginning & 6 hrs intermediate)*

* **Note:** All foreign language hours **must be the same language**; foreign language hours **may not be** used to satisfy core curriculum COMM/ Foreign Language option)

ENGL 3326 Advanced Expository Writing

ENGL 4314 Studies in Critical Theory

B. Major: 30 hours beyond the 9-hour core curriculum requirement in English composition and literature, including:

Either ENGL 2310 or 2320 (depending on which used to satisfy core requirement above)

ENGL 3322 American Literature before 1865

ENGL 3324 American Literature after 1865

ENGL 3330 World Literature before 1600

ENGL 3332 World Literature after 1600

One genre course from either ENGL 3316 Poetic Analysis or ENGL 3340 Mythology or ENGL 3360 The Short Story or ENGL 3370 The Drama

Six hours Advanced Literature Elective from 3000- and/or 4000-level courses

Six hours Advanced Literature Elective from 4000-level courses

C. Minor: An approved minor of 18 semester hours, including **nine** semester hours of advanced courses. Marketable minors in areas such as business or computer science are encouraged. Students and advisers should obtain current information from individual departments about their requirements for minors in their fields.

D. **Elective Courses, 15 hours****

**Nine- to twelve-hours of elective courses may be used to secure a Writing Emphasis Certificate in accordance with the policies outlined below.

Writing Emphasis Programs

Students from any academic discipline who wish to better prepare for employment in business, the professions, or government service may be interested in pursuing one of three Writing Emphasis Program options:

***Technical Writing Emphasis.** This program emphasizes mastery of written communication skills, particularly those required in the authoring and editing of reports, proposals, manuals, news releases, and other documents; and provides hands-on experience in producing such documents on microcomputers. Course work in this technical writing program should complement virtually any major. Students completing a nine- to twelve-hour sequence from ENGL 2370 Introduction to Professional Communication, ENGL 3310 Technical Report Writing, ENGL 4355 Editing Technical Communications, ENGL 4360 Documentation Design, and ENGL 4365 Internship, will earn a Technical Writing Emphasis Certificate.

***Creative Writing Emphasis:** Students interested in the craft of creative writing may pursue their interest by completing a nine- to twelve-hour sequence from the following courses: ENGL 3350 Creative Writing: Poetry; ENGL 3350 Creative Writing: Fiction; ENGL 4345 Writing Seminar: Poetry; ENGL 4345 Writing Seminar: Fiction. Students completing this sequence will earn a Creative Writing Emphasis Certificate.

***General Writing Emphasis:** Students wishing to master a variety of writing types may pursue their interest by completing any nine- to twelve-hour combination of courses from ENGL 2370, 3310, 3326, 3350, 4345, 4355, and/or 4365. Students completing this option will earn a General Writing Emphasis Certificate.

***Students qualifying for this certificate should notify the Department of English and Modern Languages in writing at the beginning of their graduation semester.**

The Department of English and Modern Languages is a member of the Associated Writing Programs and is registered in the AWP Official Guide.

Teacher Certification – English

To become certified in Texas, students must complete an undergraduate degree, pass state exams in both a subject area and in pedagogy, and must comply with other state requirements. Students wishing to teach English in Texas must choose **either** the teacher certification program for English Language Arts/Reading Grades 4-8 **or** for English Language Arts/Reading Grades 8-12. The Grades 4-8 certification program is offered **only** in the College of Education and Human Development. The Grades 8-12 certification program is offered **only** in the Department of English and Modern Languages.

Students wishing Grades 8-12 certification should major in English and receive a Bachelor of Arts in English with certification. Along with completion of all university core curriculum requirements, English Language Arts/Reading Grades 8-12 certification students must complete 30 additional hours of English courses (see Specific Course Requirements below), 12 hours in a supporting field, and all work required in professional pedagogy (including student teaching). These students must also comply with

all current departmental/university state exam preparation/remediation policies in order to receive permission to take the English Language Arts/Reading Grades 8-12 state exam.

Course Requirements for English Certification

- A. **General Requirements:** Core curriculum requirements for English Secondary Certification students are the same as for non-certification English majors.
- B. **Certification Course Requirements:**
 All students wishing to certify in English, whether as a first or second teaching field, or through a post-baccalaureate ("deficiency plan") program, must complete the following 27 hours of English course work beyond the 9-hour core curriculum English requirement:
 - ENGL 2310 British Literature before 1800 or 2320 British Literature after 1800
 - ENGL 3320 Children's and Adolescent Literature
 - ENGL 3321 Issues in Language and Literature
 - ENGL 3322 American Literature before 1865
 - ENGL 3324 American Literature after 1865
 - ENGL 3330 World Literature before 1600
 - ENGL 3332 World Literature after 1600 (or 3316 Poetic Analysis, 3340 Mythology, 3360 The Short Story, or 3370 The Drama)
 - ENGL 4310 The Teaching of Writing and Research techniques
 - One 4000-level Advanced Literature Elective
- C. **Specific Pedagogy Courses (27 hours):**
 - PEDG 3310
 - PEDG 3320
 - READ 3326
 - READ 4310
 - PEDG 3380
 - PEDG 4380
 - PEDG 4920

All students (including those majoring in other fields) must be advised in the English department to ensure that they receive up-to-date information about English Language Arts/Reading 8-12 state exam content and test preparation.

Suggested Program of Study: Bachelor of Arts – English

First Year	Second Year
Eng. Comp.6	ENGL 2310, 23206
Beginning Foreign Language6	Intermediate For Lang6
Mathematics6	American Hist6
PHIL 13703	POLS 2301, 23026
Fine Arts3	Lab Science8
COMM3	
Social/Behavioral Sci3	
Physical Activity1	

Third Year	Fourth Year
ENGL 33263	ENGL 43143
ENGL 3322, 33246	Advanced Lit Electives12
ENGL 3330, 33326	Minor9
ENGL 3316, 3340, 3360, or 33703	Electives9
Minor9	
Electives6	
33	33

Minor in English:

A minor in English requires 18 hours **above** the 6-hour core composition requirement, of which a total of 9 hours must be advanced (3000 or 4000) level courses:

- **may** include 3-hour core curriculum sophomore literature requirement
- **may** include 1 additional sophomore literature course
- **must** include 1 advanced (3000- or 4000-level) British literature course
- **must** include 1 advanced (3000- or 4000-level) American literature course
- **must** include 1 advanced (3000- or 4000-level) English elective course

Minor in Writing:

A minor in writing requires 18 hours **above** 6-hour core curriculum composition requirement, of which 9 hours **must** be chosen from the following advanced level creative, technical, or critical writing courses:

- ENGL 3326 Advanced Expository Writing
- ENGL 3350 Creative Writing: Poetry
- ENGL 3350 Creative Writing: Fiction
- ENGL 4345 Writing Seminar: Poetry
- ENGL 4345 Writing Seminar: Fiction
- ENGL 3310 Technical Report Writing
- ENGL 4355 Editing Technical Communications
- ENGL 4361 Documentation Design

Minor in Philosophy:

Students who wish to minor in philosophy must take 18 hours of philosophy, adhering to the guidelines below:

- PHIL 1370 or PHIL 1360 (or approved transfer core curriculum equivalent)
- **must** include at least 9-hours advanced (3000- or 4000- level) courses
- sufficient additional philosophy courses at the 2000, 3000, or 4000 level to complete the 18-hour requirement

ESL All Level Supplementary Certificate Program:

Prospective teachers of English as a Second Language (ESL) may satisfy the course work requirement for ESL all level supplementary certification in the state of Texas by completing 12 hours of prescribed courses: ENGL 4320, 4321, 4322 and 4323 (or ENGL 4312 when taught as Linguistics rather than Grammar). See the list of English courses for titles and descriptions.

The **modern languages** program strives to promote the study of languages, literature and communication, to develop cultural awareness, and to encourage an appreciation of international values.

Bachelor of Arts – French

The degree of Bachelor of Arts in French combines general requirements, including the Core Curriculum with its emphasis on ways of knowing, and the more specialized study within the major:

- A. Core curriculum Requirements, 48 hours*
*Note: French majors **must** take COMM 1315, 1360, 2373, or 3310
- B. Academic Foundation Requirements, 6 hours:
Three additional hours from ENGL 2310, 2320, 2326, 2331, 2371, or 2376
HIST 4310 or HIST 4324
- C. Major, 33 hours:
FREN 1311 and 1312 Beginning French I and II
FREN 2311 and 2312: Intermediate French I and II
FREN 3300: French Conversation
FREN 3370: Advanced Grammar and Composition
FREN 3380: French Phonetics
Twelve hours Advanced French
- D. Minor: 18 hours, including at least nine hours of advanced courses.
- E. Electives: 15 hours

Minor in French

Students who wish to minor in French must take 18 hours **beyond** FREN 1311, including the following:

- FREN 1312 Beginning French II
- FREN 2311 Intermediate French I
- FREN 2312 Intermediate French II
- 9 hours Advanced (3000- or 4000-level) French Electives

Teacher Certification - French

Students wishing to certify with French as the primary teaching field should major in the Department of English and Modern Languages and receive a Bachelor of Arts degree in French.

Those receiving the Bachelor of Arts in French with a certificate-secondary take the same core curriculum and departmental foundations outlined in Bachelor of Arts-French and similar "major" studies, **with the following required courses:**

FREN 3390: French Culture and Civilization

Advanced French: nine hours only

In addition, these students must complete all required courses in professional pedagogy, including student teaching, must comply with all current departmental/university state preparation/remediation policies, and must pass appropriate state examinations.

Suggested Program of Study: Bachelor of Arts – French

First Year		Second Year	
*Beginning French	6	Intermediate French	6
Eng Comp	6	Eng Lit	6
Math	6	POLS 2301, 2302	6
PHIL 1370	3	COMM	3
Fine Arts	3	Social/Behavioral Sci	3
Am Hist	6	Electives	3
Physical Activity	1		
	31		27
Third Year		Fourth Year	
FREN 3300	3	FREN 3380	3
FREN 3370	3	Advanced French	12
Advanced French	3	Minor	9
HIST 4310 or 4324	3	Electives	6
Laboratory Science	8		
Minor	9		
Electives	3		
	32		30

*Must be included if student has not already had the equivalent.

Bachelor of Arts – Spanish

The degree of Bachelor of Arts in Spanish combines general requirements, including the Core Curriculum with its emphasis on ways of knowing, and the more specialized study within the major:

- A. Core Curriculum Requirements, 48 hours*
 - *Note: Spanish majors **must** take COMM 1315, 1360, 2373, or 3310
- B. Academic Foundations Requirements, 15 hours:
 - Three additional hours selected from ENGL 2310, 2320, 2326, 2331, 2371, or 2376
 - SPAN 1313 and 1314
 - SPAN 2311 and 2312
- C. Major, 27 hours advanced Spanish
 - SPAN 3300: Spanish Conversation
 - SPAN 3350: Advanced Grammar and Composition
 - SPAN 3310: Culture and Civilization of Spain
 - SPAN 3320: Culture and Civilization of Spanish America
 - SPAN 3330: Survey of Spanish-American Literature I
 - SPAN 3340: Survey of Spanish-American Literature II
 - SPAN 3380: Survey of Spanish Peninsular Literature I
 - SPAN 3390: Survey of Spanish Peninsular Literature II
 - SPAN 4330: Special Topics: Advanced Conversation
- D. Minor, 18 hours, including at least six hours of advanced courses.
- E. Electives: 18 hours

Teacher Certification – Spanish

Students wishing to certify with Spanish as the primary teaching field should major in the Department of English and Foreign Languages and receive a Bachelor of Arts degree in Spanish.

Those receiving the Bachelor of Arts-Spanish with provisional certificate-secondary take the same core curriculum and academic foundation requirements outlined in Bachelor of Arts-Spanish; and the same major requirements (see above), plus the following required course:

SPAN 4330: Special Topics: Issues in Spanish Language and Literature

In addition, these students must complete all required courses in professional pedagogy, including student teaching, must comply with all current departmental/university ExCET preparation/remediation policies, and must pass appropriate ExCET Examinations.

For requirements for elementary teacher certification with Spanish specialization, consult the College of Education and Human Development.

Suggested Program of Study: Bachelor of Arts – Spanish

First Year	Second Year
*Beginning Spanish.....6	Intermediate Spanish6
English Composition6	English Literature6
Mathematics6	SPAN 3320.....3
PHIL 13703	POLS 2301, 23016
Fine Arts3	COMM3
American History6	Social/Behavioral Science.....3
Physical Activity1	Electives6
Electives3	
34	33
Third Year	Fourth Year
SPAN 3300.....3	SPAN 3310.....3
SPAN 3350.....3	SPAN 3380.....3
SPAN 3330.....3	SPAN 3390.....3
Science.....8	SPAN 3340.....3
Minor.....9	Minor9
Electives.....3	Electives9
29	30

*Must be included if student has not already had the equivalent.

Minor in Spanish

Students who wish to minor in Spanish must take 18 hours **above** SPAN 1313, including the following:

- SPAN 1314 Beginning Spanish II
- SPAN 2311 Intermediate Spanish I
- SPAN 2312 Intermediate Spanish II
- SPAN 3300 Spanish Conversation
- SPAN 3350 Advanced Grammar and Composition
- 3 hours Advanced (3000- or 4000-level) Spanish elective

Developmental Writing (DWRT)

0371 Developmental Writing

The improvement of basic composition skills as required by the state's Success Initiative Plan. The course is a prerequisite to ENGL 1301 for all students who do not pass the writing component of the Texas Higher Education Assessment (THEA) exam; students must enroll in developmental writing until they pass the course with a grade of C or better or pass their retake of the writing component of the THEA exam. The course neither satisfies general degree requirements for freshman English nor counts toward graduation hours. However, a student's final grade in the course is both computed into the student's GPA and recorded on the student's official transcript.

English Courses (ENGL)

- 1301 Composition I** 3:3:0
 Basic forms of expository writing. Frequent themes. Collateral reading in articles and essays of a factual and informative type. This course is prerequisite to ENGL 1302 and 1374.
(NOTE: ENGL 1301 and one other course from ENGL 1302 or 1374 will satisfy the general degree requirement in composition. A student may receive credit for only one such course in a semester.)
- 1302 Composition II** 3:3:0
 Forms of expository and analytical writing. Topics for composition suggested from wide reading in at least two of the three genres: prose fiction, poetry, and drama. Research paper required.
Prerequisite: ENGL 1301.
(NOTE: ENGL 1301 and one other course from ENGL 1302 or 1374 will satisfy the general degree requirement in composition. A student may receive credit for only one such course in a semester.)
- 1374 Composition** 3:3:0
 Forms of expository and analytical writing. Topics for composition suggested from a wide survey of various communications media: films, tapes, radio, television, periodicals, books, etc. Requires attendance at specific instructor-specified events in addition to class attendance. Research paper required.
Prerequisite: ENGL 1301.
(NOTE: ENGL 1301 and one other course from ENGL 1302 or 1374 will satisfy the general degree requirement in composition. A student may receive credit for only one such course in a semester.)
- 1360 Honors Composition and Rhetoric** 3:3:0
 An accelerated program for those exceptionally well prepared at time of enrollment. Extensive writing; introduction to literary genres. Research paper required.
Prerequisite: Admission to ENGL 1360 is earned in one of three ways: a score of 3 on the AP test, a score of 670 or better on the SAT verbal test, or a combined score of 1170 or better on the SAT verbal and the English Achievement tests. See the department chair for further information.
ENGL 1360 is offered in fall semesters only.
- 1361 Honors Composition and Rhetoric II** 3:3:0
 An accelerated study of writing, literature, and research for honors program students.
Prerequisite: ENGL 1360 with grade of C or better.
- 2310 British Literature before 1800** 3:3:0
 The development of British literature from its Anglo-Saxon origins through the Enlightenment. Study of major works representative of various epochs and genres. Study of history of the language.
Prerequisite: ENGL 1301 and either ENGL 1302 or 1374; or 1360 and 1361
- 2320 British Literature after 1800** 3:3:0
 The development of British literature from 1800 to the present. Study of major works representative of various periods and genres. Study of history of the language.
Prerequisite: ENGL 1301 and either ENGL 1302 or 1374; or 1360 and 1361
- 2326 American Literature** 3:3:0
 Six-to-ten major works of American literature, including both the 19th and 20th centuries.
Prerequisite: ENGL 1301 and either ENGL 1302 or 1374; or ENGL 1360 and 1361.
- 2331 World Literature** 3:3:0
 Six-to-ten major monuments of world literature, from classical antiquity to the present century.
Prerequisite: ENGL 1301 and either ENGL 1302 or 1374; or ENGL 1360 and 1361.
- 2360 Honors Sophomore Literature** 3:3:0
 Major works of British and World Literature from classical antiquity to the present century, designed especially for honors students.
Prerequisite: ENGL 1360 and 1361.
- 2370 Introduction to Professional Communication** 3:3:0
 Forms of informative and persuasive communication (including letters, memos, brief reports, presentations, and interviews) commonly employed in the professional world. (CC No. 2311)
Prerequisite: ENGL 1301 and either ENGL 1302 or 1374; or ENGL 1360 and 1361.
- 2371 Masterworks of Asian Literature** 3:3:0
 Six-to-ten major works of Asian literature, including writers from China, Japan and Vietnam.
Prerequisite: ENGL 1301 and either ENGL 1302 or 1374; or ENGL 1360 and 1361.

2376	African-American Literature Significant contributions to American literature from Colonial times to the present. <i>Prerequisite: ENGL 1301 and either ENGL 1302 or 1374; or ENGL 1360 and 1361.</i>	3:3:0
3310	Technical Report Writing Supervised preparation of technical and scientific reports according to standard usage recommended by professional scientific and engineering societies.	3:3:0
3316	Poetic Analysis Forms and techniques and the critical evaluation of poetry.	3:3:0
3320	Children's and Adolescent Literature Literature about or for children and adolescents and the special features and concerns of the genre. May be taken for credit more than once if the topic varies.	3:3:0
3321	Issues in Language and Literature An overview of the discipline of English treating both theoretical and practical questions related to grammar, composition, and literature. Students are encouraged to begin advanced-level work before enrolling in this course.	3:3:0
3322	American Literature Before 1865 The development of American literature from the era of exploration and colonization through the Romantic period. Selection representative of each epoch and various genres and themes of American literature.	3:3:0
3324	American Literature After 1865 The development of American literature from the era of Realism to the present. Selection representative of the various literary movements, genres, and themes of modern American literature.	3:3:0
3326	Advanced Expository Writing Focus on developing skills in literary analysis and critical essays. Attention to MLA documentation, style and grammar.	3:3:0
3330	World Literature Before 1600 Survey of major works of world literature to 1600. Includes works from a variety of western and non-western cultures in a variety of genres.	3:3:0
3332	World Literature After 1600 Survey of major works of world literature since 1600. Includes works from a variety of western and non-western cultures in a variety of genres.	3:3:0
3340	Mythology Mythologies of the ancient Greeks, Romans, and Norse peoples and other cultures.	3:3:0
3350	Creative Writing A workshop approach to the writing of poetry, fiction and drama. May be taken for credit more than once when the genre focus varies.	3:3:0
3360	The Short Story The technique of the short story; its historical development; study and analysis of great short stories.	3:3:0
3370	The Drama The historical development of the drama from Aeschylus to the present. Intensive study of selected plays.	3:3:0
3380	Studies in the British Novel The tradition of the British novel, eighteenth century to the present.	3:3:0
3390	American Novel History, growth and technique of the American novel.	3:3:0
4300	History of the English Language Theory and nature of language. Studies in the growth of English and American forms.	3:3:0
4305	Writing in the Elementary Schools Introduction to principles and practices of writing instruction for elementary (EC-4) teachers including writing process, modes of organization, forms, grammar and assessment.	3:3:0
4310	The Teaching of Writing and Research Techniques An introduction to major theories of composition, to research in the teaching of composition and to pedagogical techniques for teaching writing.	3:3:0
4312	Studies in Language and Linguistics Special problems in linguistics, such as the history of American English, regional dialects, new grammars. May be taken for credit more than once if the topic varies.	3:3:0

4314	Studies in Critical Theory Advanced study of the relationship between form and content in various modes of media, discourse, and criticism. Emphasis on major figures and methodology in contemporary literary theory.	3:3:0
4315	Studies in Women's Literature Poetry, prose, and/or drama by women from classical times to the present. May be taken for credit more than once if the topic varies.	3:3:0
4316	Studies in Victorian Literature Poetry and prose of the Victorian period. May be taken for credit more than once if the topic varies.	3:3:0
4317	Modern Drama Dramatic trends and representative plays from Ibsen to the present.	3:3:0
4318	Modern Poetry Poetic developments in England and America with emphasis on representative poets from Hardy to the present.	3:3:0
4319	Modern Fiction Prose fiction representative of modern ideas and trends, with emphasis on English and Continental authors.	3:3:0
4320	The Teaching of English as a Second Language Techniques for teaching basic English skills and literature to non-native speakers. Socio-cultural aspects of second language learning.	3:3:0
4321	Cultural Foundations of ESL Cultural and historical foundations of ESL teaching, types of programs, advocacy, cultural diversity, teaching diverse learners.	3:3:0
4322	Language Foundations of ESL Principles of second language acquisition, structure of English for ESL learners, patterns of oral and written discourse.	3:3:0
4323	Introduction to Linguistics Background in the nature of language and linguistic changes as a basis for describing and comparing language systems: focuses on a description of the phonological, morphological and syntactic features of English in contrast to features of other languages. <i>(Note: Doctoral students in Speech and Hearing may enroll in ENGL 5320, 5321, 5322 and 5323 for doctoral credit as ENGL 6320, 6321, 6322 and 6323, provided they complete additional requirements appropriate to the doctoral level of study.)</i>	3:3:0
4324	Studies in 16th Century Literature Poetry, prose and drama of the age. May be taken for credit more than once if the topic varies.	3:3:0
4326*	The American Renaissance: 1820-1860 Major authors of period from Poe to Melville.	3:3:0
4327*	The Development of American Realism: 1860-1900 Major authors of the period from Whitman to Norris.	3:3:0
4328	Early American Literature Significant writers from the beginning of Colonial America to 1828.	3:3:0
4329	Modern American Literature Major American writers of the 20th century.	3:3:0
4333	Studies in a Particular Author Major writer such as Chaucer, Milton, Hawthorne, Faulkner. May be taken for credit more than once when the topic varies.	3:3:0
4334	Critical Studies in Literature A particular genre or theme in comparative literature or criticism. May be taken more than once for credit when the topic varies.	3:3:0
4336	Directed Studies Study in American literature in an area of mutual interest. May be taken for credit more than once if topic varies. <i>Prerequisite: Junior standing.</i>	3:3:0
4340	Shakespeare Selected major plays. May be taken for credit more than once if the topic varies.	3:3:0
4345	Writing Seminar Intensive study in writing, focusing on specific topics, with either a technical or creative emphasis. May be taken more than once for credit if the topic varies. <i>Prerequisite: ENGL 3350 or permission of the instructor (for any creative writing seminar).</i>	3:3:0
4351	Survey of 17th Century Literature Poetry, prose and drama of the period 1600-1660. May be taken for credit more than once if the topic varies.	3:3:0

- 4355 Editing Technical Communications** 3:3:0
Editing technical communications for clarity, conciseness, and form. Emphasis on affective communications within and between organizations and organizational levels including reports, proposals, manuals, memoranda, and news releases.
Prerequisite: Either ENGL 2301, 3310, 4326, or 4345 (when technically oriented) or permission of the instructor.
- 4361 Documentation Design** 3:3:0
A technical writing course that focuses on preparing, writing and documenting instructional information.
- 4365 Internship** 3:3:0
Opportunity to work in "real world" work setting in activities related to professional communication and technical writing.
Prerequisites: At least two courses from ENGL 2301, 3310, 4355.
- 4381 Studies in 18th Century Literature** 3:3:0
Poetry, prose and drama of the period 1660-1800. May be taken for credit more than once if the topic varies.
- 4392 Studies in Romantic Literature** 3:3:0
Poetry, prose and drama of the Romantic period. May be taken for credit more than once if the topic varies.

* Pending submission and approval by the Texas Higher Education Coordinating Board

Philosophy Courses (PHIL)

The philosophy program seeks to awaken in students the spirit of critical thinking and to help students understand the philosophical roots of civilization and assume active roles as citizens in our democracy. Philosophy also serves an integrative function at Lamar University because of its centrality to the university's "Ways of Knowing" core curriculum.

- 1370 Philosophy of Knowledge** 3:3:0
A survey of major knowledge systems with an emphasis on the scientific and humanistic methods of inquiry.
- 1360 Honors Philosophy of Knowledge** 3:3:0
Satisfies core curriculum philosophy of knowledge requirement.
- 2303 Logic** 3:3:0
Nature and methods of correct reasoning; deductive and inductive proof; logical fallacies.
Prerequisite: Successful completion of PHIL 1370, 1360, or approved core transfer equivalent.
- 2306 Ethics** 3:3:0
A historical examination of theories and principles of social and personal conduct ranging from Plato and Aristotle to Mill and Nietzsche. Applications to current issues.
Prerequisite: Successful completion of PHIL 1370, 1360, or approved core transfer equivalent.
- 3360 Philosophy of Religion** 3:3:0
Analyzes basic assumptions and practices of the Western religious tradition, including religious experience, mythographies, the problem of evil, proofs for the existence of God, mysticism. May comparatively survey other great religious traditions, including Buddhism, Islam, and Hinduism.
Prerequisite: Successful completion of PHIL 1370, 1360, or approved core transfer equivalent.
- 4320 Philosophy of Science** 3:3:0
A survey and analysis of scientific developments influenced by philosophy; scientific methodologies investigated.
Prerequisite: Successful completion of PHIL 1370, 1360, or approved core transfer equivalent.
- 4330 Philosophy of Art** 3:3:0
Deals with the issue of creativity in the arts and sciences. Survey of major aesthetic theories. Students pursue and present individual projects.
Prerequisite: Successful completion of PHIL 1370, 1360, or approved core transfer equivalent.
- 4340 Special Topics** 3:3:0
Study in specific topic in philosophy. May be taken for credit more than once when topic changes.
Prerequisite: Successful completion of PHIL 1370, 1360, or approved core transfer equivalent.

French Courses (FREN)

- 1311 Beginning French I** 3:3:0
Language course for beginners. Includes grammar, pronunciation, conversation, reading, dictation and written exercises, and language lab practice. (CC No. 2311)
- 1312 Beginning French II** 3:3:0
Continuation of material in FREN 1311. (CC No. 2312)
Prerequisite: FREN 1311 or equivalent determined by examination.

2311	Intermediate French I Review of grammar, reading, composition, conversation, including language lab practice. <i>Prerequisite: FREN 1312 or equivalent.</i>	3:3:0
2312	Intermediate French II <i>Prerequisite: FREN 2311 or equivalent.</i>	3:3:0
3300	French Conversation Improvement in oral fluency through discussion of texts and oral reports. Required of all majors. (This course may not be substituted for FREN 2312 to meet the language requirement for the Bachelor of Arts degree.) May be repeated for credit with approval of department. <i>Prerequisite: FREN 2311 or equivalent.</i>	3:3:0
3350	French Literature Survey I An overview of French literature, authors and literary movements from the Middle Ages through the 18th century. May be repeated for credit when the texts vary. <i>Prerequisite: FREN 2312 or equivalent.</i>	3:3:0
3360	French Literature Survey II An overview of French literature, authors, and literary movements since 1800. May be repeated for credit when the texts vary. <i>Prerequisite: FREN 2312 or equivalent.</i>	3:3:0
3370	Advanced Grammar and Composition French grammar, with extensive written composition. Secondary stress on pronunciation. May be repeated for credit with approval of the department chair. <i>Prerequisite: FREN 2312 or equivalent.</i>	3:3:0
3380	French Phonetics The French sound system. Laboratory exercises to improve pronunciation. May be repeated for credit with approval of the department chair. <i>Prerequisite: FREN 2312 or equivalent.</i>	3:3:0
3390	French Culture and Civilization French civilization with readings and discussion of topics such as French history, politics, education, art, fashion, cuisine, technology, work and leisure. <i>Prerequisite: FREN 2312 or equivalent.</i>	3:3:0
4310	French Theater Selected French plays, usually to include tragedy, comedy and drama of various eras, but may also concentrate on a single playwright, period or special topic. May be repeated for credit when the topic varies. <i>Prerequisite: FREN 2312 or equivalent.</i>	3:3:0
4330	Special Topics Study in a specific topic in French language and/or literature. May be taken more than once for credit when topic varies.	3:3:0
4390	French Novel Major French novels, usually to cover writers and works from various eras, but may also concentrate on a single novelist, period or special topic. May be repeated for credit when the topic varies. <i>Prerequisite: FREN 2312 or equivalent.</i>	3:3:0

German Courses (GERM)

1311	Beginning German I Pronunciation, conversation, reading, dictation, grammar. Use of tapes.	3:3:0
1312	Beginning German II Continuation of material in GERM 1311. <i>Prerequisite: GERM 1311 or equivalent determined by examination.</i>	3:3:0
2311	Intermediate German I Review of grammar, reading, composition and conversation. Use of tapes. <i>Prerequisite: GERM 1312 or equivalent.</i>	3:3:0
2312	Intermediate German II Continuation of material in GERM 2311. <i>Prerequisite: GERM 2311 or equivalent.</i>	3:3:0

Spanish Courses (SPAN)

1313	Beginning Spanish I Pronunciation, conversation, reading, dictation, grammar, including language lab practice. (CC No. 2311)	3:3:0
1314	Beginning Spanish II Continuation of material in SPAN 1313. (CC No. 2312) <i>Prerequisite: SPAN 1313 or equivalent determined by examination.</i>	3:3:0
2311	Intermediate Spanish I Review of grammar, reading, composition, conversation. Language lab practice. <i>Prerequisite: SPAN 1313 or equivalent.</i>	3:3:0
2312	Intermediate Spanish II <i>Prerequisite: SPAN 2311 or equivalent.</i>	3:3:0
3300	Spanish Conversation Required of all majors. <i>Prerequisite: SPAN 2311 or equivalent.</i> <i>(NOTE: This course may not be substituted for SPAN 2312 to meet the language requirements for the Bachelor of Arts degree.)</i>	3:3:0
3310	Culture and Civilization of Spain Geography, history, government, art, economic resources and psychology of Spain. Lectures, readings, oral and written reports. <i>Prerequisite: SPAN 2312 or equivalent.</i>	3:3:0
3320	Culture and Civilization of Spanish America The geography, history, government, art, economic resources and psychology of the Spanish-speaking countries of Latin America. Lectures, readings, oral and written reports. <i>Prerequisite: SPAN 2312 or equivalent.</i>	3:3:0
3330	Survey of Spanish-American Literature I Hispanic America's outstanding writers and their works up to the modernista movement. Lectures, readings, oral and written reports. <i>Prerequisite: SPAN 2312 or equivalent.</i>	3:3:0
3340	Survey of Spanish-American Literature II Hispanic America's outstanding writers and their works from the modernista movement to the present. Lectures, readings, oral and written reports. <i>Prerequisite: SPAN 2312 or equivalent.</i>	3:3:0
3350	Advanced Grammar and Composition Vocabulary building, intensive review of grammar as needed for sentence structure. The development of the paragraph in written composition. Frequent written reports. <i>Prerequisite: SPAN 2312 or equivalent.</i>	3:3:0
3380	Survey of Spanish Peninsular Literature I Spain's outstanding writers and their works up to the generation of 98. Lectures, readings, oral and written reports. <i>Prerequisite: SPAN 2312 or equivalent.</i>	3:3:0
3390	Survey of Spanish Peninsular Literature II Spain's outstanding writers and their works from the generation of 98 up to the present. Lectures, readings, oral and written reports. <i>Prerequisite: SPAN 2312 or equivalent.</i>	3:3:0
4320	The Spanish Novel Selected major writers and works from Spain. Lectures, readings, oral and written reports. May be taken for credit more than once if topic varies.	3:3:0
4330	Special Topics Study in specified topic in Spanish language and/or literature. May be taken more than once for credit when topic varies.	3:3:0
4360	Spanish American Novel Major writers and works from Hispanic America. Lectures, readings, oral and written reports. May be taken for credit more than once if topic varies. <i>Prerequisite: SPAN 2312 or equivalent.</i>	3:3:0
4380	Studies in Spanish and Spanish American Literature Studies in an area of mutual interest to students and instructor. May be taken for credit more than once if topic varies.	3:3:0

Organizations

Organizations such as Circulo Hispano (Spanish Circle), Le Cercle Français (French Circle), and German Union promote interest in other cultures and languages. Both students and community members are involved. Lamar students and faculty hold a Worldfest each spring to publicize the various international groups and activities on the campus. A chapter of Phi Beta Delta Honor Society for international scholars was established at Lamar in 1992.

English Courses for Non-Native Students (ESL)

Students for whom English is a second language are required to demonstrate English proficiency by scoring an average of 80 on the objective portions and a minimum of 3.0 on the writing section of the English proficiency/placement test required of entering students as part of the orientation. Those students whose scores fall below the minimum scores required are referred to the Lamar Language Institute for placement in appropriate developmental courses. Registration and fees for these courses are separate from those for degree credit-bearing courses taken in the University. A student placed in developmental courses may not drop the courses.

After the satisfactory level of proficiency is attained, students who must satisfy degree requirements in English may do so by completing the following courses:

Freshman Composition:

ENGL 1301 and 1302

ENGL 2310 or 2320 or 2326 or 2331 or 2376

Department of Earth and Space Sciences

Department Chair: Jim Jordan

103 Geology Building, Phone 880-8236

Professors: R. Cooper, Jordan, D. Owen, Westgate

Professor Emeritus: Stevens

Lecturer: Pittman

Adjunct Instructors: D. Cooper, C. Owen

Geology Coordinators: R. Cooper, D. Owen

Earth Science Coordinators: Westgate, D. Owen

Space Science Coordinator: Jordan

The mission of the Department of Earth and Space Sciences as a group, and geology as a discipline, is to integrate a broad diversity and range of scientific information regarding the Earth and its spatial environment into a coherent and understandable framework. This integration of Earth and Space-related information is unique among the sciences and makes the department an important part of the College of Arts and Sciences. In addition, the department functions as a major contributor to a student's appreciation of the importance of their physical surroundings and environment to their daily lives.

The Department of Earth and Space Sciences specializes in undergraduate instruction and offers bachelor's degrees in Geology and Earth Science and minors in Geology, Earth Science, and Space Science. Graduates may be employed in industry (petroleum, mining, engineering, hydrogeology, environmental geology and aerospace), by government agencies or may elect to pursue graduate training at another institution. Certification in Earth Science teaching is offered in conjunction with the College of Education and Human Development.

Department faculty have a broad range of research and scholarly interests. These include traditional specializations in geology including stratigraphy, sedimentology, paleontology, petroleum geology, petrology, economic mineral deposits, environmental geology geochemistry and geophysics. In addition faculty have interests and expertise in the geology of the Gulf Coast, geology of the Big Bend region, lunar and planetary science, development of instrumentation for space flight and earth-based laboratories, computer applications to geology (Statistics and GIS) and earth science education.

A background in high school chemistry and physics, two units of algebra and a unit of trigonometry are recommended for prospective majors. Students with inadequate chemistry background must take CHEM 1375 to make up the deficiency. MATH 1314 may also be required of students with inadequate high school mathematics.

Bachelor of Science – Geology

Advisors: Cooper, Owen

The Bachelor of Science in Geology will be awarded upon completion of the following requirements:

- A. General Requirements:
See core curriculum.
- B. Other Science and Mathematics:
PHYS 1401, 1402 or 2413, 2414
CHEM 1411, 1412
MATH 2312, 2413 or 2376, 2414 or 2377
- C. Geology Requirements:
45-46 semester hours.
NOTE: A grade of "C" or better is necessary in a required geology course.
GEOL 1403, 1404
GEOL 2471
GEOL 2377 with lab (GEOL 4101)
GEOL 3450, 3460, 3600
GEOL 4410, 4420
GEOL 4330, 4361, or 4371 with lab (4101)
- D. Electives – 13 semester hours
- E. Minimum Total: 120 semester hours

Suggested Program of Study

First Year	
GEOL 1403, 1404 Phys Hist	8
CHEM 1411, 1412 General	8
MATH 2312 Pre-Calculus	3
MATH 2413 or 2376 Calculus I*	3-4
Eng Comp	6
PHIL 1370	3
PEGA	1
	32-33

Third Year	
MATH 3370 or PSYC 3410	3-4
GEOL 3420 Structural Geo	4
GEOL 3450 Petrology	4
GEOL 4410 Strat. and Sed	4
POLS 2301, 2302	6
ANTH 2346	3
Advanced Electives**	4
	28-29

Third or Fourth Summer	
GEOL 3600 Field Camp	6

Minimum Total; 120 semester hours

**Those planning on graduate study in geology and geophysics should take MATH 2413, 2414 and PHYS 2425, 2426*

***Electives must be at the 3000 or 4000 level*

****For Geology and Earth Science majors a lab (GEOL 4101) is required for GEOL 4371*

Second Year	
GEOL 2471 Mineralogy	4
GEOL 2377 Phys Geog & Geom	3
GEOL 4101 Geomorphology Lab	1
MATH 2414 or 2377 Calculus II*	3-4
PHYS 1401, 1402 or 2425, 2426*	8
Eng Lit	3
COMM 1315	3
HIST 1301, 1302	6
	31-32

Fourth Year	
GEOL 4450 Seminar-Geoscience	4
GEOL 4330, 4361, or 4371***	3-4
GEOL 4420 Paleontology	4
Fine Arts	3
Advanced Electives	9
	23-24

Bachelor of Science – Earth Science

Advisors: Westgate, Owen

The Bachelor of Science in Earth Science will be awarded upon completion of the following requirements:

A. General Requirements:
See core curriculum.

B. Other Sciences and Mathematics
CHEM 2411, 1406
PHYS 1407, 2411
BIOL 1406, 1407
MATH 1314, PSYC 2471

C. Geology Requirements:
Minimum of 35 semester hours.

NOTE: A grade of "C" or better is necessary in a required geology course.

GEOL 1403, 1404
GEOL 2471

- GEOL 2377 with lab (GEOL 4101)
- GEOL 3101, 4101 Lab Instruction
- GEOL 4411, GEOL 4360, GEOL 4370, GEOL 4480, GEOL 4390
- D. Electives – eighteen (18) semester hours
- E. Minimum Total: 121 semester hours

Minor in Geology

Required lower division courses (12 hours):

- GEOL 1403 Physical Geology
- GEOL 1404 Historical Geology
- GEOL 2471 Mineralogy-Petrology

Upper division courses (9 hours):

- GEOL 3410 Statistics and Data Processing
- GEOL 3420 Structural Geology
- GEOL 3450 Petrology
- GEOL 4330 Geophysics
- GEOL 4361 Geochemistry
- GEOL 4371 Economic Resources with Lab (GEOL 4101)
- GEOL 4401 Advanced Physical Geology
- GEOL 4410 Stratigraphy and Sedimentology
- GEOL 4420 Paleontology
- GEOL 4450 Applied Geoscience Seminar
- GEOL 4301 Organized field trip
- GEOL 3600 Field Camp

Minor in Earth Science

Required lower division courses (12 hours):

- GEOL 1403 Physical Geology
- GEOL 1404 Historical Geology
- GEOL 2471 Physical and Optical Mineralogy

Upper division courses (9 hours):

- GEOL 3410 Statistics and Data Processing
- GEOL 2377 Physical Geology & Geomorphology Lab (GEOL 4101)
- GEOL 3390 Environmental Geography and Geology
- GEOL 3420 Structural Geology
- GEOL 3450 Petrology
- GEOL 4301 Dinosaurs
- GEOL 4360 Field Geology in Texas
- GEOL 4370 Meteorology
- GEOL 4371 Economic Resources with Lab (GEOL 4101)
- GEOL 4380 Oceanography with Lab (GEOL 4101)
- GEOL 4410 Stratigraphy and Sedimentology
- GEOL 4420 Paleontology
- GEOL 4450 Applied Geoscience Seminar

Minor in Space Science

Must have taken at least three (12 hours) of the following required lower division courses:

PHYS 1406, 1407 General
 PHYS 2425, 2426 Calculus-based
 PHYS 1411 Astronomy
 SPSC 1401 Space Science

Upper division courses (9 hours):

SPSC 3301 Microgravity
 SPSC 3302 Space Transportation Systems
 SPSC 3303 Orbital & Celestial Mechanics
 SPSC 4302 Space Vacuum Physics
 SPSC 4303 Planetary Materials
 SPSC 4301 Special Topics in Space Science
 GEOL 4330 Geophysics
 GEOL 4361 Geochemistry
 GEOL 4390 Rocks and Stars

Teacher Certification

Students desiring certification to teach secondary school in Texas should complete: PEDG 3310, 3320, 3350, 3351, 4340, 4950, READ 3326, PEDG 3380, 4380, 4950. Students are advised to consult with the Director of Certification in the College of Education and Human Development regarding current requirements for teaching certification.

Suggested Program of Study

First Year	Second Year
GEOL 1403, 1404 Phys & Hist.....8	GEOL 2471 Mineralogy4
MATH 1314 College Algebra3	GEOL 2377 Phys Geog & Geom.....3
CHEM 2411, 14067	GEOL 4101 Geomorphology Lab1
Eng Comp.....6	PHYS 1407, 2411.....8
PSYC 2471 Intro Stat Meth4	COMM 13153
PHIL 13703	HIST 1301, 13026
PEGA1	Engl Lit.....3
32	ANTH 23463
	31
Third Year	Fourth Year
GEOL 3101-3102 Adv Labs2	GEOL 4370 Meteorology3
BIOL 1406, 14078	GEOL 4380 Oceanography3
GEOL 4411 Integ Sci4	GEOL 4390 Rocks & Stars3
POLS 2301, 23026	Fine Arts3
Electives (PEDG 3310, 3320, 3350).....6	Electives (PEDG 3351, 4340, 4950)12-15
26	24-27
Third or Fourth Summer	
GEOL 4360 Field Geo of Texas3	
Minimum Total: 120 semester hours	

Geology Courses (GEOL)

1403	Physical Geology Earth materials, structures, tectonics, land forms, mineral resources and processes that formed them.	4:3:2
1404	Historical Geology History of the development of our planet and its inhabitants. <i>Prerequisite: GEOL 1403</i>	4:3:2
2376	Regional and Economic Geography Regional, national, and continental units considered from the viewpoint of economic resources, resource development, organization, politics, economy, and physical landscape.	3:3:0
2377	Physical Geography and Geomorphology Fundamental concepts of local, regional, and global physical geography and geomorphology, including landform features and soils. Geology and Earth Science majors are required to take an additional laboratory component (GEOL 4101 - Geomorphology Lab) to meet degree requirements. (CC No. 1301) <i>Prerequisite: GEOL 1403 and Sophomore standing</i>	3:3:0
2471	Physical and Optical Mineralogy Classification, properties, occurrence, identification, and optical properties of minerals. Use of polarizing microscope in identification of minerals. <i>Prerequisite: GEOL 1403 and CHEM 1411 or 1405.</i>	4:3:3
3101	Physical Geology Lab Instruction Advanced laboratory techniques in physical geology. May be repeated for credit. <i>Prerequisite: GEOL 1403 and consent of instructor.</i>	1:0:3
3102	Historical Geology Lab Instruction Advanced laboratory techniques in historical geology. May be repeated for credit. <i>Prerequisite: GEOL 1404 and consent of instructor.</i>	1:0:3
3390	Environmental Geography and Geology The relationship between human activities, geologic resources and processes, and environmental quality. Topics include the consumption of geologic resources and its impact on the environment. The relationship between human populations and geologic hazards. Field trip and special fee required. <i>Prerequisite: GEOL 1403 or 2377</i>	3:3:0
3410	Statistics and Data Processing Application of digital computer and statistical techniques to the analysis of earth science data. <i>Prerequisite: COSC 1371.</i>	4:3:3
3411	Integrated Sciences I An integrated approach to understanding the dynamic systems interacting throughout the universe, with special focus on solar system and planetary systems. Emphasis on the lithologic, hydrologic and atmospheric cycles within the context of plate tectonics theory and geologic time. The fossil record, evolution, and global planetary change also will be investigated. Field trip and course fee required. <i>Prerequisites: PHYS 2411 & CHEM 2411.</i>	4:3:3
3420	Structural Geology Rock deformation and geologic structures. Field trip and special fee required. <i>Prerequisite: GEOL 2471.</i>	4:3:3
3450	Petrology Classification, properties, occurrence and origin of rocks. Macro and micro techniques for the identification of rocks. Field trip and special fee required. <i>Prerequisite: GEOL 2471.</i>	4:3:3
3600	Summer Field Course Description of stratigraphic sections, preparation of geologic maps and field reports. Conducted off-campus at various field locations. Special field trip fees required. <i>Prerequisite: GEOL 3420, 3450, 3460, 4420.</i>	6:5:40
4101, 4201, 4301, 4401	Special Topics in Earth Science Topics in earth sciences. May be repeated for credit when area of study is different. <i>Prerequisite: GEOL 1403, 1404 and consent of instructor.</i>	1-4:A:0
4270, 4280	Special Project An individual library, laboratory, or field project. To receive credit, an acceptable report is required. May be repeated for credit. <i>Prerequisite: GEOL 1403, 1404, and 2471 plus consent of instructor.</i>	4:A:0
4330	Geophysics Application of the principles of physics to geologic problems. Use of geophysical techniques in exploration. <i>Prerequisite: PHYS 1402 or 2426, MATH 2414.</i>	3:3:0

- 4360 **Field Geology of Texas** 3:2:20
Geologic history, topography, physiography, structure and mineral deposits of Texas observed on location at classic geologic exposures across Texas and adjacent states. Camping on and hiking across geologic outcrops will be an integral part of this field experience. Field trip and special fee required. May be repeated for credit as field trip locations change.
Prerequisite: GEOL 2471 or permission of instructor.
- 4361 **Geochemistry** 3:3:0
Application of chemistry to the solution of geological problems.
Prerequisite: CHEM 1412, GEOL 2471.
- 4370 **Meteorology** 3:3:0
Composition and processes of the atmosphere. Weather and climate and their effect on human activities. Air pollution and other human induced changes to the atmosphere.
Prerequisite: Eight hours of science.
- 4371 **Economic Resources** 3:3:0
A survey of soil, water, energy, metal, and nonmetal resources of the Earth including their distribution and uses. Geology and Earth Science majors are required to take an additional concurrent laboratory component (GEOL 4101- Economic Resources Lab) to meet degree requirements. Field trip and special fee required.
Prerequisite: GEOL 1404 and permission of instructor.
- 4380 **Oceanography** 3:3:0
Structure, properties and processes of the hydrosphere emphasizing geologic aspects. Role of the seas and oceans in the total environment.
Prerequisite: Eight hours of science.
- 4390 **Rocks & Stars** 3:3:0
A conceptual introduction to space science with emphasis on planetary exploration. Visual programs and guest speakers from NASA and other space research facilities are included. For both non-science and science majors.
Prerequisite: Eight hours of science.
- 4410 **Stratigraphy and Sedimentology** 4:3:3
Fundamental principles of outcrop, subsurface and sequence stratigraphy. Derivation and deposition of sediments, and environmental interpretation of sedimentary strata.
Prerequisite: GEOL 1404 and permission of instructor.
- 4411* **Integrated Sciences II** 4:3:3
This capstone course uses an integrated approach to understanding the systems through which the environment affects humans and conversely, the impact human activities have on the environment. Emphasis on human populations and their impacts on the carbon, nitrogen, hydrologic and atmospheric cycles and how they relate to local and global changes; and natural impacts on human populations through climatic changes and short term meteorologic and geologic events, such as floods, earthquakes, volcanic eruptions and drought. Other topics include energy choices, waste disposal and inappropriate site locations based on environmental settings. Field trip and course fee required. Prerequisites: PHYS 2411, CHEM 2411, BIOL 3411 and GEOL 3411.
- 4420 **Paleontology** 4:3:3
Principles of paleontologic interpretation including classification, morphologic analysis and identification of invertebrate and vertebrate fossils. Application of paleontology to stratigraphic correlation. Field trip and special fee required.
Prerequisite: GEOL 1404 and permission of instructor.
- 4450 **Applied Geoscience Seminar** 4:3:3
Practical and applied computer-based projects and oral presentations on various geological topics.
prerequisite: 20 semester hours of Geology is recommended.

Space Science Courses (SPSC)

- 1401* **Space Science** 4:3:2
An introduction to the sciences behind robotic and human exploration of space with laboratory.
- 3301* **Microgravity** 3:1:4
A study of physical, chemical, and biological phenomena under the conditions of reduced gravity.
Prerequisite: PHYS 1406 or 2425
- 3302* **Space Transportation Systems** 3:3:0
Introduction to space transportation systems and their payloads.
Prerequisite: PHYS 1406 or 2425
- 3303* **Orbital & Celestial Mechanics** 3:3:0
The mechanics of the movement of bodies in space under the influence of gravity.
Prerequisite: PHYS 1406 or 2425

- 4301* Special Topics in Space Science** 3:A:0
An individual library or laboratory project in conference with faculty. With permission of the department chair, student may repeat the course for credit when the area of the study is different.
Prerequisite: Permission of instructor and department chair
- 4302* Space Vacuum Physics** 3:1:4
The physics of vacuum as applied to phenomena in space. Introduction to production and measurement of vacuum in laboratories on Earth.
Prerequisite: PHYS 1407 or 2426
- 4303* Planetary Materials** 3:1:4
A study of the chemistry and mineralogy of extraterrestrial materials including moon samples and meteorites. Introduction to the laboratory techniques used to examine these materials.
Prerequisite: CHM 1411 or GEO 2471

* Pending approval by the Texas Higher Education Coordinating Board

Department of History

Department Chair: John W. Storey

Archer 200, Phone 880-8511

Professors: Anderson, Carroll, Gwin, Storey, Sutton, Wooster

Associate Professors: Thompson

Assistant Professors: Boone, Kelley

Lecturers: Autrey, Reid, Seratt

It is the purpose of the Department of History to impart a knowledge and understanding of the past to the students enrolled in the University. This objective is based upon the belief that such knowledge and understanding improve the quality of life of individuals and contribute to the welfare of our society. The department seeks to accomplish this objective through a program of continued study and research by its members and its students. Research interests of the department focus on both American and European history.

Bachelor of Arts – History Major

The degree of Bachelor of Arts in History will be awarded upon the completion of the following requirements:

A. General Requirements:

See core curriculum, p. 15. In addition, students must complete a foreign language, which substitutes for the communication requirement in the core, 3 semester hours in literature, and 3 semester hours in computer science.

B. Major:

HIST 2321, 2322 - World History — six semester hours.

American History Surveys — six semester hours.

HIST 3390 - Historical Research — three semester hours.

Advanced United States History — six semester hours.

Advanced World (Non-United States) History — six semester hours.

C. Minor:

An approved minor of eighteen semester hours.

D. Electives:

Sufficient approved electives to complete a total of 121 semester hours. Within the 121-semester-hour program there must be a minimum of at least 120 semester hours of courses that may not include physical activity courses, health and wellness courses, and intern program courses.

Minor in History

Students from other disciplines who wish to minor in history must complete 18 semester hours, consisting of 1301 and 1302, either 2321 or 2322, and 9 semester hours of any 3000, 4000 level courses. No grade below a "C" will be counted toward the minor.

Teacher Certification – History

Students wishing to secure the Bachelor of Arts degree in history may at the same time complete the curriculum requirements for a provisional certificate—secondary, with a teaching field in history. For information concerning this program, as well as the new social studies composite, the student should consult advisors in the Department of History.

Suggested Program of Study

First Year	Second Year
Am. History6	Hist 2321, 23226
Engl Comp6	Engl Lit6
Mathematics6	Foreign Language6
Social Science3	Science8
PHIL 13703	Political Science6
Foreign Language6	
PEGA1	
31	32
Third Year	Fourth Year
HIST 33903	Hist (Adv)6
Hist (Adv)6	Minor9
Fine Arts3	Electives13
Minor9	
Electives6	
COSC 13713	
30	28

History Courses (HIST)

1301	American History: History of the United States, 1763 to 1877	3:3:0
	United States history from the revolutionary period through reconstruction.	
1302	American History: History of the United States, 1877 to the Present	3:3:0
	United States history from the post-reconstruction period to the present.	
1361	Honors American History: History of the United States, 1763 to 1877	3:3:0
	United States from the revolutionary period through reconstruction, designed especially for honors students. <i>Prerequisite: Departmental approval.</i>	
1362	Honors American History: History of the United States, 1877 to the Present	3:3:0
	United States history from the post-reconstruction period to the present, designed especially for honors students. <i>Prerequisite: Departmental approval.</i>	
2301	History of Texas	3:3:0
	Texas history from the beginning to the present time.	
2321	History of World Civilization	3:3:0
	World history to 1660.	
2322	History of World Civilization	3:3:0
	World history from 1660 to 1965.	
2377	Military History of the United States	3:3:0
	History of American warfare and the development of American military institutions and practices.	

3390	Historical Research	Principles and methods of historical research.	3:3:0
4300	Era of the Renaissance and Reformation	Western Europe from 1453 to 1610.	3:3:0
4309	The Age of Columbus	Examines forces and developments leading to world exploration.	3:3:0
4310	The Old Regime	Western Europe from 1610 to 1783.	3:3:0
4311	Colonial America		3:3:0
4314	The American Civil War		3:3:0
4315	Reconstruction and Industrialization: The United States from 1865 to 1898		3:3:0
4316	World Power and Reform: The United States from 1898 to 1920		3:3:0
4318	Classical Civilization	Greece and Rome from earliest times to the fall of the Roman Empire in the West.	3:3:0
4319	Medieval Civilization	Western Europe and the Mediterranean area from the late Roman period to 1453.	3:3:0
4320	Religion in the American South	An overview of the growth and development of religion in the South.	3:3:0
4322	American Thought Since Darwin	A survey of American thought since 1859, with emphasis upon the impact of Darwinism.	3:3:0
4323	The Vietnam War	Covers America's involvement in southeast Asia since World War II.	3:3:0
4324	The French Revolution and Napoleon	Western Europe from 1783 to 1815.	3:3:0
4325	Tudor and Stuart England	England from 1485 to 1688.	3:3:0
4326	History of Mexico	An overview of Mexico from the Spanish conquest to the Mexican revolution.	3:3:0
4327	Age of Jackson	America from c.1815 to c.1845 dealing with the impact of Andrew Jackson.	3:3:0
4328	Victorian England	Great Britain from 1815 to 1914.	3:3:0
4330	FDR and the New Deal	America from c. 1929 to c. 1945 covering the Great Depression and New Deal.	3:3:0
4335	Topics in History	Selected special topics in major areas of history: Course may be repeated for a maximum of six semester hours credit when the topic varies.	3:3:0
4341	World War II	A military, political and social history of World War II.	3:3:0
4342	Nazi Germany	A military, political, and social history of Nazi Germany.	3:3:0
4349	19th Century Europe	Political, economic, and social changes and developments in 19 th Century Europe—c.1815 to 1915.	3:3:0
4350	20th Century Europe	Europe since 1914.	3:3:0
4390	Honors Program	A tutorial program for honors seniors. Admission by invitation only.	3:A:0

Department of Nursing

Department Chair: Eileen Deges Curl

233B McFaddin Ward Health Sciences Bldg.
Telephone: 880-8868
Fax: 880-1865

Director of Undergraduate Nursing Studies: Iva Hall

Professors: Curl

Assistant Professors: Boyd, Brannan, Bumpus, Godkin, Hall, H. Moss, P. Moss, Rivers, Roberts, L. Robinson, Skeels, S. Smith, Stinson, Walker, Wallace, Wilsker

Instructors: Chalambaga, Long, McAfee, Morrell, Olliff, Pinchinat, R. Robinson, Sarver, R. Smith, J. Smith

Clinical Instructors: Hunter, Sexton

The Department of Nursing faculty believe in preparing students to become competent graduates who provide quality nursing care to diverse populations in an ever-changing society. Personal, social, and professional strengths of the graduates are developed to form a basis for continued growth.

The goals of nursing are to assist humanity in disease prevention, health promotion, health maintenance and restoration, and the support of death with dignity. Nursing utilizes a spirit of caring, interpersonal communication, critical thinking, and therapeutic interventions to contribute to the health of the individual and society. The responsibility of nurses is to utilize the nursing process to assist people to meet health care needs and to attain health related goals. The faculty believe in the preparation of professional nurses for three major roles: provider of care, coordinator of care, and member of the profession.

Associate Degree graduates are prepared as competent entry-level practitioners to assess the health needs of individuals and families. General education courses provide a foundation for nursing content in associate degree programs. As members of the profession, graduates are able to plan, implement, evaluate and coordinate care for clients in a variety of health care settings. Through education, articulation, and experience, graduates are able to pursue lifelong learning.

Baccalaureate Degree graduates are prepared with a broad perspective and understanding of society, the environment, and people as diverse individuals, families, groups, and communities. Baccalaureate education incorporates a broad range of basic, behavioral, and social sciences, communication and data analysis content to provide a strong foundation for future critical thinking and problem solving. A baccalaureate degree is the most common requirement for entry into graduate nursing education where nurses may further develop their professional roles to become nurse educators, researchers, administrators, or advanced practice nurses.

Students of nursing meet course requirements through didactic courses, laboratory assignments, and clinical experience in health care facilities under supervision of University faculty. Students are expected to adhere to rules and regulations of Lamar University and the various agencies to which they are assigned. Specific policies may be obtained from the Director of Undergraduate Nursing Studies.

Graduates must pass the National Council Licensure Examination for Registered Nurses (NCLEX-RN) in order to receive licensure to practice professional nursing. Graduates will be required to meet criteria established by the Board of Nurse Examiners for the State of Texas in order to take the NCLEX-RN examination.

Lamar University Nursing Programs, associate and baccalaureate degrees, are fully accredited by the Board of Nurse Examiners for the State of Texas and the National League for Nursing Accrediting Commission (NLNAC, 61 Broadway, New York, NY 10006, 1-800-669-1656).

Admission and Progression in Department of Nursing Undergraduate Programs

Students enrolled at Lamar University must submit an Application for Admission to Nursing. Students wishing to change their major to nursing must have a minimum cumulative GPA of 2.0, have met the THEA (formerly TASP) requirement, and be in good standing in the University.

Students not enrolled at Lamar must submit two separate applications: one for admission to Lamar (obtained from the Office of Admissions), and one for admission to the specific nursing program (obtained from the Advising Center, Room 257, McFaddin-Ward Health Sciences Building).

Applications for admission to the Nursing Programs must be received by **March 1** prior to the fall semester admission and **October 1** for spring admission. The following items must accompany the application:

- Application fee
- Official transcript
- Official transcript evaluation by Lamar University
- Written documentation of passing all components of THEA.

Applicants are urged to follow application instructions carefully to ensure processing by the admission committee. Students are responsible for assuring that their applications are complete, including transcript evaluation. Incomplete applications will not be considered. Students applying to both programs must submit separate applications and required fees. Students seeking readmission are also required to submit an application fee. A late fee will be charged for all applications submitted after the application deadline. Late applications will be considered based upon space availability.

Applications for Admission are evaluated on the following basis:

1. Admission to the University (Admissions section of this bulletin.)
2. Transcript evaluation of previous college work. Specified test scores may be required.
3. Evidence of physical and emotional capability of completing the program of instruction and clinical practice. Health examinations are required. Forms are available with application forms.
4. Admission may be limited by available space.
5. See program of choice for additional requirements.

Official transcript evaluation by Lamar University is required for all transfer credits. Transfer credits which are not equivalent to Lamar credits must be evaluated on an individual basis by the appropriate department chair.

For progression in the Program, a minimum grade of "C" must be maintained in English composition, nursing and science courses, and an overall GPA of 2.0 must be maintained in all course work. A student who fails to perform satisfactorily in clinical practice will receive a failing grade in the nursing course regardless of the theory grade.

Under no circumstances may a nursing course be repeated more than once. The student may repeat no more than two different nursing courses. A third failure will constitute program failure.

Due to the required sequencing of the Nursing program courses, students who fail a nursing course will not be allowed to progress to the next semester courses. In addition, they will not be eligible to apply for re-admission to the program until the following year when the appropriate course sequence is offered. Re-admission to the program is not guaranteed and is based upon space availability and assessment of previous grades.

Students requesting readmission or transfer must submit an application for readmission to the Admissions Committee by **October 1** for Spring admission and **March 1** for Summer and Fall admission.

Additional costs above tuition and fees are involved in nursing programs. Uniforms, equipment, instruments, liability insurance, health examinations, special testing fees, course packet fees, additional laboratory fees and transportation to clinical facilities are the student's responsibility. Financial aid is available for eligible students (see Financial Aid and Awards section of this bulletin).

Liability insurance and health examinations must be renewed each year of the Nursing programs. Students may be assigned to clinical experiences during day, evening, night or weekend hours. Clinical agencies may require additional health examinations, dress codes or conformity with other policies. Students will be informed in advance of such requirements.

Eligibility for Graduation

In addition to the University graduation requirements and compliance with the written degree plan, students must pass a nationally standardized examination in order to graduate from the respective program. The courses of the final semester of each program constitute the capstone experience. The Department recommends that all other course requirements are completed prior to entry into the final capstone semester. Further explanation is provided in the *Student Information Guide*.

Bachelor of Science – Nursing

**Director of Undergraduate
Nursing Studies: Iva Hall**

226 McFaddin-Ward Health Sciences Building

Completion of the program leads to a Bachelor of Science in Nursing (BSN) degree. Recipients of the degree are eligible to make application to take the NCLEX-RN exam to become a Registered Nurse (RN).

The baccalaureate program also provides an opportunity for Registered Nurses who wish to pursue a Bachelor of Science Degree in Nursing. This special track is called the RN-BSN Articulation Track. Please refer to separate admission requirements.

To be considered for admission the student must:

1. Have completed all prerequisite (preadmission) courses with a minimum grade of "C"
2. Have an overall grade point average (GPA) of 2.00
3. Have a minimum grade of "C" with an overall grade point average (GPA) of 2.00 in the sciences (Biology and Chemistry courses)
4. Also see Admission to Department of Nursing criteria.

Bachelor of Science – Nursing

Program of Study

*Preadmission Courses – First Year

Fall Semester	Spring Semester
BIOL 2401 Anat & Phys.....4	BIOL 2402 Anat & Phys.....4
MATH 1314 Algebra3	@CHEM 14064
PSYC 2308 Child Psychology3	PSYC 2311 Adult Aging/Dev3
ENGL 1301 Composition.....3	ENGL1 1302 Composition.....3
PHIL 1370 Philosophy.....3	FCSC 1322 Intro to Nutrition3
PEGA1	
17	17
Summer I	
BIOL 2420 Microbiology4	
*Communications3	
7	

Second Year

Fall Semester	Spring Semester
NURS 1671 Provider of Care I6	NURS 1675 Provider of Care II6
NURS 1272 Tech/Psychom Skills I2	NURS 1276 Tech/Psychom Skills II2
NURS 1373 Pathophysiology3	NURS 1378 Pharmacology3
NURS 1274 Professional Practice I.....2	Eng Literature3
PSYC 2471 Intro to Statistical Methods4	POLS 2301 Political Science.....3
17	17
Summer I	
*NURS 2579 Provider of Care III.....5	

Third Year

Fall Semester**	Spring Semester
NURS 3571 Community Focus I.....5	NURS 3475 Coordinator of Care I.....4
NURS 3172 Tech/Psychom Skills III1	NURS 3576 Community Focus II5
NURS 3273 Professional Practice II2	*NURS 3377 Nursing Elective.....3
NURS 3374 Advance Pathophy3	^Fine Arts3
HIST 1301 History.....3	
POLS 2302 Political Science.....3	
17	15
Summer II	
*NURS 3478 Coordinator of Care II4	
HIST 1302 History.....3	
7	

Fourth Year

Fall Semester**	Non-nursing Credits= 66
*NURS 4371 Coordinator of Care III.....3	Nursing Credits= 67
NURS 4472 Provider of Care IV4	Total Credits= 133
NURS 4273 Professional Practice III2	
NURS 4274 Tech/ Psychom Skills IV.....2	
** Elective Non-major3	
14	

* Preadmission courses must be taken prior to admission to the nursing program.

** Restricted to designated social science courses.

^ Courses as specified in Core Curriculum.

+ Students are encouraged to take this course sooner, if possible. Nursing electives are offered during varying semesters.

@ See Chemistry prerequisites.

• Community-based service learning integrated.

•• Capstone courses

Bachelor's Degree Nursing Courses (NURS)

- 1274 Professional Practice I** 2:2:0
Introduction to assuming responsibility and accountability for the quality of nursing care delivered to clients in preparation for becoming an integrated member of the profession of nursing. Discussions of legal, ethical and research issues affecting the health care system.
Prerequisites: Preadmission courses, admission to BSN program or departmental consent.
Corequisites: NURS 1671, 1272, 1373.
- 1272 Tech/Psychomotor Skills I** 2:0:6
Introduction to nursing skills and procedures which provide therapeutic interventions necessary to support the nursing process in the clinical setting. Focuses on development of basic primary care skills necessary for the provider of care role in non-acute settings across the lifespan.
Prerequisites: Preadmission courses, admission to BSN program or departmental consent.
Corequisites: NURS 1671, 1373, 1274
- 1276 Tech/Psychomotor Skills II** 2:0:6
Continues development of skills presented in Technical/Psychomotor Skills I with skill progression necessary to support the nursing process in acute and non-acute care settings. Focuses on development of more complex technical/psychomotor skills needed to carry out the provider of care role with clients across the lifespan in various stages of health.
Prerequisites: NURS 1272, 1373, 1274, 1671 or departmental consent.
Corequisites: NURS 1675, 1378.
- 1373 Basic Pathophysiology** 3:3:0
Study of basic pathophysiology with emphasis on mechanisms of disease processes. Focus is on basic understanding of alterations in health related to selected disease processes across the lifespan.
Prerequisites: Preadmission courses, admission to BSN program or departmental consent.
Corequisites: NURS 1671, 1272, 1274.
- 1378 Pharmacology** 3:3:0
Introduction to pharmacology, principles of therapeutics, and clinical applications with clients across the life span.
Prerequisites: NURS 1671, 1272, 1373, 1274 or departmental consent.
Corequisites: NURS 1675, 1276.
- 1671 Provider of Care I** 6:4:8
Focuses on health promotion and disease prevention in individuals and families across the life span. Concepts introduced include critical thinking, nursing process, adaptation, caring, relationship skills, scientific problem solving skills, basic primary care skills, cultural diversity, and teaching-learning techniques.
Prerequisites: Preadmission courses, admission to BSN program or departmental consent.
Corequisites: NURS 1272, 1373, 1274.
- 1675 Provider of Care II** 6:4:8
Continues to build on and integrate the concepts introduced in Provider of Care I. Major Emphasis is given to application of the systematic use of scientific problem solving skills, evaluation of health care outcomes, and development of relationship skills in caring for clients across the life span with acute and chronic illness.
Prerequisites: NURS 1671, 1272, 1373, 1274 or departmental consent.
Corequisites: NURS 1276, 1378.
- 2579 Provider of Care III** 5:3:4
Continues to build on and integrate the concepts from Provider of Care I and Provider of Care II. Emphasis is given to continued application of the systematic use of scientific problem skills, evaluation of health care outcomes, and development of relationship skills in caring for clients across the life span with acute and chronic illness, including mental illness.
Prerequisites: NURS 1675, 1276, 1378 or departmental consent.
Corequisites: None
- 3172 Tech/Psychomotor Skills III** 1:0:3
Analysis of informatics as it relates to the three major roles of the nurse: provider of care, coordinator of care, and member of the profession. Provides the nurse with technological/psychomotor skills necessary to access and utilize informatics to support clinical and consumer decision making, including research oriented literature searches.
Prerequisites: NURS 1671, 1272, 1276, 1373, 1274 or departmental consent.

- 3273 Professional Practice II** 2:2:0
Builds on the framework of Professional Practice I and II, seeks to integrate concepts and skills necessary to promote accountability for quality nursing practice. Facilitates transition into the professional role through experiences focusing on the determinants and operators of the health care system. Examines issues from broad political, ethical, economic, social, and legal perspectives, including ethics related to clinical research.
Prerequisites: NURS 1675, 1276, 1378 or departmental consent.
Corequisites: NURS 3571, 3172, 3374.
- 3374 Advanced Pathophysiology** 3:3:0
Study of advanced pathophysiology with emphasis on mechanisms of disease processes. Builds upon the life science courses, basic pathophysiology, clinical experiences, and basic understanding of pharmacology as related to alterations in health of selected disease processes.
Prerequisites: NURS 1373, 1675, 1276, 1378 or departmental consent.
Corequisites: NURS 3571, 3172, 3273.
- 3377 Special Topics in Nursing** 3:3:0
Elective introducing topics related to health care. Designed to expand the student's professional role in various health care settings and areas of specialization. Course may be repeated when topic varies.
- 3475 Coordinator of Care I** 4:2:8
Introduction to care management skills for groups of clients and their families throughout the life span in a variety of structured health care delivery systems. Emphasis is placed upon quality outcomes, cost effectiveness, and integrated health care. In addition, experiences include the development, utilization, and management of interdisciplinary teaching, practice, and research. Opportunities are provided to function as entry-level managers.
Prerequisites: NURS 3571, 3172, 3273, 3374 or departmental consent.
Corequisites: NURS 3576.
- 3478 Coordinator of Care II** 4:2:8
Builds upon care management skills obtained in Coordinator of Care I. Expands upon management principles and theories, including complex adaptive systems influencing clients, families, communities, and peers. Utilizes research to analyze health care outcomes in structured and unstructured settings.
Prerequisites: NURS 3475, 3576 or departmental consent.
Corequisites: None
- 3571 Community Focus I** 5:3:8
Emphasizes nursing care of individuals and families utilizing health promotion and disease prevention theory. Focuses on developing the ability to determine health status and health needs. Clinical opportunities will include care for childbearing families and newborn infants, in structured, acute care, and community settings.
Prerequisites: NURS 1675, 1276, 1378 or departmental consent.
Corequisites: NURS 2172, 3273, 3374.
- 3576 Community Focus II** 5:2:12
Focuses on the delivery of nursing care to aggregates, communities, and society (ACS) in unstructured settings. Provides broad understanding of the determinants of health such as the environment, socioeconomic conditions, behavior, and genetics. Includes the ability to work with others in the community to work with others in the community to provide culturally competent nursing care.
Prerequisites: NURS 3571, 3172, 3273, 3374 or departmental consent.
Corequisites: NURS 3475.
- 4273 Professional Practice III** 2:2:0
Continues to build on and integrate the concepts introduced in Professional Practice I, II, and III. Facilitates transition into the professional role by development of professional practice skills to anticipate changes in the health care system. Provides preparation for professional licensure. Prepares graduates capable of responding to changes in health care by redefining and maintaining professional competency.
Prerequisites: NURS 3475, 3576, 3377, Psy 241 or departmental consent.
Corequisites: NURS 4371, 4472, 7274.
- 4274 Tech/Psychomotor Skills IV** 2:0:6
Continuation of Technical/Psychomotor Skills I, II, and III. Introduction to advanced technical/psychomotor skills required to provide therapeutic interventions in acute care settings. Facilitates transition into the professional role by providing final opportunities to practice technical/psychomotor skills for clients across the lifespan who have multi-system dysfunction.
Prerequisites: NURS 3172, 3478 or departmental consent.
Corequisites: NURS 4371, 4472, 4273.

- 4371 Coordinator of Care III** 3:1:16
 Applies the concepts and practices learned in all pre-requisite courses. Utilizes scientific problem solving and research with application in acute care or community settings to assist in the transition from student to practitioner while caring for clients collaboratively with a clinical mentor.
Prerequisites: NURS 3576, 3478 or departmental consent.
Corequisites: NURS 4472, 4273, 4274.
- 4375 Directed Study in Nursing** 3:3:0
 Provides an opportunity for individualized study of selected concepts and/or issues related to professional nursing. The course may be repeated as the content varies.
- 4472 Provider of Care IV** 4:2:8
 Applies the concepts and practices learned in the three pre-requisite Provider of Care courses. Emphasis is given to application of the systemic use of scientific problem solving, evaluation of health care outcomes, and development of relationship skills in caring for critically ill clients across the life span.
Prerequisites: NURS 3475, 3576, 3478 or departmental consent.
Corequisites: NURS 4371, 4273, 4274.

RN – BSN Articulation Track

Coordinator: Sandy Brannan

232 McFaddin-Ward Health Sciences Bldg.
 Phone 880-8822

This track is designed for the career-oriented registered nurse seeking a Bachelor of Science in Nursing degree. The applicant must be a registered nurse. Admission to Lamar University is required as well as admission to the RN-BSN Articulation Track. Transcripts must be evaluated by the Coordinator of the Articulation Track prior to application being made.

No testing of prior nursing knowledge is required; obtain listing of required courses from the Department of Nursing. Some courses are held in escrow until the student has successfully completed upper level nursing courses. Upon completion of the first semester of the nursing curriculum the student will be granted escrow credit through "Credit by Validation". Escrow hours will not exceed 32 hours of credit. Students in this track complete all program requirements for BSN. Applications for this track are due by **October 1** for admission to spring nursing courses.

Associate of Applied Science – Nursing

Director of Undergraduate Nursing Studies: Iva Hall

226 McFaddin-Ward
 Health Sciences Building

Completion of the program leads to an Associate of Applied Science Degree in Nursing. Recipients of the degree are eligible to make application to take the NCLEX-RN exam to become a Registered Nurse (RN). The associate degree program complies with the SCANS guidelines.

The Associate Degree Program also provides an opportunity for Licensed Vocational Nurses who wish to pursue an Associate of Science in Nursing. This special tract is called the LVN-ADN Articulation Curriculum. Please refer to separate admission requirements.

To be considered for admission, the student must:

1. Have completed all preadmission courses with a minimum grade of "C"
2. Have an overall grade point average (GPA) of 2.00
3. Have a minimum grade of "C" with an overall grade point average (GPA) of 2.00
4. See also Admission to Department of Nursing Program criteria.

Associate of Science in Nursing

Suggested Program of Study

Preadmission Courses

BIOL 2401 Anat & Phys	4
BIOL 2402 Anat & Phys	4
BIOL 2420 Microbiology	4
ENGL 1301 Composition	3
MATH 1314 or TM options	3

18

First Year

Fall Semester

RNSG 1413 Foundation for N Prac.....	4
RNSG 1160 Clinical: Foundations	1
RNSG 1215 Health Assessment	2
RNSG 1105 Nursing Skills I	1
RNSG 1311 Pathophysiology	3
PSYC 2311 Adult Dev. & Aging	3

14

Summer I

Elective.....	3
PSYC 2308 Child Psychology	3

6

Spring Semester

RNSG 1341 Common Concepts of Adult Hlth	3
RNSG 1161 Clinical: Common Concepts Adult Hlth	1
RNSG 1144 Nursing Skills II.....	1
RNSG 1343 Complex Concepts of Adult Hlth	3
RNSG 1162 Clinical: Complex Concepts of Adult Hlth	1
RNSG 1301 Pharmacology	3

12

Second Year

Fall Semester

RNSG 2201 Care of Children & Families	2
RNSG 2160 Clinical: Children & Fam	1
RNSG 2208 Mater./Newborn Women Hlth	2
RNSG 2161 Clinical Mat/Newbrn Women.....	1
RNSG 2213 Mental Health. Nursing	2
RNSG 2162 Clinical: Mental Health	1
†Humanities/Fine Art	3

12

Spring Semester ••

RNSG 2221 Management of Client Care	2
RNSG 2260 Clinical: Mgmt of Client Care	2
RNSG 2231 Advanced Concepts Adult Hlth	2
RNSG 1207 Nsg Jurisprudence	2
RNSG 2263 Clinical: Capstone	2

10

Non-Nursing hours30

Nursing hours42

Total 72

Approved by Nursing Faculty Spring 2003

†1) Literature, 2) Philosophy, or 3) Fine Arts (ARTS 1301, DANC 2304, HUMA 1315, MUSI 1306 or THEA 1310)

•• Capstone Courses

Associate of Applied Science – Nursing Courses (RNSG)

- 1413 Foundations for Nursing Practice** 4:3:3
Introduction to the role of the professional nurse as provider of care, coordinator of care, and member of the profession. Topics include but are not limited to the fundamental concepts of nursing practice, history of professional nursing, a systematic framework for decision-making, mechanisms of disease, the needs and problems that nurses help patients manage, and basic psychomotor skills. Emphasis on knowledge, judgment, skills and professional values within a legal/ethical framework.
Prerequisite: Preadmission courses, admission to ADN program or departmental consent.
Corequisite: RNSG 1160, 1215, 1105, 1311, or permission from program director.
- 1160 Clinical: Foundations** 1:0:3
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisite: Preadmission courses, admission to ADN program or departmental consent.
Corequisite: RNSG 1413, 1215, 1105, 1311.
- 1215 Health Assessment** 2:0:6
Development of skills and techniques required for a comprehensive health assessment within a legal/ethical framework.
Prerequisite: Preadmission courses, admission to ADN program or departmental consent.
Corequisite: RNSG 1413, 1105, 1311, 1160.
- 1105 Nursing Skills I** 1:0:3
Study of the concepts and principles essential for demonstrating competence in the performance of nursing procedures. Topics include knowledge, judgment, skills, and professional values within a legal/ethical framework.
Prerequisite: Preadmission courses, admission to ADN program or departmental consent.
Corequisite: RNSG 1160, 1413, 1215, 1311.
- 1311 Pathophysiology** 3:2:3
Basic principles of pathophysiology emphasizing nursing applications. Topics include principles of homeostasis related to body systems.
Prerequisite: Preadmission courses, admission to ADN program or departmental consent.
Corequisite: RNSG 1160, 1413, 1215, 1105.
- 1341 Common Concepts of Adult Health** 3:3:0
Study of the general principles of caring for selected adult clients and families in structured settings with common medical-surgical health care needs related to each body system. Emphasis on knowledge judgment, skills, and professional values within a legal/ethical framework.
Prerequisite: Completion of all 1st semester courses, RNSG 1413, 1160, 1215, 1105.
Corequisite: RNSG 1160, 1144, 1301.
- 1161 Clinical: Common Concepts of Adult Health** 1:0:3
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisite: Completion of all 1st semester courses, RNSG 1413, 1160, 1215, 1105.
Corequisite: RNSG 1341, 1144, 1301.
- 1144 Nursing Skills II** 1:0:3
Study of the concepts and principles necessary to perform intermediate or advanced nursing skills; and demonstrate competence in the performance of nursing procedures. Topics include knowledge, judgment, skills and professional values within a legal/ethical framework.
Prerequisite: Completion of all 1st semester courses, RNSG 1413, 1160, 1215, 1105.
Corequisite: RNSG 1341, 1161, 1343, 1162, 1301.
- 1343 Complex Concepts of Adult Health** 3:3:0
Integration of previous knowledge and skills related to common adult health needs into the continued development of the professional nurse as a provider of care, coordinator of care, and member of a profession in the care of adult clients/families in structured health care settings with complex medical-surgical health care needs associated with each body system Emphasis on knowledge, judgments, skills, and professional values within a legal/ethical framework.
Prerequisites: RNSG 1413, 1160, 1215, 1105, 1311, 1341, 1161.
Corequisites: RNSG 1144, 1162, 1301.
- 1162 Clinical: Complex Concepts of Adult Health** 1:0:3
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisites: RNSG 1413, 1160, 1215, 1105, 1311, 1314, 1161.
Corequisites: RNSG 1144, 1343, 1301

- 1301 Pharmacology** 3:3:0
Introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of each drug classification. Topics include the roles and responsibilities of the nurse in safe administration of medications within a legal/ethical framework.
Prerequisites: RNSG 1413, 1160, 1215, 1105, 1311.
Corequisites: RNSG 1341, 1161, 1343, 1162, 1144.
- 2201 Care of Children & Families** 2:2:0
Study of concepts related to the provision of nursing care for children and their families, emphasizing judgment, and professional values within a legal/ethical framework.
Prerequisites: RNSG 1341, 1161, 1144, 1343, 1162, 1301.
Corequisites: RNSG 2160, 2208, 2161, 2213, 2102.
- 2160 Clinical: Children & Families** 1:0:4
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisites: RNSG 1341, 1161, 1144, 1343, 1162, 1301.
Corequisites: 2201, 2208, 2161, 2213, 2162.
- 2208 Maternal/Newborn Women Health** 2:2:0
Study of concepts related to the provision of nursing care for normal childbearing families and those at risk, as well as women's health issues; competency in knowledge, judgment, skill, and professional values within a legal/ethical framework, including a focus on normal and high-risk needs for the childbearing family during the preconception, prenatal, intrapartum, neonatal, and postpartum periods; and consideration of selected issues in women's health.
Prerequisites: RNSG 1341, 1161, 1144, 1343, 1162, 1301.
Corequisites: RNSG 2201, 2160, 2161, 2213, 2162.
- 2161 Clinical: Maternal/Newborn Women Health** 1:0:4
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisites: RNSG 1341, 1161, 1144, 1343, 1162, 1301.
Corequisites: 2201, 2208, 2213, 2162, 2160.
- 2213 Mental Health Nursing** 2:2:0
Principles and concepts of mental health, psychopathology, and treatment modalities related to the nursing care of clients and their families.
Prerequisites: RNSG 1341, 1161, 1144, 1343, 1162, 1301.
Corequisites: RNSG 2201, 2160, 2208, 2161, 2162.
- 2162 Clinical: Mental Health** 1:0:4
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisites: RNSG 1341, 1161, 1144, 1343, 1162, 1301.
Corequisites: 2201, 2208, 2161, 2213.
- 2221 Management of Client Care** 2:2:0
Exploration of leadership and management principles applicable to the role of the nurse as a provider of care, coordinator of care, and member of a profession. Includes application of knowledge, judgment, skills, and professional values within a legal/ethical framework.
Prerequisites: RNSG 2201, 2160, 2208, 2161, 2213, 2162.
Corequisites: RNSG 2260, 2231, 1207.
- 2260 Clinical: Management of Client Care** 2:0:10
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisites: RNSG 2201, 2160, 2208, 2161, 2213, 2162.
Corequisites: RNSG 2221, 2231, 1207.
- 2231 Advanced Concepts Adult Health** 2:1:3
Application of advanced concepts and skills for the development of the professional nurse's roles in complex nursing situations with adult clients/families with complex health needs involving multiple body systems in intermediate and critical care settings. Emphasis on knowledge, judgment, skills, and professional values within a legal/ethical framework.
Prerequisites: RNSG 2201, 2160, 2208, 2161, 2213, 2162.
Corequisites: RNSG 2221, 2260, 1207, 2263.

- 1207 Nursing Jurisprudence** **2:2:0**
 A course in nursing jurisprudence and ethics with an emphasis on personal and professional responsibility. Study of the laws and regulations related to the provision of safe and effective professional nursing care.
Prerequisites: RNSG 2201, 2160, 2208, 2161, 2213, 2162.
Corequisites: RNSG 2221, 2260, 2231, 2263.
- 2263 Clinical: Capstone** **2:0:10**
 A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisites: RNSG 2201, 2160, 2208, 2161, 2213, 2162, 2221, 2260.
Corequisites: RNSG 2231, 1207.

LVN to ADN Articulation Track

Associate Degree Program

Coordinator: Sandy Brannan

**232 Ward Health Sciences Bldg.
Phone 880-8822**

The LVN to ADN Articulation Track is an alternate track leading to an Associate of Applied Science Degree in Nursing. This track facilitates educational mobility for the experienced Licensed Vocational Nurse (LVN or LPN). Students enrolling in this track are required to be currently licensed as a LVN or LPN and have recent employment in nursing. All prerequisite courses require a grade of "C" or better prior to admission. Students must be accepted by the University and have an overall grade point average (GPA) of 2.0 or better prior to admission. Students are admitted to nursing based on space availability and completion of all prerequisite courses. Obtain listing of prerequisites from the Department of Nursing. Applications to the LVN to ADV track are due by **March 1** each year. Students will be admitted to the LVN to ADN track for the Summer 1 session. After completing all program requirements, including an exit examination, LVN to ADN students are eligible to take the NCLX-RN exam. Academic advisement by the Articulation Coordinator must occur prior to the March 1 deadline.

Department of Political Science

Department Chair: Glenn H. Utter

**201 Social and Behavioral Sciences
Building, Phone 880-8526**

Professors: Castle, Drury, Utter, Vanderleeuw

Fax 880-1710

Associate Professors: Lanier, True

Assistant Professor: Davis, Sowers

Instructor: Owen

The Political Science Department provides all university students with knowledge and appreciation of national and state political processes and equips undergraduate majors with a wide knowledge of the various substantive areas of the discipline, including American politics, comparative politics, public administration and public policy, political theory, and international relations. Students receive instruction in social science research methodology, critical analysis, and methods of effective communication to prepare them for appropriate professional, educational, and occupational opportunities.

Political Science faculty members have earned doctorates in a wide range of specializations within the broad areas of the discipline. Departmental instruction is energized and informed by faculty involvement in current research, scholarly publication, and professional activities at political science and social science organization meetings. Department faculty serve the larger local community by participating in civic organizations, commissions, and task forces, and offering professional expertise as consultants and advisers to local governmental and nongovernmental organizations.

The Department of Political Science offers the following undergraduate degrees: Bachelor of Arts in Political Science, Bachelor of Science in Political Science, and Bachelor of Science in Political Science with Social Studies Teacher Certification. Additionally, the Department offers a Pre-Law Program leading to Bachelor of Arts or Science degrees with intern credit.

Minimum Academic Standards for Political Science Majors

The following minimum academic standards apply to students enrolled as a major in the Department of Political Science:

1. A grade of C or better in English composition courses is required.
2. A grade of C or better in all Political Science courses is required.
3. A 2.0 grade point average in the major is required for graduation.
4. An overall grade point average of 2.0 is required for graduation.
5. A student with a grade point deficiency of 10 or more will not be allowed to register as a Political Science major or transfer into Political Science programs.

Political Science – Pre-Law

One of the traditional routes to law school is a four-year undergraduate degree in Political Science. Students may pursue either the Bachelor of Arts degree in Political Science or Bachelor of Science degree in Political Science as candidates for admission to a school of law. Both degrees retain the values of a liberal education (such as instruction in history, English, and foreign language) and the enhancement of technical skills (including computer science, accounting, and mathematics). With several free electives and an 18-hour minor, the Bachelor of Arts or Science in Political Science affords considerable flexibility in meeting each student's unique educational and career needs.

The Political Science Department Pre-Law counselor specializes in advice to Pre-Law students, assisting in the process of application to law school and maximizing the chance for success on the Law School Admission Test.

Juniors and seniors may also take part in the State Attorney General's Internship Program and various legislative and local government internships.

Legal Internships – Pre-Law

Exceptional students may qualify for a cooperative education program available in the legal profession. They earn up to six semester hours of elective internship credit in their junior and senior years while working half-days in local law firms. Law office experience is combined with academic assignments to develop skills useful to the potential lawyer. Admission to the program is by permission of the chair of the Department of Political Science and the pre-law advisor.

Bachelor of Arts – Political Science Major

The Bachelor of Arts degree in Political Science emphasizes a traditional liberal arts or humanities curriculum and includes the following requirements:

A. General Requirements:

See core curriculum. Students must have COMM 1315, and must take three additional hours of Math from MATH 1316, 1320, 1324, 1325, 2305, 2312 or higher, and three additional hours of sophomore literature.

B. Major (27 semester hours, 6 in the University core)

Political Science 2304

Political Science 2301-2302 (see University core)

Political Science 3319–Statistics for Social Scientists

Three semester hours from each of the following fields:

American politics (POLS 3301, 3313, 3340, 3350, 3390, 4370)

Political philosophy (POLS 4320, 4330)

International relations (POLS 3320, 3370, 4350)

Comparative politics (POLS 3310, 3317, 4381, 4383)

Public administration and policy (POLS 3316, 4300, 4340)

C. Minor (18 semester hours)

An approved minor of 18 semester hours, including at least nine advanced hours.

D. Additional requirements (13 semester hours)

Completion of 2312 in a foreign language (normally 12 semester hours)

One semester of physical activity

E. Electives

A number sufficient to total 121 semester hours (with at least 120 exclusive of physical activity), including 30 advanced, 24 at Lamar University.

Suggested Program of Study Bachelor of Arts in Political Science

First Year	Second Year
POLS 23043	Engl Lit.....6
Engl Comp6	For Lang6
For Lang6	HIST 1301-13026
Mathematics, including 1314 and three hours from MATH 1316, 1320, 1324, 1325, 2305, 23126	POLS 2301-23026
PEGA1	POLS 33193
PHIL 13703	Fine Arts (from HUMA 1315, MUSI 1306, ARTS 1301, THEA 1310 or DANC 2304.....3
COMM 1315.....3	
28	30
Third Year	Fourth Year
Political Science advanced9	Political Science advanced6
Social science (ANTH 2346 or 2351, ECON 1301, PSYC 2301, or SOCI 1301)3	Minor9
Laboratory science.....8	Electives16
Minor9	
Elective3	
32	31

Bachelor of Science – Political Science Major

The Bachelor of Science degree in Political Science emphasizes quantitative skills in the applied social sciences and includes the following requirements:

- A. General Requirements:
See core curriculum. Students must have COMM 1315, and must take three additional hours of Math from MATH 1316, 1320, 1324, 1325, 2305, 2312, and three additional hours of sophomore literature.
- B. Major (30 semester hours, 6 in the University core)
Political Science 2304
Political Science 2301-2302 (see University core)
Political Science 3319 - Statistics for Social Scientists
Political Science 4319 - Advanced Research Methods
Three semester hours from each of the following fields:
American politics (POLS 3301, 3313, 3340, 3350, 3390, 4370)
Political philosophy (POLS 4320, 4330)
International relations (POLS 3320, 3370, 4350)
Comparative politics (POLS 3310, 3317, 4381, 4383)
Public administration and policy (POLS 3316, 4300, 4340)
- C. Minor (18 semester hours)
An approved minor of 18 semester hours, including at least nine advanced hours.
- D. Additional requirements (13 semester hours)
Computer Science 1371
Nine semester hours selected from two of the following areas:
Accounting 2301-2302
Economics 2302, 2301, 1301, or advanced
Mathematics - advanced
Psychology - advanced
Computer Science - advanced
One semester of physical activity
- E. Electives
A number sufficient to total 121 semester hours (with at least 120 exclusive of physical activity), including 30 advanced, 24 at Lamar University.

Suggested Program of Study Bachelor of Science in Political Science

First Year	Second Year
POLS 23043	Engl Lit.....6
Engl comp6	HIST 1301-13026
Social Science (from ANTH 2346 or 2351, ECON 1301, PSYC 2301, or SOCI 1301).....3	POLS 2301-23026
Mathematics, including MATH 1314 and three hours from MATH 1316, 1320, 1324, 1325, 2305, 23126	POLS 33193
PEGA1	COSC 13713
PHIL 13703	Approved electives9
COMM 1315.....3	
Fine Arts (from HUMA 1315, MUSI 1306, ARTS 1301, THEA 1310 or DANC 2304)3	

Third Year	Fourth Year
POLS 43193	Poli Sci advanced6
Poli Sci advanced9	Minor9
Lab science.....8	Electives16
Minor9	
29	31

Bachelor of Science – Political Science Major with Social Studies Teacher Certification

Students wishing to earn the Bachelor of Science in Political Science and at the same time certify with Social Studies as a teaching field must meet the following requirements:

- A. General Requirements:
See core curriculum. Students must take three additional hours of Math from MATH 1316, 1320, 1324, 1325, 2305, 2312 or higher, and three additional hours of sophomore literature. Lab Science must include eight hours in the same science; Communication must be 1315 or 3310. Social Science course must be ECON 1301.
- B. Major (24 semester hours, 6 in University core)
Political Science 2304
Political Science 2301-2302 (see University core)
Three semester hours from each of the following fields:
American politics (POLS 3340, 4370)
Political philosophy (POLS 4320, 4330)
International relations (POLS 3320, 3370, 4350)
Comparative politics (POLS 3310, 3317, 4381, 4383)
Public administration and policy (POLS 3316, 4300, 4340)
- C. Composite Social Studies (24 semester hours)
HIST 2301; HIST 3301; HIST 3302; six hours chosen from HIST 3303, 3321, and 3322; ECON 3340; FINC 3306; SOCI 3306; SOCI 4320
- D. Pedagogy (24 semester hours)
PEDG 3310, 3320, 3380, 4380 and 4920; READ 3326
- E. Foundation requirements (9 semester hours)
Political Science 2330 - Political Geography
Political Science 3319 - Statistics for Social Scientists
Political Science 4319 - Advanced Research Methods
- F. Additional requirement (one semester hour)
One semester of physical activity
- G. The minimum number of semester hours required for the Bachelor of Science in Political Science with Social Studies teacher certification is 126 (with at least 125 exclusive of physical activity), including 30 advanced, 24 at Lamar University.

Suggested Program of Study – Bachelor of Science in Political Science with Social Studies Teacher Certification

First Year	Second Year
POLS 23043	English Lit6
Engl Comp6	POLS 2301-23026
Mathematics (1314 and 3 hrs. from 1316, 1320, 1324, 1325, 2305, or 2312)6	POLS 23303
ECON 13013	Laboratory science (same science)8
HIST 1301-13026	HIST 23013
PHIL 13703	HIST 3301-33026
Fine Arts (HUMA 1315, MUSI 1301, ARTS 1301, THEA 1310, or DANC 1370)3	
COMM 1315 or 33103	
Physical Activity1	
34	32
Third Year	Fourth Year
POLS 33193	Political Science advanced6
POLS 43193	FINC 33063
Political Science advanced9	HIST 3303, 3321, 33226
SOCI 33063	PED 3380, 4380, 492015
ECON 33403	
READ 33263	
PEDG 3310, 33206	
30	30

Minor in Political Science

An 18 hour Political Science minor consists of nine hours of lower division courses plus nine hours of advanced courses. The lower division courses are:

- POLS 2301 Introduction to American Government I
- POLS 2302 Introduction to American Government II
- POLS 2304 Introduction to Political Science

The nine hours of advanced work may be chosen from among the department's offerings at the 3000 and 4000 levels, *excluding* POLS 4310 (Directed Study) and internships.

Political Science Courses (POLS)

2301	Introduction to American Government I The national and Texas constitutions; federalism; political socialization and participation; public opinion and interest groups; parties, voting and elections. <i>Prerequisite: Sophomore standing.</i>	3:3:0
2302	Introduction to American Government II The legislative, executive and judicial branches and the bureaucracy; policy formulation and implementation including civil rights and civil liberties, domestic and foreign policies. <i>Prerequisite: POLS 2301.</i>	3:3:0
2304	Introduction to Political Science An introductory survey of the concepts, techniques, and methods for analyzing the political behavior of individuals, groups, and nations.	3:3:0
2330	Political Geography A survey of the impact of cultural factors on evolving political systems from a global and comparative perspective.	3:3:0

3210	Legal Internship I Practical experience in law office procedure and operation with career related assignments and projects under the guidance of a faculty member. <i>Prerequisite: Approval of department chair.</i>	2:2:0
3220	Legal Internship II Practical experience in law office procedure and operation with career related assignments and projects under the guidance of a faculty member. <i>Prerequisite: Approval of department chair, POLS 3210.</i>	2:2:0
3230	Legal Internship III Practical experience in law office procedures and operation with career related assignments and projects under the guidance of a faculty member. <i>Prerequisite: Approval of department chair, POLS 3220.</i>	2:2:0
3301	Legislative Process The structure, functioning and political control of legislative bodies.	3:3:0
3310	Government and Politics of Europe Political institutions, processes and public policies of the European countries, including Russia and other former Communist states.	3:3:0
3313	Judicial Process The theory and structure of the American court system; its personnel and decision-making processes; the judicial process in the setting of the American criminal justice system.	3:3:0
3316	Introduction to Public Administration American public administration, with emphasis upon modern problems and trends.	3:3:0
3317	Politics of Developing Nations Political systems of Latin America, Africa, the Middle East and Asia, focusing on ideologies, interest groups, political parties, elites and problems in political development.	3:3:0
3319	Statistics for Social Scientists Basic concepts and techniques of statistics employed in social science research including descriptive statistics; measures of central tendency and dispersion; correlation and regression analysis; inductive statistics; fundamentals of probability and tests of significance.	3:3:0
3320	International Politics The concepts underlying the Western State system; nationalism and imperialism; the techniques and instruments of power politics and the foreign policies of selected states.	3:3:0
3340	American Political Parties and Interest Groups Political parties in terms of their theory, their history and their place in contemporary American politics; analysis of the role of economic and other groups in American politics; group organization and techniques of political influence.	3:3:0
3350	American Presidency The operation of the office in foreign and domestic decision-making, including political, social and economic policy areas.	3:3:0
3370	Politics of American Foreign Policy United States foreign policy; its domestic sources; the instruments of American diplomacy; United States involvement in world politics and the limitations and potentials of American foreign policy.	3:3:0
3390	Urban Politics Organization and development of urban governments in the United States. Interrelationships among urban problems, political behavior and policy.	3:3:0
4300	Organization Theory and Behavior Structural and management aspects of public administration, theory and practice; policy formation processes and techniques.	3:3:0
4310	Directed Study Students may study individually with an instructor in an area of mutual interest to the student and the instructor. <i>Prerequisite: Approval of chair of Department of Political Science.</i>	
4319	Advanced Research Methods Special problems, topics, cases, models and theories in political science research. <i>Prerequisite: POLS 3319</i>	
4320	Political Thought I Western political thought from the Greeks to the 17th Century.	3:3:0
4330	Political Thought II Political philosophy from the 18th Century to the present with emphasis on contemporary theorists.	3:3:0

- 4340 Formulation of Public Policy** 3:3:0
The demands for public action on policy issues; organization and nature of political support; processes and problems of decision making in the formulation of public policy in the United States. The issues studied will vary.
- 4350 International Law and Institutions** 3:3:0
Political, legal and institutional foundations of the modern international system, including the United Nations. Emphases include peaceful settlement of international disputes and the developing global system.
- 4370 American Constitutional Law and Development** 3:3:0
Development of the American Constitution through judicial interpretations. Particular emphasis on cases dealing with federalism, commerce, the three branches of government, due process, civil rights, and civil liberties.
- 4381 Government and Politics of Asia**
Political institutions, processes and public policies of the Asian countries, with special emphasis on China, India and Japan.
- 4383 Government and Politics of Latin America**
Political systems of Latin America with special emphasis on political culture, constitutional development, authoritative decision-making agencies, interest identification, leadership selection, political socialization and conflict resolution.
- 4390 Special Topics in Political Science** 3:3:0
Selected special topics from the subfields of political science. Course may be repeated for credit when the topic varies.

Department of Psychology

Department Chair: Oney D. Fitzpatrick, Jr.

203 Social and Behavioral
Sciences Building, Phone 880-8285

Emeritus Professors: Bell, Walker

Professor: Esser

Associate Professors: Fitzpatrick, Lindoerfer

Assistant Professors: Mann, Rinker, Shelton

Lecturers: Johnson, Kirk, Lewis

Psychology is the scientific study of behavior and mental processes and, as such, is a diverse field that touches all aspects of human endeavor. The objectives of the Department of Psychology are to provide students with current knowledge through learning experiences in and out of the classroom which will increase critical-thinking skills, equip them with research methodology, and prepare them for employment in business, education, community agencies, other professional areas, or graduate school.

Admission to Department of Psychology Programs

Students wishing to major in psychology must present SAT/ACT scores of 900/19. Students changing their major to psychology must have SAT/ACT scores and be in good standing in the University.

Bachelor of Arts – Psychology Major

The degree of Bachelor of Arts in Psychology will be awarded upon completion of the following:

A. General Requirements

See core curriculum, p. 15 and degree requirements, p. 64-65. Plus eight semester hours of Biology (1406-1407, 1470-1471 or 2401-2402), 12 semester hours and completion of 2312 course in foreign language or 9 hours of sign language

and completion of CMDS 4305, an additional 3 hours of math, and an additional 3 hours of fine arts.

- B. Major
 Psychology 2301 General Psychology
 Psychology 2471 Introduction to Statistical Methods
 Psychology 3420 Methods in Psychology
 Psychology: an additional 18 semester hours, a minimum of 12 semester hours must be on the advanced level
- C. Minor (18 semester hours)
 An approved minor of 18 semester hours, a minimum of 9 semester hours must be on the advanced level
- D. Electives
 A sufficient number of approved electives to complete a total of 128 semester hours
- E. Completion of Major Field Achievement Test
- F. Meet all remaining general education degree requirements of the University and College as described under the Academic Policies and Procedures section of this catalog which are not listed above.

Suggested Program of Study

First Year	Second Year
Biol8	Engl Lit6
Engl Comp6	For Lang6
For Lang6	HIST 1301-13026
Math6	PSYC 2471 Into to Statistical Methods4
PSYC 2301 General Psychology3	Comm3
PEGA1	Fine Arts6
PHIL 13703	
33	31
Third Year	Fourth Year
POLS 2301-23026	Psyc Advanced9
PSYC 3420 Methods in Psych4	Minor9
Psyc Advanced9	Electives12
Minor9	
Electives6	
34	30

Total 128 Hours

Bachelor of Science – Psychology Major

The degree of Bachelor of Science in Psychology will be awarded upon completion of the following:

1. General Requirements

See core curriculum, p. 15. Plus, eight semester hours of Biology (1406-1407, 1470-1471 or 2401-2402), eight semester hours of physical science, and three hours of Computer Science, and three additional hours of math above math 1314.

2. Major
 - Psychology 2301 General Psychology
 - Psychology 2471 Introduction to Statistical Methods
 - Psychology 3420 Methods of Psychology
 - Psychology 4430 Experimental Psychology
 - Psychology: an additional 18 semester hours, to include nine semester hours selected from Psychology 3310, 3320, 3330, 3340, and 4320 and nine semester hours selected from Psychology 3360, 4310, 4360 and 4380.
3. Minor
 - An approved minor of 18 semester hours a minimum of 9 semester hours must be on the advanced level
4. Electives
 - A sufficient number of approved electives to complete a total of 128 semester hours
5. Completion of Major Field Achievement Test
6. Meet all remaining general education degree requirements of the University as described under the Academic Policies and Procedures section of this catalog which are not listed above.

Suggested Programs of Study

First Year	Second Year
Biol8	Comm3
Engl Comp6	Engl Lit6
Math6	Comp Sci3
Physical Science8	Psychology - Advanced3
PSYC 2301 General Psychology3	PSYC 2471 Intro to Statistical Methods4
PEGA1	Hist 1301-13026
PHIL 13703	Fine Arts3
35	Electives3
	31
Third Year	Fourth Year
POLS 2301-23026	Minor6
PSYC 3420 Methods in Psychology4	PSYC 4430 Experimental Psy4
Psychology - Advanced6	Psychology - Advanced9
Minor6	Minor6
Electives9	Electives6
31	31
Total 128 hours	

Minor in Psychology

A total of 18 hours of psychology courses are required for a minor, of which 9 hours must be upper level. The department will not accept any grade in the minor below a "C".

Required lower division courses: PSYC 2301 General Psychology
 PSYC 2471 Statistical Methods

It is advisable for a student to meet with someone in the Department of Psychology to discuss the selection of the remaining 12 hours to best address the needs of the individual student.

*** Bachelor of Science in Psychology***** Bachelor of Science in Biology****First Year**

BIOL 1406-1407 Gen Bio.....	8
CHEM 1411-1412 General.....	8
Engl Comp	6
MATH 2312 Precalculus Mathematics.....	3
PSYC 2301 Introduction to Psychology	3
PSYC 2471 Introduction to Statistical Methods	4
PEGA	2
PHIL 1370	3
	<hr/>
	37

Summer

POLS 2301, 2302	6
Fine Arts	3
HLTH 1370.....	3
	<hr/>
	12

Third Year

HIST 1301-1302	6
PHYS 1401-1402 General	8
BIOL 3470 Genetics	4
BIOL 3450 Botany	4
PSYC 4430 Experimental Psy	4
# Psyc Advanced	9
	<hr/>
	35

Second Year

CHEM 3411, 3412 Organic	8
BIOL 3428 Comparative Anatomy or 4440 Vertebrate Natural History	4
BIOL 2420 Microbiology	4
PSYC 3420 Methods	4
Engl Lit.....	6
MATH 2376	3
Computer Science	3
# Psyc Advanced	3
	<hr/>
	35

Fourth Year

BIOL 3460 Invertebrate Zoology.....	4
BIOL 4170 Classical Biological Literature	2
**Biol Electives	12
# Psyc Advanced	6
Electives	13
	<hr/>
	37

*Both degrees must be awarded simultaneously.

**Biology electives chosen from BIOL 3420, 3440, 4460.

Advanced Psychology elective: Group I (choose any three): PSYC 3310, 3320, 3330, 3340, 4320; Group II (choose any three): PSYC 3360, 4310, 4360, 4380.

Psychology Courses (PSYC)

2270 Learning and Study Skills	2:2:1
Designed to help students improve their academic skills. Topics include learning styles analysis, active reading skills, test-taking skills, self-monitoring, memory improvement, time management and career orientation.	
2301 General Psychology	3:3:0
An introductory survey of the major areas of psychology such as learning, personality, social, testing, developmental and physiological. Emphasis is on psychology as the scientific study of behavior and includes both human and animal behavior.	
2308 Child Psychology	3:3:0
A study of the growth and development of behavior patterns in children.	
2311 Adult Development and Aging	3:3:0
A survey of major issues in adult development and aging including biological, cognitive, personality, social and disease factors. <i>Prerequisite: PSYC 2301 or 2308.</i>	
2471 Introduction to Statistical Methods	4:3:2
Statistical concepts and techniques used in behavioral science research. Topics include graphs, measures of position, central tendency and dispersion, correlation and regression, probability, tests of significance and introduction to non-parametric techniques. <i>Prerequisite: MATH 1314 or higher.</i>	
3310 Systems and History of Psychology	3:3:0
Historical development of psychology. Emphasis on the evolution of major systems of psychology. <i>Prerequisite: PSYC 2301.</i>	
3320 Psychology of Personality	3:3:0
A study of several of the major theories of personality organization and adjustment processes. <i>Prerequisite: PSYC 2301.</i>	

- 3330 Psychology of Social Interaction** 3:3:0
Investigation of psychological basis of interpersonal behavior. Emphasis is on the study of individual experience and behavior in relation to the social environment, and how individual behavior both affects and is affected by social interaction.
Prerequisite: PSYC 2301.
- 3340 Industrial Psychology** 3:3:0
Introduction to psychological processes and techniques as they apply in industrial settings. Emphasis on selecting, training and evaluating workers. Emphasis also on organizational influences on behavior.
Prerequisite: PSYC 2301.
- 3360 Psychological Tests and Measurements** 3:3:0
Theory and use of instruments for measurements of intelligence, interests, aptitude and attitudes.
Prerequisite: PSYC 2301, 2471 or equivalent or permission of instructor.
- 3420 Methods in Psychology** 4:3:2
An introduction to the methods of research employed in the scientific study of behavior. Topics include nature and philosophy of science, experimental design, data analysis and report writing. Several demonstrations are conducted and reported by students.
Prerequisite: PSYC 2301 and 2471.
- 4100, 4300 Undergraduate Research** 1-3:A:0
Designed to provide an opportunity for advanced psychology students to pursue an individual research project under the direction and supervision of a faculty member. May be repeated for credit.
Prerequisite: 9 hours of psychology and permission of instructor.
- 4301 Special Topics** 2-3:A:0
Includes library and/or laboratory work and conferences with a faculty member. A description of the particular area of study will be indicated. A student may repeat the course for credit when the area of study varies.
Prerequisite: Permission of instructor.
- 4310 Sensation and Perception** 3:3:0
A review of research and theory regarding the structure and function of the basic sensory processes and sensory perception.
Prerequisite: PSYC 2301 and 2471.
- 4320 Abnormal Psychology** 3:3:0
A study of abnormal behavior. Special emphasis on the symptomatology, etiology and therapeutic approaches.
Prerequisite: PSYC 2301.
- 4360 Learning and Cognition** 3:3:0
Theories and research concerning learning and cognitive processes, with a consideration of practical implications.
Prerequisite: PSYC 2301.
- 4380 Behavioral Neuroscience** 3:3:0
Survey of the biological bases of behavior with emphasis on the mechanisms in the central nervous system.
Prerequisite: PSYC 2301.
- 4430 Experimental Psychology** 4:3:2
Techniques to demonstrate and investigate concepts in psychology. Includes planning and executing an original research project.
Prerequisite: PSYC 3420.

Department of Sociology, Social Work and Criminal Justice

Department Chair: James J. Love

55 Maes Building, Phone 880-8538

Professors: Altemose, Birdwell, Ma, K.B. Smith, Wright

Associate Professors: Love, Monroe

Assistant Professors: Brown, Frisbie, Jordan, Robertson, Saur

Instructors: Penland, Smith, Walker

Lecturer: McCarty, Webb

Coordinator, Child Welfare Project: McCarty

Sociology social work and criminal justice is a multidisciplinary department, consisting of four academic programs, sociology, anthropology, social work, and criminal

justice. Each has its own unique mission. The common general mission of the four programs is to provide high-quality education through baccalaureate programs in sociology, social work, and criminal justice, a master's in applied criminology, and a minor in anthropology. All programs emphasize excellence in instruction, research and scholarship, professional development, university and community service, and the preparation of students for graduate and/or professional education. For additional information about the Department of Sociology, Social Work and Criminal Justice, visit our website: <http://dept.lamar.edu/artssciences/crime/index.html>

Departmental Academic Policies

1. A grade of "C" or higher for each course in the major field (including transfer courses) is required for graduation.
2. Each student's use of English is subject to review up to and including the semester in which he or she is scheduled to graduate. Any faculty member who identifies a departmental major having poor English skills will notify the student and the department chair in writing. The department chair will then review writing samples and consult with the Director of Freshman English. Based on the recommendations of the Director of Freshman English and the department chair, additional diagnostic procedures and course work may be required before the student is recommended for graduation.
3. Students who wish to transfer into the department as sociology, criminal justice, or social work majors must have a minimum 2.00 grade point average. All department majors must maintain a 2.00 or better G. P. A. to remain in their respective programs.
4. The departmental academic probation and suspension policy is identical to that of the College of Arts and Sciences and is available from the office of the dean or department chair.
5. Students who are majoring in this department and who are on academic probation or returning from academic suspension may not enroll in more than 12 semester hours (13-15 hours if a laboratory course and P.E. are taken) in any semester.
6. All departmental majors (full-time and part-time) must have satisfied both the University's and the College of Arts and Sciences' requirements for English composition and mathematics before registering for 300- and 400-level courses offered by the department.

Pre-Law

As prospective candidates for admission to a school of law, students may pursue one of the bachelor's degrees offered by the department. The degree plan may include any of the following courses as electives or a minor:

- Criminal Justice 1306 — Court System and Practices
- Criminal Justice 1310 — Fundamentals of Criminal Law (pending final approval)
- Criminal Justice 3300 — Advanced Criminal Law
- Criminal Justice 3310 — Criminal Procedure and Evidence

Criminal Justice 3380 — Correctional Law
Criminal Justice 4300 — Legal Research, Brief Writing and Oral Advocacy
Political Science 4370 — American Constitutional Law and Development
Business Law 3310 — Business Law
Business Law 4340 — Advanced Legal Principles .

Sociology

Program Director: Li-chen Ma

65 Maes Building, Phone 880-8545

The mission of the program is to provide undergraduates with scientific knowledge of the structures, forms, and dynamics of human interaction within a broadly-based liberal arts education. The program emphasizes the research methods used to acquire data, test hypotheses, conduct analyses, and evaluate information. In addition students are prepared to critically consider social problems such as crime, unemployment, violence, urban decay, and poverty. In our complex, technical and multicultural world, sociology equips students to understand the importance of empirical research from which to evaluate societal needs and inform public policy.

The program is committed to baccalaureate programs which create liberating educational experiences for each major. Under the personal and concerned guidance of faculty, students matriculate in one of two baccalaureate programs – the bachelor's of science or the bachelor's of arts.

Sociology is the study of social life and the social causes and consequences of human behavior. Sociology's subject matter ranges from the intimate family to the hostile mob, from crime to religion, from the division of race and social class to the shared beliefs of a common culture, from the sociology of religion to the sociology of medicine. Sociology is a popular major for students planning futures in such professions as law, business, education, politics, public administration, and even medicine. The research interests of Lamar's sociology faculty include social stratification, criminology, alienation, gender roles, sociology of education, sociology of religion, and family structure and functioning. The Bachelor of Science degree is designed for students whose interests are more quantitative, while the Bachelor of Arts offers a traditional liberal arts education.

Bachelor of Science – Sociology Major

The degree of Bachelor of Science in Sociology will be awarded upon completion of the following requirements:

A. General Requirements:

See core curriculum, p. 15. Math requirement: MATH 1314 plus a statistics course (4 credit hours).

B. Major - 34 semester hours to include:

Sociology 1301 - Introduction to Sociology

Sociology 4380 - Research Methods

- Sociology 4390 - Social Theory
Sociology 4110 - Proseminar
- C. Departmental Requirements - 12 semester hours to include:
Social Work - Three hours
Criminal Justice - Three hours
Anthropology - Three hours
Computer Science - COSC 1371
- D. Minor - an approved minor of 18 semester hours, six of which must be advanced.
- E. Electives - Sufficient approved electives to satisfy University minimum hour requirements for graduation.

Suggested Program of Study

First Year

First Semester	Second Semester
ENGL 13013	ENGL 1302 or 1374 or 1353
MATH 13143	MATH 1342 or PSYC 24713-4
Lab Science4	Lab Science4
PHIL 13703	SOCI3
SOCI 13013	PEGA1
16	14-15

Second Year

First Semester	Second Semester
Engl Lit3	HIST 13023
HIST 13013	Fine Arts3
Anth3	SOWK3
Comp Sci3	SOCI (Adv.)3
SOCI3	Minor/Electives3
15	15

Third Year

First Semester	Second Semester
POLS 23013	POLS 23023
COMM 13153	CRJ3
SOCI (Adv.)3	SOCI (Adv.)6
Minor/Electives6	Minor/Electives3
15	15

Fourth Year

First Semester	Second Semester
SOCI 43803	SOCI 43903
SOCI 41101	SOCI (Adv.)3
Minor/Electives12	Minor/Electives9
16	15

Bachelor of Arts – Sociology Major

The degree of Bachelor of Arts in Sociology will be awarded upon completion of the following requirements:

A. General Requirements:

Meet the University's core curriculum requirements for a bachelor's degree which are described earlier in this bulletin and satisfy all departmental requirements.

Completion of the 2312 course in a foreign language.

Literature - Six semester hours

B. Departmental requirements:

The requirements concerning major, departmental requirements, minor, and electives are the same as for the Bachelor of Science degree listed above.

Suggested Program of Study

First Year

First Semester	Second Semester
ENGL 13013	ENGL 1302 or 13743
MATH 13143	MATH 1342 or PSYC 24713-4
Foreign Lang 1311 or 13133	Lab Science4
PHIL 13703	Foreign Lang 1312 or 13143
SOCI 13013	SOCI3
15	16-17

Second Year

First Semester	Second Semester
Engl Lit3	Engl Lit3
HIST 13013	HIST 13023
Foreign Lang 23113	Foreign Lang 23123
Lab Science4	Fine Arts3
SOCI3	SOCI (Adv.)3
PEGA1	
17	15

Third Year

First Semester	Second Semester
POLS 23013	POLS 23023
SOWK3	Anth3
CRIJ3	Comp Sci3
SOCI (Adv.)3	SOCI (Adv.)6
Minor/Elective3	
15	15

Fourth Year

First Semester	Second Semester
COMM 13153	SOCI 43903
SOCI 43803	SOCI (Adv.)3
SOCI 41101	Minor/Electives9
Minor/Electives9	
16	15

Minor In Sociology

Total of 18 hours required for the minor.

Three required courses from lower division:

SOCI 1301 - Introduction to Sociology

SOCI 1306 - Social Problems

SOCI 2301 - Marriage and the Family

Three courses from upper division:

Two required courses:

SOCI 4380 - Research Methods

SOCI 4390 - Social Theory

And one of the following:

SOCI 3306 - Race and Ethnic Relations

SOCI 3310 - Sociology of Gender

SOCI 3330 - Urban Sociology

SOCI 3380 - Criminology

SOCI 4320 - Sociology of Education

SOCI 4340 - Social Change and Movement

SOCI 4350 - Sociology of Religion

Social Work

Program Director: Vernice M. Monroe

53 Maes Building, Phone 880-8552

The Lamar University Social Work Program prepares graduates for generalist social work practice. The program is accredited by the Council on Social Work Education which entitles the BSW graduate to apply for licensure as a Licensed Social Worker (LSW). The primary mission of the social work profession is to enhance well-being and help meet the basic human needs of all people, with particular attention to the needs and empowerment of people who are vulnerable, oppressed, and living in poverty. Social workers promote social justice and social change with, and on behalf of, individuals, families, groups, organizations and communities (*National Association of Social Workers Code of Ethics, 2003*). The research/training interests of Lamar's social work faculty include family violence, child welfare, multicultural practice, developmental disabilities, social work education and social welfare policy.

Bachelor of Social Work

The Bachelor of Social Work (BSW), which prepares students for entry-level professional social work practice, will be awarded upon completion of the following requirements:

A. General Requirements:

See core curriculum, p. 15. The lab science courses must be biology. Math requirement: Math 1314 plus a statistics course.

- B. Major - 42 semester hours to include:
 Social Work 2361, 2371, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 4320, 4321, 4324, 4380 plus at least one three-hour elective (SOWK 4320).
- C. Departmental Requirements - 21 semester hours
 Sociology 1301, 1306
 Psychology 2301, and 2308 or 2376
 Criminal Justice
 Anthropology
 Computer Science 1371
- D. Approved Electives: 12 semester hours
 Students, with faculty advisor approval, must select any approved electives in related disciplines.

Suggested Program of Study

First Year

First Semester	Second Semester
ENGL 13013	ENGL 1302 or 13743
Math3	BIOL 14094
BIOL 14084	PSYC 23013
SOCI 13013	COMM 13153
PEGA1	CRJ3
14	16

Second Year

First Semester	Second Semester
PHIL 13703	Engl Lit3
HIST 13013	HIST 13023
Fine Arts3	PSYC 2308 or 23763
SOCI 13063	POLS 23013
SOWK 23613	SOWK 23713
15	15

Third Year

First Semester	Second Semester
COSC3	SOWK 33003
POLS 23023	SOWK 33103
Anth3	SOWK 33403
Approved Elective3	PSYC 2471 or Statistics3-4
12	16

Fourth Year

First Semester	Second Semester
SOWK 33203	SOWK 33503
SOWK 33303	SOWK 43203
SOWK 43803	SOWK 43203
SOWK 33603	Approved Electives3
Approved Elective3	12
15	
Summer Semester I	Summer Semester II
SOWK 43213	SOWK 43243

Minor in Social Work

Total of 18 hours are required for a minor in Social Work

Required lower division classes:

SOWK 2361

SOWK 2371

PLUS any additional 12 hours in Social Work

Criminal Justice

Program Director: Jennifer D. Frisbie

58 Maes Building, Phone 880-8541

The mission of the **criminal justice program** is to provide excellence in graduate and undergraduate instruction; research and scholarship; professional development; and university and community service. The program seeks to promote professionally and academically relevant curricula and programs and effective cooperative relationships with regional service agencies in order to prepare criminal justice practitioners at the graduate and undergraduate levels.

Bachelor of Science – Criminal Justice Major

The Bachelor of Science in Criminal Justice will be awarded upon completion of the following requirements:

A. General Requirements:

See core curriculum, p. 15. Math requirement: Math 1314 plus a statistics course.

B. Criminal Justice Core - 36 semester hours including:

1. 18 semester hours required: CRIJ 1301, CRIJ 1306, CRIJ 2313, CRIJ 2328, CRIJ 3309, and CRIJ 4311.

2. Criminal Justice Electives (9 semester hours — any level)

3. Advanced Criminal Justice Electives (6 semester hours)

C. Social/Behavioral Science Cognate Courses — 3 semester hours

selected from ECON 1301, PSYC 4320, ANTH 2351, SOCI 3390 or SOWK 2371.

D. Research and Analysis Courses — 9 semester hours.

1. Research Methods: PSYC 3420, SOCI 4380 or SOWK 4380

2. Criminology Elective: SOCI 3380 or CRIJ 3311

3. Computer Science: COSC 1371

E. Criminal Justice Field Experience (3 semester hours): CRIJ 4340. If student has prior criminal justice field experience, the faculty advisor may substitute an additional CRIJ approved elective.

- F. Minor or Approved Electives - 18 semester hours, nine of which must be advanced.
- G. Electives - Sufficient electives to complete the 121 hour degree requirement.

Suggested Program of Study

First Year

First Semester	Second Semester
ENGL 13013	ENGL 1302 or 13743
MATH 1314 or higher3	Math/Data3
CRIJ 13013	Soc Sci3
PHIL 13703	CRIJ 23133
CRIJ 13063	CRIJ elective.....3
PEGA1	HIST 13013
<u>16</u>	<u>18</u>

Second Year

First Semester	Second Semester
Engl Lit3	Fine Arts3
HIST 13023	CRIJ/Criminology.....3
Lab Science4	Lab Science4
POLS 23013	POLS 23023
CRIJ.....3	COMM 1315.....3
<u>16</u>	<u>16</u>

Third Year

First Semester	Second Semester
CRIJ 23283	Soc Sci3
Quan. Anal.3	COSC 13713
CRIJ 33093	Methods3
Electives6	Electives6
<u>15</u>	<u>15</u>

Fourth Year

First Semester	Second Semester
CRIJ 43113	CRIJ 43403
CRIJ.....3	Electives3-4
CRIJ Adv.....6	Elective Adv.....3
Elective Adv.....3	
<u>15</u>	<u>9-10</u>

Bachelor of Arts – Criminal Justice Major

The Bachelor of Arts in Criminal Justice will be awarded upon the completion of the following requirements:

A. General Requirements:

Meet the University's core curriculum requirements for a Bachelor of Arts degree, which are described earlier in this catalog, and satisfy all departmental requirements

B. Departmental Requirements:

Criminal Justice Core, Social Science Cognates, and Research/Analysis requirements except Field Experience.

Suggested Program of Study

First Year

First Semester	Second Semester
ENGL 13013	ENGL 1302 or 13743
MATH 1314 or Higher3	Math/Data3
CRIJ 13013	Soc Sci3
PHIL 13703	CRIJ elective3
CRIJ 13063	CRIJ elective3
PEGA1	HIST 13013
16	18

Second Year

First Semester	Second Semester
Engl Lit3	Fine Arts3
HIST 13023	CRIJ/Criminology3
Lab Science4	Lab Science3
POLS 23013	POLS 23023
CRIJ 23133	COMM 13153
16	15

Third Year

First Semester	Second Semester
For Lang 1311 or 13133	For Lang 1312 or 13143
CRJ 33093	Engl Lit3
Minor6	Methods3
CRIJ 23283	Minor6
15	15

Fourth Year

First Semester	Second Semester
For Lang 23113	For Lang 23123
CRIJ3	Minor Adv3
Minor Adv3	CRIJ3
CRIJ Adv6	CRIJ3
15	12

Minor in Criminal Justice

Total of 18 hours required for the minor

Three lower division courses:

Required Courses:

CRIJ 1301

CRIJ 1306

And one of the following courses:

CRIJ 1310 *Pending Coordinating Board approval

CRIJ 2313

CRIJ 2328

Plus any three (3) upper division CRIJ courses

Anthropology

Faculty Advisor: Donna Birdwell-Sykes

54 Maes Building, Phone 880-8551

The mission of **Anthropology** at Lamar University is threefold: 1) to provide a minor in anthropology to undergraduate students; 2) to support general education, and 3) to advance higher learning through both research and instruction. The minor in Anthropology adds cultural breadth to almost any major field and can also effectively prepare a student for graduate work in anthropology. Anthropology supports general education both through the Core Curriculum (ANTH 2346 and ANTH 2351) and through course content throughout the anthropology curriculum, which focuses strongly on the relevance of anthropology to modern life in a multicultural, global community. Faculty in anthropology maintain an active program of original research, which is of direct benefit to curriculum and instruction.

Anthropology 2346 or 2351 satisfies the social science requirement of the University Core Curriculum. A minor in anthropology is a useful complement to majors in sociology, social work, criminal justice, history, psychology, and other fields. Interested students are invited to consult with the faculty advisor in anthropology.

Minor In Anthropology

Total of 18 hours required for the minor.

Required Courses (recommended in this sequence):

ANTH 2346

ANTH 2351

ANTH 2302 or 2372

Three from the following:

ANTH 3310

ANTH 3340

HNRS 3360 (Independent Study - supervised by Anthropology faculty)

ANTH 4340 (may be repeated, if topic varies)

Sociology Courses (SOCl)

1301	Introduction to Sociology Sociology as a field of knowledge. Basic terms, concepts, theories of sociology applied to an explanation of human behavior, personality, groups and society.	3:3:0
1306	Social Problems Attributes of society and of persons which are subjects to disapproval; the causes, extent and consequences of problems; programs and prospects for their resolution.	3:3:0
2301	Marriage and the Family Characteristics of and problems within courtship, marriage and family in American society.	3:3:0
2326	Social Psychology Social and cultural influences upon individual behavior and personality; interpersonal and intergroup relations and collective behavior.	3:3:0
2375	Class, Status, and Power Examination of social inequality and differentiation with emphasis on social classes, status groups, and social mobility.	3:3:0
3301	Integrated Social Studies I This course facilitates excellence in teachers by exploring the interdisciplinary study of integrated social studies curricula including history, geography, economics, government, citizenship, culture, and science, technology, and society. <i>Prerequisite: Completed core course; admission to teacher education program/for Interdisciplinary Studies Majors Only</i>	
3302	Integrated Social Studies II Focuses on development of strategies, methods, and skills needed to teach integrated social studies curricula including history, geography, economics, government, citizenship, culture, and science, technology, and society. <i>Prerequisite: Completed SOCl 3301/for Interdisciplinary Studies Majors Only</i>	
3306	Race and Ethnic Relations Racial and ethnic minority groups within the society; causes, distinctions and changes in the relationship between minority and dominant groups.	3:3:0
3310	Sociology of Gender Analysis of the origin and social development of gender roles. Examination of changing roles for males and females and their impact on interpersonal relationships and societal institutions.	3:3:0
3311	Medical Sociology A study of medicine as a social institution with emphasis on social organization and interaction patterns.	3:3:0
3330	Urban Sociology Social and ecological processes in the urbanization movement; characteristics of urban society and culture.	3:3:0
3350	The Family Structural and functional characteristics of the family as a basic institution.	3:3:0
3360	Honors Human Nature and the Human Condition Attributes of society and of persons which are subject to disapproval; the causes, extent and consequences of problems; programs and prospects for their resolution. Designed especially for honors students. <i>Prerequisite: Departmental approval.</i>	3:3:0
3370	Sociology of Sport Examination of the social aspects of sport and how sport is a microcosm of American society. Major issues to be studied include racial and sexual discrimination, violence, and sport as big business.	3:3:0
3380	Criminology Extent of and explanation for crime in American society; agencies dealing with crime and criminals; programs for control and prevention of crime and delinquency.	3:3:0
3390	Juvenile Delinquency The nature, incidence and explanations for juvenile delinquency in American society; agencies and programs for prevention and control of juvenile delinquency.	3:3:0
4110	Proseminar in Sociology Detailed examination of the profession of sociology. Topics include career opportunities, application of theories and research, program assessment, and professional ethics. <i>Prerequisite: Senior standing in sociology</i>	
4300	Seminar in Sociology Basic concepts and general principles of sociology as applied to the study of selected topics. The course may be repeated for credit when the designated topics are varied.	3:3:0
4301	Directed Studies in Sociology Individual study with an instructor in an area of mutual interest. May be repeated for credit when topic varies.	3:A:0
4310	Population Problems The growth and composition of population with emphasis on social, economic and political problems.	3:3:0
4320	Sociology of Education Multicultural influences on the school system and the democratic society. Included will be an analysis of educational problems in the multicultural society of Texas.	3:3:0

4340	Social Change and Movements Nature, sources, and effects of contemporary social changes with emphasis on social movements as causes and consequences of change.	3:3:0
4350	Sociology of Religion Religion as a social institution in contemporary America; development of religious systems; cultural, social and individual functions of religion.	3:3:0
4380	Research Methods The logic, design, techniques and problems involved in social scientific research.	3:3:0
4390	Social Theory Major sociological theorists and theories.	3:3:0

Social Work Courses (SOWK)

2361	Introduction to Social Work An overview of the knowledge, values, and skills for generalist practice with individuals, families, groups, organizations, and communities. Social work intervention with diverse populations and populations at risk in various fields of practice is emphasized within the context of the history and development of the profession of social work and the social welfare institution. Volunteer component included.	3:3:0
2371	Survey of the Social Welfare Institution History of social work and the social welfare institution with emphasis on the current structure of social welfare. The course examines the social welfare institution's response to those in need, especially the vulnerable members of society. Examination of the major social welfare policies and programs which impact all members of society.	3:3:0
3300	Human Behavior in the Social Environment I This is the first of two courses presenting theories and research on human behavior in the social environment from ecological systems, strengths and empowerment perspectives. The reciprocal relationship and impact of the family, community and society on human behavior and development throughout the life cycle will be explored, with emphasis on birth through adolescence. <i>Corequisite: SOWK 3310</i>	
3310	Social Work Practice I First in a three course generalist practice sequence. A strengths/empowerment approach utilized for multi-levels of intervention with a focus on the knowledge, values, and skills for culturally sensitive practice with diverse populations and populations at risk. Emphasis on the profession's value orientations as reflected in the NASW Code of Ethics. <i>Prerequisite: SOWK 2361, 2371.</i> <i>Corequisite: SOWK 3300</i>	3:3:0
3320	Human Behavior in the Social Environment II Continuation of SOWK 3300. Focus: Young adulthood through later adulthood. <i>Prerequisite: SOWK 3300.</i> <i>Corequisite: SOWK 3330</i>	3:3:0
3330	Social Work Practice II Second in a three course generalist practice sequence. This course utilizes systems/ecological systems, empowerment and strengths perspectives to provide the knowledge, values, and skills necessary for practice with individuals, families, and groups in the context of cultural diversity and the need for culturally sensitive practice. <i>Prerequisite: SOWK 3310</i> <i>Corequisite: SOWK 3320</i>	3:3:0
3340	Social Welfare Policy and Services Analysis of social welfare policy at local, state, national, and international levels. Emphasis on the analysis of the impact of social welfare policy on society and vulnerable populations. The course stresses the effects of policy upon social services, social work practice and the profession's role of advocacy for policy change. <i>Prerequisite: SOWK 2361</i>	3:3:0
3350	Social Work Practice III Third practice course in the sequence, this course covers the generalist perspective for social work practice with focus on assessment and intervention with organizations and communities. Emphasis on developing, analyzing, advocating and providing leadership for policies and services. Course includes content on administration and supervision in social service agencies. <i>Prerequisite: SOWK 3330</i>	

- 3360 Promotion of Social and Economic Justice**
From a socio-historical perspective, students acquire a knowledge and understanding of how prejudice and discrimination contribute to social and economic inequality, oppression, and social injustice as experienced by diverse cultural groups and populations at risk. Strategies to combat social injustice from a micro-macro focus are emphasized.
Corequisites: SOWK 3320, 3330, 4380 1-3:A:0
- 4300 Special Topics in Social Work**
Topics in various areas in social work and social service. May be repeated for credit.
Prerequisite: Consent of instructor. 3:3:0
- 4320 Seminar**
Current topics in social work practice. May be repeated for credit when topics vary.
- 4380 Social Work Research Methods**
Content on qualitative and quantitative methodologies to build knowledge for social work practice. Preparation to develop, use, and communicate empirically based knowledge, including evidence-based interventions. Focus on evaluation of social work practice to ensure competence based social work practice.
Corequisite: SOWK 3330
- 4321 Field Practicum I**
Field Practicum provides supervised experience in community social service agencies in which students apply knowledge, values and ethical principles, and develop generalist social work practice skills. Educational and professional supervision is provided by faculty and social workers in the agencies. The course includes a three hour weekly seminar to provide integration of theory into practice based on field practicum experiences.
Prerequisites: Consent of field placement coordinator and completion of SOWK 2361, 2371, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 4320, 4380.
- 4324 Field Practicum II**
Continuation of SOWK 4321.
Prerequisite: SOWK 4321 and consent of field placement coordinator.

Criminal Justice Courses (CRIJ)

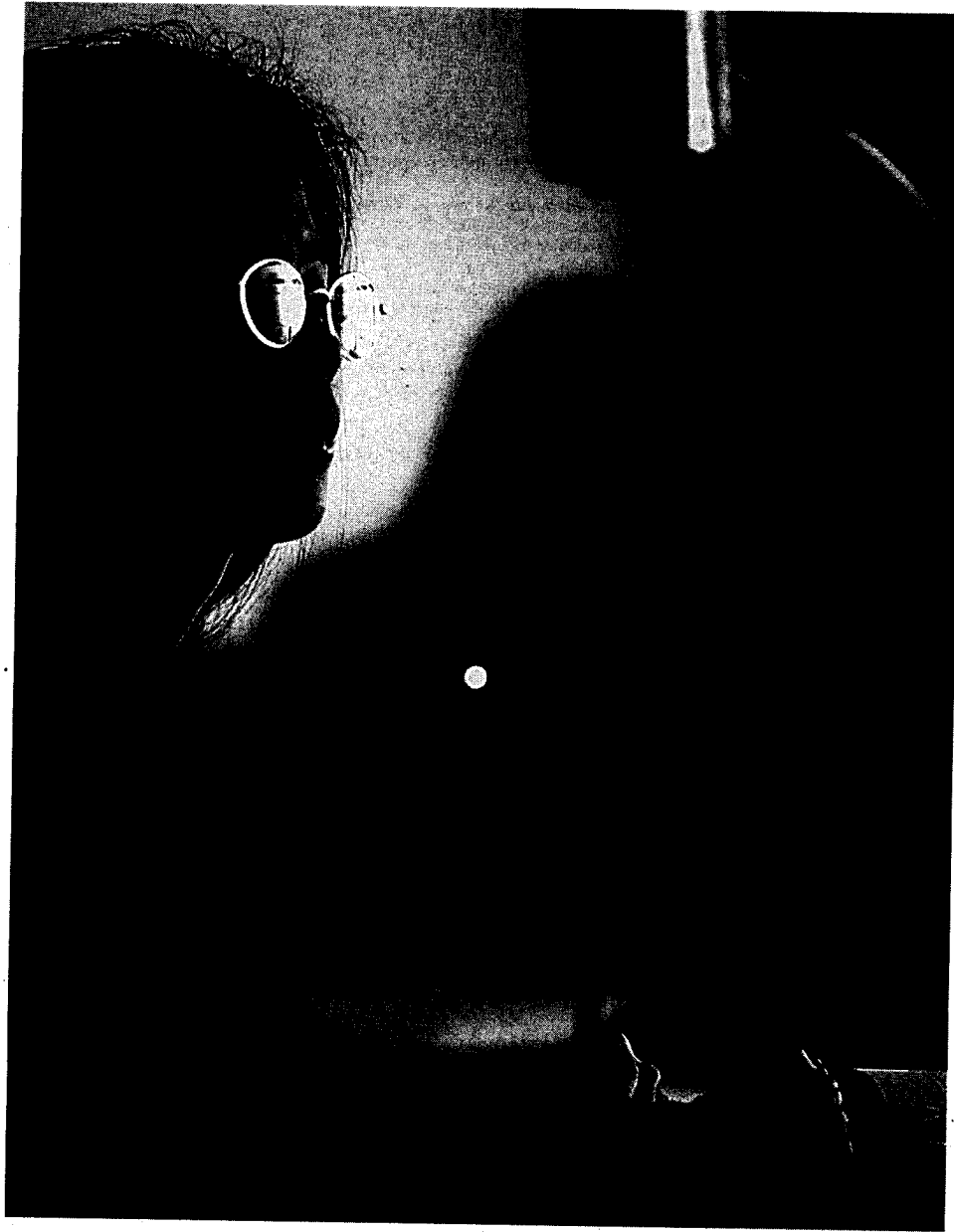
- 1301 Introduction to Criminal Justice** 3:3:0
History and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of criminal justice system; law enforcement; court system; prosecution and defense; trial process; corrections.
- 1306 Court System and Practices** 3:3:0
The judiciary in the criminal justice system; structure of the American court system; prosecution, right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence; sentencing.
- 1310* Fundamentals of Criminal Law** 3:3:0
Study of criminal law, its philosophical and historical development and concepts, classifications and elements of crime, penalties using Texas statutes as illustrations, and criminal responsibility.
- 2301 Community Resources in Corrections** 3:3:0
An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.
- 2313 Correctional Systems and Practices** 3:3:0
Corrections in the criminal justice system; organization of correctional systems; correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues.
- 2314 Criminal Investigation** 3:3:0
Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation.
- 2328 Police Systems and Practices** 3:3:0
The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues.
- 3300 Advanced Criminal Law** 3:3:0
In-depth examination of principles of substantive criminal law with emphasis on Texas penal statutes and case law.

- 3304 Interpersonal Effectiveness** 3:3:0
Skills and attitudes needed by the criminal justice professional to successfully interact with clients and colleagues. Personal planning; time management; communication skills; win-win problem solving techniques.
- 3309 Class, Race and Gender** 3:3:0
Role of social class, race and gender in the etiology and control of crime. Injustices within the criminal justice system and broader society. Cultural sensitivity.
- 3310 Criminal Procedure and Evidence** 3:3:0
In-depth examination of laws of criminal procedure with emphasis upon Texas procedural laws; rules of evidence; recent state and federal case law in fields of criminal procedure and evidence.
- 3311 Crime and Criminals** 3:3:0
American crime problems in historical perspective; social and public policy factors affecting crime, impact and crime trends; liberal and conservative views of the crime problem and policy implications; crime prevention.
- 3320 Counseling** 3:3:0
Basic counseling techniques for dealing with troubled individuals. Communication skills; crisis intervention.
- 3330 Counseling Practicum** 3:3:0
Supervised counseling practice in a criminal justice setting.
Pre or co-requisite: CRJF 3320.
- 3350 Juvenile Justice System** 3:3:0
A study of the juvenile justice process to include specialized juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency.
- 3380 Correctional Law** 3:3:0
Legal aspects of correction; rights of the convicted. Laws governing correctional officers and facilities. Legal liabilities in correctional activities.
- 4101, 4201, 4301 Directed Studies in Criminal Justice** 13:A:0
Individual study with an instructor in an area of mutual interest. May be repeated for credit when the designated topics are varied.
Prerequisite: Consent of instructor.
- 4300 Legal Research, Brief Writing and Oral Advocacy** 3:3:0
Preparation of appellate brief on assigned point of law; presentation of appellate oral argument.
- 4310 Social Justice** 3:3:0
Theories of justice; relationship of justice to freedom and democracy; injustices in social class, gender, and race relationships.
- 4311 Ethical Issues in Criminal Justice** 3:3:0
An examination of selected ethical issues and problems confronting criminal justice professionals.
- 4313 Contemporary Issues in Criminal Justice** 3:3:0
Current topics in criminal justice. May be repeated for credit when the topic is varied.
- 4320 Seminar in Correctional Programs** 3:3:0
Overview of programs in institutional and noninstitutional agencies; examination of such programs based upon various correctional theories.
- 4321 Responses to Crime** 3:3:0
A study of contemporary thought on crime, criminals, and the criminal justice system using critical analysis of recently written materials as a source for research, discussion, and student seminar.
Prerequisite: Junior standing.
- 4323 Federal Corrections** 3:3:0
A study of the history, development, and current status of corrections in the federal sector.
- 4330 Police Problems** 3:3:0
Advanced analysis of major contemporary police problems from various perspectives. Examination of current issues in policing.
- 4340* Criminal Justice Applications** 3:A:0
Application of principles learned in the classroom to a non-classroom setting. Requirements for this course may be satisfied through a special project or internship. May be repeated for credit.
Prerequisite: Consent of instructor.
- 4350 Criminal Justice Administration** 3:3:0
Problems and issues in the administration of criminal justice organizations.
- 4370 Conflict Resolution** 3:3:0
Elements of conflict, from interpersonal to international. Concepts and skills needed to intervene in conflict situations; mediation techniques. Emphasis on situations confronting criminal justice officials.

Anthropology Courses (ANTH)

- 2302 **Archaeology** 3:3:0
An overview of the science of the human past, introducing the basic methods and theories utilized by modern archaeologists in their reconstruction of human prehistory.
- 2346 **Introduction to Anthropology** 3:3:0
A general survey of the three main fields of anthropology — physical anthropology, cultural anthropology, and archaeology. Emphasis is on the holistic approach of anthropology to the study of mankind in all times and places.
- 2351 **The Nature of Culture** 3:3:0
An exploration of that uniquely human adaptation known as "culture." Subject matter will include evidence for cultural behavior in nonhuman primates, as well as language and communication, mythology and narrative, arts and music, play and humor in human societies around the world.
- 2372 **Ethnic Heritage** 3:3:0
An examination of the cultural heritage of the major ethnic groups of contemporary American society—Afro-American, Hispanic-American, or Euro-American. (Only one group will be covered each time the course is taught; contact department for current offering.)
- 3310 **Family and Society** 3:3:0
Examines the organization and function of the family in societies around the world. This class takes a life-course perspective on the family, exploring the individual experience of family life from conception through death.
- 3340 **Political Anthropology** 3:3:0
Examines the evolution of political systems and political relations in human societies, drawing upon the knowledge that anthropologists have accumulated through studies of nonhuman primate societies, prehistoric civilizations, and tribal societies of contemporary and recent times.
- 4340 **Topics in Anthropology** 3:3:0
Selected special topics in the major research fields of contemporary anthropology. The course will focus on current literature and will involve the student in a research project. This course may be repeated for credit when the topic varies.

* Pending approval by the Texas Higher Education Coordinating Board



College of Business faculty and curricula equip students with skills that support problem-solving, teamwork and an entrepreneurial spirit.

College of Business

Departments: Accounting and Business Law, Economics and Finance, Information Systems and Analysis, Management and Marketing

Enrique R. Venta, Dean

**232 Galloway Business Bldg.
Phone 880-8603**

Associate Dean, MBA Program

**232 Galloway Business Bldg.
Phone 880-8604**

**Russ Waddill, Executive Director of
Institute for Entrepreneurial Studies**

**231 Galloway Business Bldg.
Phone 880-8436**

Sarah F. Hawes, Coordinator of Advising Center

**120 Galloway Business Bldg.
Phone 880-8607**

The University established the College of Business in 1972. Prior to this time, degrees in business and economics were granted by the Division of Business, which was established in 1951, and the School of Business, established in 1954. All undergraduate and graduate degree programs of the College of Business are accredited by AACSB International.

Four departments—Accounting and Business Law; Economics and Finance; Information Systems and Analysis; and Management and Marketing—make up the College of Business. The Bachelor of Business Administration degree is granted in all areas. A Bachelor of Science degree is granted in Economics.

The Master of Business Administration degree program also is offered. Details may be found in the Graduate Bulletin.

Mission

The mission of the College of Business at Lamar University is to provide quality undergraduate and graduate business education in Southeast Texas to a diverse student population and thereby meet the needs of employers operating in a global environment characterized by rapid technological change.

The primary responsibility of the College is undergraduate education, wherein we prepare students for entry and mid-level managerial/professional positions, entrepreneurial roles and lifelong learning.

The College also offers a quality M.B.A. program designed primarily for working professionals. The M.B.A. program produces managers/professionals capable of innovative problem solving, decision-making and leadership.

Degrees Offered

The Bachelor of Business Administration curriculum consists of three distinct phases: business core, major specialization, and electives.

The business core requirements are patterned to develop an understanding of the social, legal, political, economic and global frameworks within which business organizations exist and operate. A common body of fundamental business and economic theory and principles is also represented in the business core. These theories and principles are developed along with certain basic quantitative tools of analysis and communication skills as preparation for the specialized major courses. Understanding of the interaction of all areas and functions of business operations is the objective of the core courses required of all business graduates.

The major specialization provides opportunities for study in a particular field of interest. This specialized study should enable a graduate to assume a position of responsibility in business, public service or education.

Finally, the student may choose electives that complement and supplement the specialization area.

The Bachelor of Business Administration degree will be awarded upon completion of the University core curriculum (p. 15) plus

- I. Business core courses (57 semester hours)*:
ECON 2301, 2302 Principles of Economics
MATH 1314 College Algebra
MATH 1325 Elements of Analysis for Business Applications
BULW 1370 Business Environment and Public Policy
MISY 1373 Intro Software Tool Kit
ACCT 2301, 2302 Principles of Accounting
BUAL 3310, 3320 Business Analysis I & II
MISY 4360 Management Information Systems
BULW 3310 Business Law
ECON 3340 Macro Economics **or**
ECON 3390 Managerial Economics
FINC 3310 Principles of Finance
MGMT 3310 Principles of Organizational Behavior & Mgmt
MKTG 3310 Principles of Marketing
OFAD 3350 Business Communications
MGMT 3320 Production Management
MGMT 4370 Strategic Analysis in a Digital Global Economy
- II. Major Specialization (18-28 semester hours)
- III. Approved electives to complete a minimum of 120 semester hours
- IV. A minimum grade point average of 2.00 in all College of Business coursework
- V. A minimum cumulative grade point average of 2.00
- VI. Application for the degree must be made through the Office of the Chair of the department of the student's major.

**Slightly different business core requirements exist for Economics majors. See Department of Economics and Finance in this catalog.*

Accounting Major (28 semester hours)

ACCT 3470 Sys & Prac Appl
 ACCT 3310, 3320 Inter Acct
 ACCT 3330 Spec Acct Topics
 ACCT 3340 Cost Acct
 ACCT 3380 Tax Acct I
 ACCT 3390 Tax Acct II
 ACCT 4300 Intro to Auditing
 ACCT 4310 Adv Acct

Economics Major (24 semester hours)

ECON 3330 Inter Theory
 ECON 3320 Money & Banking
 ECON 3340 Macro
 ECON 3390 Managerial Economics
 ECON electives 12 sem. hours

Finance Major (21 semester hours)

FINC 3320 Intermediate Financial Management
 FINC 4310 Investments
 FINC 4320 Financial Markets
 FINC 4330 Commercial Banking
 Professional Track Elective
 Professional Track Elective
 Professional Track Elective

**Management Information Systems Major
(24 semester hours)**

MISY 3310 IS Theory & Practice
 MISY 3320 IS Hardware/Software
 MISY 3340 Network/Telecomm
 MISY 3350 JAVA Development or MISY 3360
 Visual BASIC
 MISY 3370 IS Analysis & Design
 MISY 4350 Project Management
 MISY 4380 IS Development
 MISY elective

Management Major (21 semester hours)

ACCT 3340 Cost Accounting
 MKTG 4310 Marketing Management
 MGMT 3330 Personnel Management
 MGMT 4310 Budgetary Control
 MGMT 4320 Organizational Behav
 MGMT 4340 Productivity Management
 MGMT 4380 Seminar on Entrepreneurship

Marketing Major (21 semester hours)

MKTG 4310 Marketing Management
 MKTG 4330 International Mkt
 MKTG 4360 Marketing Research
 MKTG 4370 Adv Marketing Problems
 MKTG 3360 Consumer Behavior
 MKTG 3350 E-Marketing
 MKTG 4340 Marketing Promotion

General Business Major (18-24 semester hours)**Business Concentration**

ACCT 3340 Cost Accounting or
 ACCT 3380 Taxation Accounting
 FINC 3320 Financial Analysis
 MGMT 3330 Personnel Management
 MKTG 4310 Marketing Management
 MGMT 4380 Seminar on Entrepreneurship
 OFAD 4310 Office Management

Advertising Communication Concentration

ARTS 2331 Visual Design I
 ARTS 3351 Desktop Design
 ARTS 4343 Computers in Art I
 ARTS 4353 Computers in Art II
 MKTG 4340 Marketing Promotion
 Communications Course

Entrepreneurship Concentration

ACCT 3340 Cost Accounting
 FINC 3320 Financial Analysis
 MGMT 3330 Personnel Management
 ECON 3310 Economics of Entrepreneurship
 MKTG 4350 Entrepreneurial Marketing
 MGMT 4380 Seminar on Entrepreneurship

Industrial Engineering Concentration

INEN 3300 INEN—An Introduction
 INEN 3330 Engineering Economy or INEN 3322
 Engineering Materials and Processes
 INEN 3380 Work Design
 INEN 4301 Quality Control Applications
 INEN 4316 Industrial and Product Safety or
 INEN 4369 Engineering Management
 INEN 4374 Human Factors Engineering, INEN
 4376 Occupational Ergonomics or INEN 4379
 Facilities Design

Retail Merchandising Concentration

FCSC 1320 Textiles
 FCSC 3306 Product Merchandising
 FCSC 4320 Fashion History
 FCSC 3370 Fashion Promotion and Advertising
 FCSC 4340 Fashion Production and Distribution
 MKTG 3320 Principles of Retailing

Human Resources Management

(21 semester hours)
 MGMT 3330 Human Resource Management
 MGMT 4320 Advanced Organizational Behavior
 MGMT 4330 Issues in Human Resources
 MGMT 4340 Quality & Productivity Management
 PSYC 3360 Psy Tests and Measurements
 BULW 3320 Employment Law
 OFAD 4310 Office Administration

The **Bachelor of Science** degree in economics will be awarded upon completion of the following requirements:

- I. The specific course requirements as set forth by the department (see Department of Economics and Finance in this bulletin)
- II. A minimum grade point average of 2.00 in all College of Business courses
- III. A minimum cumulative grade point average of 2.00
- IV. A minimum of 123 semester hours
- V. A minimum of 30 semester hours in the field of economics
- VI. A minor of 18 semester hours, twelve of which must be 3000 or 4000 level courses

Regardless of degree program, all students must earn at least 50 percent of the business credit hours required for any College of Business degree at Lamar University.

Requirements for the **Master of Business Administration** degree are given in detail in the Graduate Bulletin.

Admission to the College of Business

All newly entering Freshmen who meet the University's general entrance requirements will be admitted to the College of Business.

Minor Program in Business

Non-business students may minor in business but without any specialized field of study. Such students should complete ECON 1301, ACCT 2301 and 2302, FINC 3310, MGMT 3310, MKTG 3310, and MISY 4360. **One** of the following courses must also be completed: BULW 3310, 3320, 3330, 3340, ECON 3310, MGMT 3320, or 3330. In keeping with the spirit of a Minor, the students must have less than 25 percent of their total curriculum in Business subjects. This 25 percent restriction also applies to all students who are not registered for a major in the College of Business, but who wish to have any kind of a business emphasis or concentration.

Prerequisite Policy – College of Business

Students registering for business courses must meet all course prerequisites, including the implicit prerequisite indicated by the course level. The chair of the department offering the course must approve any exceptions.

2000 level courses – Student must have 30 hours*

3000 level courses – Student must have 60 hours*

4000 level courses – Student must have 90 hours*

* These hours include the hours in which a student is currently enrolled.

Department of Accounting and Business Law

Department Chair: Howell J. Lynch 235 Galloway Business Bldg., Phone 880-8610

Professors: Cavaliere, Lynch, Mulvaney, Swerdlow, Veuleman

Associate Professor: Varick

Assistant Professors: Moss, Sullivan

Professor Emeritus: R. W. Jones

Objectives

The principal objective of the department is to develop in the student the knowledge, intellectual abilities, values, attitudes, skills and leadership qualities needed:

1. to perform effectively in an entry-level position on an accounting track in business, government, education, or other fields and to advance to levels of increasing responsibility.
2. to grow and to develop as an individual both professionally and personally.
3. to become a contributing member of society.

The attainment of this objective requires successful teaching, research and service from the accounting faculty.

Requirements for Becoming an Accounting Major

1. Present an SAT Score.
2. Completion of ACCT 2301 (minimum grade of "B") and Acct 3470 [minimum grade of "C"]. Transfer students must meet the equivalent of the above requirements.

Requirements for Graduation

In addition to the College of Business degree requirements, the accounting major must earn a minimum grade of "C" in each accounting course attempted. Students pursuing this degree program must take all professional courses at Lamar University.

150-Hour Program

Beginning with the May 1998 CPA Exam, a candidate in Texas is required to have completed 150 semester hours of coursework. The BBA degree in this catalog will not meet this requirement. Students wishing to sit for the CPA Exam should plan to take additional hours to satisfy this exam requirement. One way to satisfy the requirement and receive a graduate degree is to complete the MBA degree with Accounting Emphasis (refer to the Graduate Catalog for additional information).

Bachelor of Business Administration – Accounting Major

Suggested Program of Study

Freshman Year

First Semester	Second Semester
ENGL 13013	ENGL 1302, 13743
BULW 1370 Bus Env & Pub Policy3	MISY 1373 Intro to Microcomputers3
MATH 13253	ECON 23013
ECON 23023	Non-business Elective3
Lab Science4	Lab Science4
PEGA1	
17	16

Sophomore Year

First Semester	Second Semester
PHIL 13703	Fine Arts3
HIST 13013	HIST 13023
POLS 23013	POLS 23023
ACCT 2301 Intro to Fin Acct3	ACCT 3470 Sys & Practice Appl4
Soph Lit3	COMM 33103
15	16

Junior Year

First Semester	Second Semester
ACCT 3310 Intermediate I3	ACCT 3320 Intermediate II3
ACCT 3380 Tax I3	FINC 3310 Prin of Fin3
MGMT 3310 Prin of Org Bhav & Mgt3	MGMT 3320 Production3
BUAL 3310 Bus Analysis I3	BUAL 3320 Bus Analysis II3
ACCT 3340 Cost3	OFAD 3350 Bus Com3
15	15

Senior Year

First Semester	Second Semester
ACCT 3330 Governmental3	ACCT 4300 Intro to Auditing3
BULW 3310 Business Law3	ACCT 4310 Advanced3
MKTG 3310 Prin of Mkt3	MGMT 4370 Strategic Mgmt.3
MISY 4360 Mgt Info Sys3	Non-business elective3
ECON 3340 or 33903	
15	12

Accounting Courses (ACCT)

- 2301 Intro to Financial Acct** 3:3:0
Concepts of financial accounting. Emphasis is on the conceptual framework of accounting and the preparation and uses of financial statements.
- 2302 Intro to Managerial Acct** 3:3:0
This course is designed for non-accounting majors. Uses of accounting information in managerial planning, decision making, and control. Includes study of cost behavior, cost-volume-profit analyses, and budgeting.
Prerequisite: ACCT 2301 with a minimum grade of "C".
- 3310 Intermediate Accounting I** 3:3:0
Analysis of theory and its applications in the areas of cash, temporary investments, receivables, inventories, plant and intangible assets, long-term investments, current liabilities and revenue recognition.
Prerequisite: ACCT 2301 with a minimum grade of "B" and ACCT 3470 with a minimum grade of "C".
- 3320 Intermediate Accounting II** 3:3:0
Continuation of ACCT 3310 with emphasis on long-term debt, short-term liabilities, leases, pensions, owner's equity and earnings per share.
Prerequisite: ACCT 3310 with a minimum grade of "C".
- 3330 Governmental Accounting** 3:3:0
Primary emphasis on governmental accounting and accounting for not-for-profit organizations. Also includes Statement of Cash Flows.
Prerequisite: ACCT 3310 with minimum grade of "C".
- 3340 Cost Accounting** 3:3:0
Cost accounting with a managerial emphasis: Job order and process cost; standard cost and variance analysis; budgetary control; relevant costing for decision making; capital budgeting.
Prerequisite: ACCT 2302 or ACCT 3470 with minimum grade of "C".
- 3380 Taxation Accounting I** 3:3:0
Provisions of the income tax code as applied to individuals: taxable income; gains and losses; capital gains; dividends; expenses; itemized deductions; depreciation; losses; and credits.
Prerequisite: ACCT 2301 with minimum grade of "C".
- 3390 Taxation Accounting II** 3:3:0
Provisions of the income tax code as applied to proprietorships, partnerships, estates, trusts and corporations; reorganizations; filing returns; refunds; social security taxes; estate taxes; gift taxes.
Prerequisite: ACCT 2301 with minimum grade of "C"; strongly recommended that ACCT 3380 be completed.
- 3470 Systems & Practice Applications** 4:3:2
An intensive examination of manual and computer accounting systems. Students will use extensive manual and computer practice sets.
Prerequisite: ACCT 2301 with minimum grade of "B".
- 4170 Planning for Retirement** 1:1:0
This course is intended for persons who plan to retire within the next five years and for those who are planning later retirement who wish to maximize benefits and flexibility.
- 4300 Introduction to Auditing** 3:3:0
Introduction to the theory of auditing, with emphasis on generally accepted auditing standards (GAAS) and the profession's Statements on Auditing Standards. Understanding of the types of reports issued by auditors and the circumstances which would occasion the issuance of each. Also, discussion of the role of internal auditors and operational and compliance audits.
Prerequisites: ACCT 3320 and ACCT 3470 with minimum grade of "C" in each course.
- 4310 Advanced Accounting** 3:3:0
Analysis of special problems and theories relative to corporate mergers and acquisitions; consolidated financial statements; and partnerships. A major team research project and oral presentation is required.
Prerequisite: ACCT 3320 with minimum grade of "C".
- 4370 Special Problems** 3:3:0
This course is intended for the examination of new or special accounting problems under direction of a faculty member and through internships. A participant may repeat the course when the topic differs significantly from previous enrollment.
Prerequisites: Senior standing and approval of the department chair.

Business Law Courses (BULW)

- 1370 Business Environment and Public Policy** 3:3:0
Survey course emphasizing interaction of business with its external and internal environments. Introduction to public policy process and issues with focus on ethical and moral considerations. Recommended for freshmen, especially business majors.
- 3310 Business Law** 3:3:0
A survey of the legal environment and its impact upon business. Nature and sources of law, administrative and enforcement agencies, and governmental regulations. Students become aware of the legal framework of common business transactions.
- 3320 Employment Law** 3:3:0
Historical interpretations and present provisions of regulations governing labor. Common law; state and federal statutes; Fair Labor Standards Act; Worker's Compensation; Social Security; liability; United States Department of Labor; social legislation; fair employment practices.
- 3330 Environmental Law** 3:3:0
A survey of the environmental, health and safety laws and their impact on business. Social policy and legal framework, administrative and enforcement agencies, judicial interpretation. Students become aware of the positive aspects of "green" business and business' social responsibility toward the environment, in addition to the potential civil and criminal liability for noncompliance with the law.
- 3340 Business Ethics** 3:3:0
An introduction to ethical decision-making in business. An examination of individual, organizational, and macro-level issues in business ethics. Both descriptive and normative models of unethical and ethical decision making in business are analyzed to assist the student as a potential business person to make more informed ethical decisions.
- 4340 Advanced Legal Principles** 3:3:0
Detailed study of applicable statutes and other laws governing sales, real property, bankruptcy, forms of business enterprise (corporations and partnerships), insurance and documents of title.
- 4350 Estate Planning Fundamentals** 3:3:0
A survey of the federal and state laws dealing with the estates of individuals, including living trusts, estate tax-saving trust, charitable trusts, spendthrift trusts, providing for children, avoiding probate, minimizing estate taxes, second marriages, protecting businesses at death, gifts, wills, and living wills.
- 4370 Administrative Internship** 3:3:0
Experiential learning in a business or professional setting with career-related assignments and projects under the guidance of a faculty member. (Because of a limited number of placement opportunities, applicants are not guaranteed an assignment; thus, assignments are competitive.)
Prerequisites: 2.5 minimum grade point average and pre-registration consent of instructor
- 4380 Real Estate Law** 3:3:0
Survey of real property law, including types of ownership interests, methods of acquiring title (deeds, probate, gift), usage of these records, leases, mortgage instruments, and regulation of land use.
Prerequisite: BULW 3310
- 4390 Special Topics in Business Law** 3:0:0
Intensive investigation of topics in business law. Library and/or laboratory research and conferences with supervising faculty member. May be repeated when area of study differs.
Prerequisite: approval of instructor and department chair

Department of Economics and Finance

Department Chair: C. F. Hawkins 240 Galloway Business Bldg., Phone 880-8647

Professors: Allen, Bacdayan, Brust, Choi, Hawkins, Montano, Moss, Price

Assistant Professor: Blaylock

Adjunct Instructor: Aubey

Economics

Two degrees are offered in Economics:

Bachelor of Business Administration: Recommended to the student who desires a thorough grounding in business courses to augment the Economics knowledge which is necessary for understanding the complexities of modern business, government and nonprofit organizations.

Bachelor of Science: Recommended to the student particularly interested in working abroad, seeking the Doctor of Philosophy degree or desiring a supportive minor in another interest area such as mathematics, sociology, government, education, or computer science.

Representative employment opportunities for both degrees are found in banking, government, industrial relations, management, research and forecasting, communications, international trade and sales.

Finance

The Finance program provides the student with a broad education in financial markets and institutions, in investments, and in the financial management of organizations. Electives can be selected to provide an emphasis in insurance, in real estate, in financial planning, or in financial management. Finance graduates are qualified for careers in banking or other financial institutions, stock brokerage firms, in the growing financial services industry, and in the financial division of major organizations.

Teacher Certification – Economics

For details concerning requirements for teacher certification and information on professional courses, consult the College of Education and Human Development section in this catalog.

Suggested Programs of Study**Bachelor of Business Administration – Economics Major**

First Year		Second Year	
ECON 2302, 2301 Principles	6	ACCT 2301, 2302 Principles	6
ENGL Comp	6	ENGL Lit	3
MATH 1325 Math for Bus Anal	3	POLS 2301, 2302	6
Lab Science	8	American History	6
MISY 1370 Intro to Microcomputers	3	Comm	3
PHIL 1370 Phil of Knowledge	3	Fine Arts	3
PEGA	1	Elective.....	6
Elective	3		
	<u>33</u>		<u>33</u>
Third Year		Fourth Year	
OFAD 3350 Bus Comm	3	ECON 3320 Money and Banking	3
FINC 3310 Prin of Finance	3	MGMT 3310 Prin of Org Beh & Mgt	3
MKTG 3310 Prin of Marketing	3	MGMT 3320 Prod Management	3
BUAL 3310, 3320 Bus Analysis	6	MGMT 4370 Strategic Analysis	3
ECON 3330 Inter Theory	3	BULW 3310 Bus Law	3
ECON 3340 Macro Economics	3	MISY 4360 Mgt Info Sys	3
ECON 3390 Managerial Economics	3	*Electives	12
*Electives	9		
	<u>30</u>		<u>30</u>

*Electives must include nine semester hours of advanced courses in economics, and six semester hours of approved, advanced electives.

Bachelor of Science – Economics Major

First Year		Second Year	
ECON 2302, 2301 Prin	6	ACCT 2301, 2302 Principles	6
ENGL Comp	6	ENGL Lit	3
MATH 1325 Math for Bus Anal	3	American History	6
Lab Science	8	POLS 2301, 2302	6
PEGA	1	Fine Arts	3
PHIL 1370 Philosophy of Knowledge	3	Comm	3
MISY 1370 Intro to Microcomputers	3	Elective	6
	<u>30</u>		<u>33</u>
Third Year		Fourth Year	
OFAD 3350 Bus Comm	3	ECON Colleges (Advanced Level)	18
ECON 3330 Inter Theory	3	Minor Courses (Advanced Level)	12
ECON 3340 Macro Eco	3		
BUAL 3310, 3320 Bus Analy	6		
Minor Courses	6		
Advanced Elective (3000 or 4000 Level)	9		
	<u>30</u>		<u>30</u>

Bachelor of Business Administration – Finance Major

First Year

First Semester	Second Semester
BULW 1370 Bus Environ and Public Policy3	ENGL Comp3
ENGL Comp3	ECON 23023
ECON 2301 Principles3	MISY 1370 Intro to Microcomputers3
Lab Science4	Math 1325 Elements of Anal for Bus or MATH 2377 Calculus II3
PEGA1	PHIL 1370 Phil of Knowledge3
Elective3	
17	15

Second Year

First Semester	Second Semester
Lab Science4	Comm3
American History3	ENGL Lit3
ACCT 2301 Principles3	American History3
POLS 23013	ACCT 2302 or 34703
Fine Arts3	POLS 23023
	Elective3
16	18

Third Year

First Semester	Second Semester
BUAL 3310 Bus Analysis I3	BUAL 3320 Bus Analysis II3
BULW 3310 Bus Law3	FINC 3320 Intermediate Financial Management ..3
FINC 3310 Prin of Finance3	FINC 4310 Investments3
MKTG 3310 Prin of Marketing3	MGMT 3310 Prin of Org Beh & Mgt3
OFAD 3350 Bus Comm3	*Professional track elective.....3
15	15

Fourth Year

First Semester	Second Semester
ECON 3340 Macro Econ3	MISY 4360 Mgmt Information Systems3
FINC 4320 Fin Markets and Institutions3	FINC 4330 Commercial Banking3
MGMT 3320 Prod Management3	MGMT 4370 Strategic Analysis3
*Professional track elective.....3	*Professional track elective.....3
***Elective (College of Business 3000 or 4000 Level).....3	***Elective (College of Business 3000 or 4000 Level).....3
15	15

*Professional electives selection requires approval of the department chair.

**The faculty advisor should be consulted by the student to select electives that will be most beneficial in terms of career goals.

Economics Courses (ECON)

- 1301 Principles and Policies** 3:3:0
Comprehensive introduction to economic principles and problems for non-business students. Resource utilization; price determination; distribution of income; fiscal and monetary problems; economic growth.
- 2301 Principles (Macro)** 3:3:0
Emphasizes monetary theory; national income analysis; fluctuation and growth; public finance; international trade; and current economic problems.
- 2302 Principles (Micro)** 3:3:0
Introduction to economic principles; allocation of resources; determination of output and prices; distribution; and managerial economics.
- 3310 Economics of Entrepreneurship** 3:3:0
Comprehensive analysis and practice exercises in entrepreneurship. Studies include demand analysis; pragmatic economic feasibility studies; identification and use of resources; function and use of profits.
Prerequisite: Six hours of Economics.
- 3320 Money and Banking** 3:3:0
Functions and policies of the American monetary and banking system. Commercial banking; Federal Reserve System; monetary theories and policies; economic stabilization and growth.
Prerequisite: Six hours of Economics.
- 3330 Intermediate Theory** 3:3:0
Economic analysis and methodology. Distribution theory; price theory; pure and imperfect competition.
Prerequisite: ECON 2302.
- 3340 Macro Economics** 3:3:0
A descriptive-analytical approach to the dynamic forces that influence the aggregate level of economic activity. Income and employment determinants; levels of income and employment, stabilization theory; investment and income relationship; monetary and fiscal policies.
Prerequisite: ECON 2301.
- 3350 International Trade** 3:3:0
Theories, practices and problems involved in international commerce between nations. Bases of trade; tariffs; exchange controls; international monetary policies; current problems.
Prerequisite: Six hours of Economics.
- 3370 Public Finance** 3:3:0
Study of the constitutional, administrative and economic aspects of governmental fiscal activities; government debt; intergovernmental fiscal relations; federal, state and local taxes.
Prerequisite: Six hours of Economics.
- 3390 Managerial Economics** 3:3:0
The application of the techniques of economic analysis to managerial problems of business enterprises utilizing a problem solving or case study approach. Goals of the firm; business forecasting; demand analyses; cost analysis; game theory; pricing policies; governmental relations.
Prerequisite: ECON 2302.
- 4311 Problems in Economics** 3-6:0:0
Investigation into special areas in economics under the direction of a faculty member. This course may be repeated for credit when topics of investigation differ. Not intended for students with grade point deficiencies.
- 4340 Economic Development** 3:3:0
Introduction to the theories and history of economic growth and development applicable to advanced and emerging economies; analysis of processes of growth including cultural, technological and economic factors; identification of problem areas with policy implications.
Prerequisite: Three hours of Economics.
- 4380 Environmental Economics** 3:3:0
The world's physical and economic resources and their relationship to man's well being. Interrelationships between resources and industries, commerce and investments at the national and international level. Implications of government regulations on resource use and economic development.

Finance Courses (FINC)

- 3310 Principles of Finance** 3:3:0
 An introductory survey of the principal issues, decision areas, and analytical procedures relevant to the financial management of private business firms including capital budgeting, cost of capital, short and long-term financing, dividend policy and valuation.
Prerequisite: ECON 1301 or ECON 2302 and 2301, ACCT 2302 and Junior standing.
- 3320 Intermediate Financial Management** 3:3:0
 Analytical techniques used in financial decision making, including ratio analysis, funds analysis, capital structure, dividend policy, financial forecasting, and valuation models.
Prerequisite: FINC 3310.
- 3306 Personal Finance** 3:3:0
 Introduction to financial problems of the consumer. Emphasis is placed on problems concerning financial planning, investments in real estate, personal property, insurance, and securities.
Prerequisite: Non-finance majors only.
- 4310 Investments** 3:3:0
 An appraisal of investment alternatives in financial markets. Markets, securities, methods of analysis, investment programming.
Prerequisite: FINC 3310.
- 4320 Financial Markets and Institutions** 3:3:0
 A study of the supply and demand for funds in financial markets; analysis of sectoral supply and demand in various sub-markets; the role of financial intermediaries; interest rate forecasting.
Prerequisite: FINC 3310.
- 4330 Commercial Banking** 3:3:0
 An overview of the regulation, operation, and management of the commercial bank; asset and liability management policy; loan policy, investment policy, capital adequacy, liquidity management.
Prerequisite: FINC 3310.
- 4306 Security Analysis and Portfolio Management** 3:3:0
 Analysis of investment alternatives in a portfolio context, recent theoretical developments in portfolio management, construction of portfolios to achieve specific investment objectives, investment portfolio monitoring and performance evaluation.
Prerequisite: FINC 4310.
- 4390 Mortgage Lending** 3:3:0
 Methods of real estate financing, sources of funds from financial institutions and governmental agencies. Financial instruments available to the investor, mortgage, risk analysis, and loan principles.
Prerequisite: FINC 4340.

Department of Information Systems and Analysis

Interim Department Chair: Richard Drapeau 237 Galloway Business Bldg., Phone 880-8635

Professors: Barnes, Drapeau, Spradley

Associate Professors: Pearson, K. Bandyopadhyay

Assistant Professor: Singh

Instructors: Cammack, Flosi, Mukherjee, Pinson

The Department of Information Systems and Analysis offers degrees in General Business and Management Information Systems. All students receiving degrees must meet the general education degree requirements of the University described under the Academic Policies and Procedures section of this catalog. In addition students must meet the requirements for the Bachelor of Business Administration degree outlined by the College of Business.

General Business

The academic major in General Business provides students an opportunity to study the fundamentals of a business enterprise. The program allows students to take courses in General Business only or to concentrate their coursework in one of the following areas: Advertising Communication, Entrepreneurship, Industrial Engineering and Retail Merchandising.

Management Information Systems

Information Systems, as an academic field, encompasses two broad areas: (1) acquisition, deployment, and management of information technology resources and services (the information systems function) and (2) development and evolution of infrastructure and systems for use in organization processes (system development).

The information systems function has a broad responsibility to develop, implement, and manage an infrastructure of information technology (computers and communications), data (both internal and external), and organization-wide systems. Information technology is pervasive in all organization functions. Accounting, finance, marketing and production, among other areas, use it. This pervasive use increases the need for information systems professionals with systems management and system development expertise.

The program prepares students to communicate effectively both orally and in writing. It requires students to develop interpersonal skills and to apply both quantitative and qualitative techniques to solve business problems in group and team settings. It prepares individuals for positions such as: information systems (IS) manager, telecommunications manager, network administrator, LAN client/server developer, systems analyst, database analyst or administrator, software project manager, and technical support manager.

The following requirements are effective for all students entering or transferring into the MIS program: A minimum GPA of 2.5 is required to enter and remain in this program. Students who drop below 2.5 GPA will be placed on probation and will not be allowed to enroll in MISY 3370, MISY 4350, or MISY 4380. Additionally, MIS majors who make a grade of "D" or "F" in any MIS course must repeat the course, earning a grade of "C" or higher.

Suggested Programs of Study

Bachelor of Business Administration

General Business Major – Business Concentration

First Year	Second Year
BULW 1370 Business Environment and Public Policy.....3	ACCT 2301, 2302 Principles.....6
MISY 1373 Intro Software Tool Kit3	ENGL Lit3
ECON 2302.....3	POLS 2301, 23026
ENGL Comp.....6	Am His6
MATH 1325 Elements of Analysis3	Fine Arts3
Lab Sci8	COMM 3310 Business and Professional Speech.....3
PHIL 13703	ECON 2301.....3
PEGA1	
Elective (non-business)3	
33	30
Third Year	Fourth Year
BUAL 3310, 3320 Business Analysis6	ACCT 3340 Cost Accounting or ACCT 3380 Tax Acc3
BULW 3310 Business Law3	MISY 4360 Mgt Information Systems.....3
FINC 3310 Prin of Finance3	ECON 3340 Macro Eco or ECON 3390 Eco of the Firm3
MGMT 3310 Prin of Org Behav & Mgt3	FINC 3320 Fin Analysis3
MGMT 3320 Production Management3	MGMT 3330 Personnel Management3
MKTG 3310 Prin of Marketing3	MKTG 4310 Marketing Management3
OFAD 3350 Business Comm.....3	MGMT 4380 Seminar on Entrepreneurship.....3
Electives (non-business)3	OFAD 4310 Office Management3
Electives (College of Business 3000-4000 level)....3	Electives (College of Business 3000-4000 Level)3
30	30
	MGMT 4370 Strategic Analysis3

Advertising Communication Concentration

First Year	Second Year
BULW 1370 Business Environment and Public Policy.....3	ACCT 2301, 2302 Principles.....6
MISY 1373 Intro Software Toolkit3	ENGL Lit3
ECON 2302 Principles.....3	POLS 2301, 23026
ENGL Comp.....6	Am His6
MATH 1325 Elements of Analysis3	Fine Arts3
Lab Sci8	COMM 3310 Bus & Prof Speech3
PHIL 1370 Phil of Knowledge3	ARTS 2331 Visual Design I.....3
PEGA1	ECON 2301.....3
Elective (non-business)3	
33	33

Third Year

BUAL 3310, 3320 Business Analysis	6
BULW 3310 Business Law	3
ARTS 3351 Desktop Design	3
FINC 3310 Prin of Finance	3
MGMT 3310 Prin of Org Beh & Mgt	3
MGMT 3320 Production Management	3
MKTG 3310 Prin of Marketing	3
OFAD 3350 Bus Cóm m	3
Electives (College of Business 3000-4000 level)	6
<u>30</u>	

Fourth Year

ARTS 4343 Computers in Art I.....	3
ARTS 4353 Computers in Art II	3
MISY 4360 Management Info Systems.....	3
COMM (3000-4000 level)	3
ECON 3340 Macro Economics or ECON 3390 Economics of the Firm	3
MGMT 4370 Strategic Analysis	3
MKTG 4340 Marketing Promotion	3
Electives (College of Business 3000-4000)	3
<u>27</u>	

Entrepreneurship Concentration

First Year

BULW 1370 Bus Environment & Public Policy	3
MISY 1373 Intro Software Toolkit	3
ECON 2302 Principles	3
ENGL Comp	6
MATH 1325	3
Lab Sci	8
PHIL 1370	3
PEGA	1
Elective (non-business)	3
<u>33</u>	

Second Year

Acct 2301, 2302 Principles	6
Engl Lit	3
PolS 2301, 2302	6
Am His	6
Fine Arts	3
COMM 3310 Bus & Prof Speech	3
ECON 2301	3
Elective (non-business)	3
<u>33</u>	

Third Year

BUAL 3310, 3320 Bus Analysis	6
BULW 3310 Bus Law	3
FINC 3310 Prin of Finc	3
ACCT 3340 Cost Acct	3
MGMT 3310 Prin of Org Behavior	3
MKTG 3310 Prin of Mkt	3
OFAD 3350 Bus Communication	3
Elective (College of Business 3-4000 Level)	6
<u>30</u>	

Fourth Year

MISY 4360 Mgt Info Systems	3
ECON 3340 Macro Eco or ECON 3390 Eco of Firm	3
MGMT 3320 Production Mgt	3
FINC 3320 Financial Analysis	3
MGMT 3330 Human Res Mgt	3
ECON 3310 Eco of Entrepreneur	3
MKTG 4350 Entrepreneur Mkt	3
MGMT 4380 Seminar on Entre	3
MGMT 4370 Strategic Analysis	3
<u>27</u>	

Industrial Engineering Concentration

First Year

BULW 1370 Business Environment and Public Policy.....	3
MISY 1373 Intro Software Toolkit	3
ECON 2302.....	3
ENGL Comp.....	6
MATH 1325 Elements of Bus Anal.....	3
Lab Sci	8
PHIL 1370 Phil of Knowledge	3
PEGA	1
Elective (non-business)	3
<u>33</u>	

Second Year

ACCT 2301, 2302 Principles.....	6
ENGL Lit	3
POLS 2301, 2302	6
American History	6
Fine Arts	3
COMM 3310 Bus & Prof Speech	3
ECON 2301.....	3
<u>30</u>	

Third Year

BUAL 3310, 3320 Business Analysis6
 BULW 3310 Bus Law.....3
 FINC 3310 Prin of Finance3
 INEN 3300 INEN – An Introduction.....3
 MGMT 3310 Prin of Org Behav & Mgt3
 MKTG 3310 Prin of Marketing3
 OFAD 3350 Business Communications3
 Elective (College of Business
 3000-4000 level)6

30

Fourth Year

MISY 4360 Mgt Information Systems.....3
 ECON 3340 Macro Eco or
 ECON 3390 Eco of the Firm3
 INEN 3330 Engineering Economy or INEN
 3322 Engineering Materials and Processes3
 INEN 4316 Industrial Product Safety or INEN
 4369 Engineering Management.....3
 INEN 4301 Quality Control.....3
 INEN 3380 Work Design3
 INEN 4374 Human Factors Engineering, INEN
 4376 Occupational Ergonomics or INEN 4379
 Facilities Design3
 MGMT 3320 Production Management3
 MGMT 4370 Strategic Analysis3
 Electives (College of Business
 3000-4000 level)3

30

Retail Merchandising Concentration

First Year

BULW 1370 Business Environment
 and Public Policy.....3
 MISY 1373 Intro to Software Toolkit3
 ECON 2302 Principles.....3
 ENGL Comp.....6
 MATH 1325 Elements of Analysis3
 Lab Sci8
 PHIL 1370 Phil of Knowledge3
 PEGA1
 Elective (non-business)3

33

Second Year

ACCT 2301, 2302 Principles.....6
 ENGL Lit3
 POLS 2301, 23026
 Am History.....6
 Fine Arts3
 COMM 3310 Bus and Prof Speech3
 ECON 2301.....3

30

Third Year

BUAL 3310, 3320 Bus Analysis6
 BULW 3310 Bus Law.....3
 FINC 3310 Prin of Finance3
 FCSC 1320 Textiles3
 FCSC 3306 Product Merchandising3
 MGMT 3310 Prin of Org Behav & Mgt3
 MKTG 3310 Prin of Marketing3
 OFAD 3350 Bus Com3
 Electives (College of Business
 3000-4000 Level)6

33

Fourth Year

MISY 4360 Mgt Info Systems3
 ECON 3340 Macro Eco
 or ECON 3390 Eco of the Firm3
 FCSC 4320 Fashion His.....3
 FCSC 4340 Fashion Prod and Dist3
 FCSC 3370 Fashion Promotion and Advertising ..3
 MGMT 3320 Prod Management3
 MGMT 4370 Strategic Analysis3
 MKTG 3320 Retailing3
 Electives (College of Business
 3000-4000 Level)3

27

Bachelor of Business Administration Management Information Systems Major

Suggested Program of Study

First Year	Second Year
BULW 1370 Business Environment & Public Policy3	ACCT 2301, 2302 Principles.....6
MISY 1373 Intro Software Tool Kit3	ENGL Lit3
ECON 2302 Principles.....3	Fine Arts3
ENGL Comp6	COMM 3310.....3
MATH 1325 Elements of Analysis3	POLS 2301, 23026
Lab Sci8	Amer His6
PHIL 1370 Phil of Knowledge.....3	ECON 2301.....3
PEGA1	MISY Elective3
Elective (non-business)3	
33	33
Third Year	Fourth Year
BUAL 3310, 3320 Business Analysis6	MISY 3350 JAVA Development or MISY 3360 Visual BASIC3
MISY 3340 Network/Telecomm3	MISY 4360 Management Info Sys.....3
MISY 3320 IS Hardware/Software3	MISY 3370 IS Analysis & Design3
BULW 3310 Business Law3	MISY 4380 IS Development3
FINC 3310 Prin of Finance3	ECON 334 Macro Eco or ECON 3390 Eco of the Firm3
MGMT 3310 Prin of Org Bhav & Mgt3	MGMT 3320 Production Mgt3
MKTG 3310 Prin of Mkt3	MGMT 4370 Strategic Analysis3
MISY 3310 IS Theory & Practice3	MISY 4350 Project Management.....3
OFAD 3350 Business Communications3	Elective (non-business)3
30	27

***** The following requirements are effective for all students entering or transferring into the MIS program beginning Fall #998: A minimum overall GPA of 2.5 is required to enter and remain in this program. Students who drop below 2.5 GPA will be placed on probation. Students on probation will not be allowed to enroll in MISY 3370, MISY 4350 or MISY 4380. All MIS majors who make a grade of "D" or "F" in any MIS course must repeat the course, earning a grade of "C" or higher.

Business Analysis Courses (BUAL)

- 3310 Business Analysis I** 3:3:0
Introduction to the quantitative methods of analysis as applied to business problems. Topics of study include collection of data, statistical description, probability theory, probability distribution, sampling theory, estimation, and introduction to test of hypothesis.
Prerequisite: MATH 1314 or higher.
- 3320 Business Analysis II** 3:3:0
Emphasis on use of statistics in business decision-making. Topics of study include hypothesis testing, inferences between two populations, analysis of variance, chi-squared and other non-parametric tests, simple-multiple linear regression/correlation analysis, classical time series analysis, and index numbers.
Prerequisite: BUAL 3310.
- 4390 Special Topics in Business Analysis** 3:0:0
Intensive investigation of topics in business analysis. Library and/or laboratory research and conferences with supervising faculty member. May be repeated when area of study differs.
Prerequisite: Approval of instructor and department chair.

Management Information Systems Courses (MISY)

- 1373 Introductory Software Tool Kit** 3:3:0
History of computing; components of a personal computer; word processing, spreadsheets, databases, presentation graphics, e-mail and Internet tools.
- 2320 Fundamentals of Information Systems** 3:3:0
Systems concepts; system components and relationships; cost/value and quality of information; competitive advantage and information; specification, design and re-engineering of information systems; application versus system software; package software solutions; procedural versus non-procedural languages; object oriented design; database features; functions and architecture; networks telecommunication systems and application; characteristics of IS professionals and career paths; knowledge work productivity concepts; software functionality to support personal and group productivity; organization and management of software and data; accessing organization data, accessing external data; selecting a computer solution; developing a macro program by doing; designing and implementing a user interface; developing a solution using database software; refining and extending individual and group information management activities.
Prerequisite: MISY 1373
- 3310 IS Theory and Practice** 3:3:0
Systems theory and concepts; information systems and organizational systems; decision theory and how it is implemented by IT; quality, TQM and re-engineering; level of systems; strategic, tactical and operational; system components and relationships; information system strategies; roles of information and information technology; roles of people using, developing and managing systems; IS planning; human-computer interface; network and telecommunications systems management; electronic commerce; implementation and evaluation of system performance; societal and ethical issues related to information systems design and use.
Prerequisite: MISY 1373.
- 3320 IS Hardware/Software** 3:3:0
Hardware: CPU architecture, memory, registers, addressing modes, buses, instruction sets, multiprocessors versus single processors; peripheral devices: hard disks, CD's, video display monitors, device controllers, input/output; operating systems functions and types; operating system modules: processes, process management, memory and file system management; examples of hardware architectures; examples of operating systems; basic network components, switches, multiplexers and media; installation and configuration of multi-user operating systems.
Prerequisite: MISY 3310
- 3330 COBOL Development** 3:3:0
An introduction to COBOL programming in a business environment. Introduction to and use of program development, top-down structured programming, and program correctness concepts. Coverage will include language syntax, data and file structures and sequential file processing. Development of COBOL programs that run in an Internet environment will be covered.
Prerequisite: MISY 3310
- 3340 Networks and Telecommunication** 3:3:0
Telecommunications devices, media, systems; network hardware and software; network configuration; network applications; coding of data; cost/benefit analysis; distributed versus centralized systems; architectures, topologies, protocols; installation and operation of bridges, routers and gateways; network performance analysis, privacy, security, reliability; installation and configuration of LAN and WAN networks; management of telecommunications, and communications standards. Intranet and Internet.
Prerequisite: MISY 3310
- 3350 JAVA Development** 3:3:0
Data structures and representation: characters, records, files, multimedia; precision of data; information representation, organization and storage; algorithm development; object representation compared to conventional data flow notation; programming control structures; program correctness, verification, and validation; file structures and representation, program development in at least one high-level language.
Prerequisite: MISY 3310
- 3360 Visual BASIC Development** 3:3:0
Introduction to programming using Visual BASIC language. A software engineering approach to developing programs and business systems is stressed and object-oriented concepts are introduced. Coverage includes language syntax and file or database processing; development of graphical user interfaces; development of Visual BASIC programs that run in the Internet environment.
Prerequisite: MISY 3310

- 3370 IS Analysis and Design** 3:3:0
Life-cycle phases: requirements determination, logical design, physical design, test planning, implementation planning, and performance evaluation; communication, interpersonal skills, interviewing, presentation skills; group dynamics; risk and feasibility analysis; group-based approaches: project management, joint application development (JAD), structured walkthroughs; object oriented design; software production and reviews; prototyping; database design; software quality metrics; application categories; software package evaluation and acquisition; professional code of ethics.
Prerequisite: MISY 3310
- 4340 Multimedia Applications** 3:3:0
Use of personal computers to develop multimedia applications; use of various hardware and software components in the production of multimedia systems; working in a workgroup using a Local Area Network with shared resources; the most current hardware and software tools for processing text, graphics, sound, video and animation. Class projects require hands-on use of authoring and applications packages. Students develop and present an interactive multimedia system project.
Prerequisite: MISY 3310
- 4350 Project Management and Practice** 3:3:0
Managing the system life cycle: requirements determination, logical design, physical design, testing, implementation; system and database integration issues; network and client-server management; metrics for project management and system performance evaluation; managing expectations: superiors, users, team members and others related to the project; determining skill requirements and staffing the project; cost-effectiveness analysis; reporting and presentation techniques; effective management of both behavioral and technical aspects of the project; change management.
Prerequisite: MISY 3370
- 4360 Management Information Systems** 3:3:0
Analysis of the role of information systems in business organizations. Fundamental concepts of systems; information flows; nature of information support systems; computer applications in decision systems; applications of decision support and expert systems.
Prerequisite: MISY 1373
- 4370 Database Applications** 3:3:0
This course emphasizes the design of information systems using database software and query languages. The development of Graphical User Interface software systems is stressed. Data warehouse concepts are introduced. Students are required to design, develop and implement database server applications. Legacy systems. LAN and distributed systems are used to give the student hands-on experience in database development.
Prerequisite: MISY 3310
- 4380 IS Development** 3:3:0
This is a capstone course in which the student is required to complete a project that demonstrates command of a significant body of Information Systems knowledge. The course requires application of concepts, techniques, and tools used in analysis, design and implementation of computer-based information systems in an applied or real-world setting. Students are required to present their project to the instructor and other students in the class. This course is required of all senior Information System majors.
Prerequisites: MISY 3350/3360 and MISY 3370
- 4390 Special Topics in Management Information Systems** 3:0:0
Intensive investigation of topics in management information systems. Library and/or laboratory research and conferences with supervising faculty member. May be repeated when area of study differs.
Prerequisite: Approval of instructor and department chair.

Office Administration Courses (OFAD)

- 3350 Business Communications** 3:3:0
Theories, practices and problems involved in communications in business and industry with emphasis on use of practical psychology, good judgment. Letters; reports; memoranda.
Prerequisite: Practical knowledge of touch typewriting helpful.
- 4310 Office Management** 3:3:0
Administrative management of business offices; social, legal, and ethical consideration in office management; employee recruitment, training, supervision, and motivation; information systems; office location and layout; selection of equipment and supplies; office cost control.

Department of Management and Marketing

Department Chair: Brad Mayer

236 Galloway Business Bldg., Phone 880-8622

Professors: S. Bandyopadhyay, R. Godkin

Associate Professor: Sen

Assistant Professors: Fraccastoro, Kenyon, Nguyen

Degree Programs

Management

Management involves the coordination of resources – both human resources (people) and non-human resources (machine, materials, etc.) – to achieve organizational objectives efficiently. The curriculum in Management, therefore, provides the student with an understanding of the specialized functional areas and with a broad, integrated view of the firm as a whole. Men and women with university degrees in Management are equipped to advance more rapidly into positions of increasing responsibility in private business firms, in not-for-profit organizations, and in government.

Human Resources Management

Human Resources Management involves the recruitment, selection, maintenance, and development of human resources by organizations. It includes such diverse functional areas as interviewing, training, compensation and benefits, health and safety, and labor relations. University graduates in Human Resources Management are found in all types of business firms, larger service organizations, and governmental agencies.

Marketing

Marketing, as a professional field, is concerned with the whole range of activities that facilitate the movement of goods and services from the producer to the ultimate consumer. The Marketing curriculum provides the student with a fundamental understanding of each of the specialties involved in the process as well as with the management of the marketing function generally. Typical kinds of careers open to Marketing graduates include advertising, market research, sales and sales management, purchasing, services marketing, business to business marketing, brand management, consumer behavior, and retail management.

Academic Counseling

Management, Marketing and Human Resources Management majors are assigned an academic advisor, who is a full-time faculty member, when they first enter the program. Students who are seniors are advised by the Department Chair.

Suggested Programs of Study – All Majors**First Year**

First Semester	Second Semester*
ENGL Comp3	ENGL Comp3
Lab Sci4	PEGA1
PHIL 1370 Phil of Knowledge.....3	Lab Sci4
BULW 1370 Bus Env and Public Policy.....3	MISY 1373 Intro Software Tool Kit3
ECON 2302 Prin (Micro)3	ECON 2301 Prin (Macro).....3
15	14

Second Year

First Semester	Second Semester
ENGL Lit3	POLS 2302 Intro Am Gov. II3
POLS 2301 Intro Am Gov I3	MATH 13253
MATH 13143	Am Hist3
Am Hist3	Fine Arts3
**COMM 3310.....3	ACCT 2302 Intro Mgrl Acct3
ACCT 2301 Intro Fin Acct3	
18	15

*Human Resources Management majors must take PSYC 2301.

** Human Resources Management majors must take COMM 3340.

Suggested Programs of Study**Bachelor of Business Administration****Human Resources Management**

(See above for First and Second Year)

Third Year

First Semester	Second Semester
OFAD 3350 Bus Comm3	BULW 3310 Bus Law3
BUAL 3310 Bus Analysis I3	BUAL 3320 Bus Analysis II3
FINC 3310 Prin of Fin3	MGMT 3320 Production Management3
MGMT 3310 Prin of Organ Bhav & Mgmt3	MGMT 3330 HR Mgt3
MKTG 3310 Prin of Mkt3	COMM 3340.....3
15	15

Fourth Year

Third Semester	Fourth Semester
MISY 4360 Mgt Information Systems.....3	OFAD 4310 Office Management3
MGMT 4320 Adv Org Behavior3	MGMT 4330 Issues in HR3
PSYC 3360 Tests & Measurements3	MGMT 4370 Strategic Analysis3
ECON 3340/33903	MGMT 4340 Qual & Prod3
12	15

Bachelor of Business Administration

Management Major

(See above for First and Second Year)

Third Year

First Semester	Second Semester
OFAD 3350 Bus Comm3	BULW 3310 Bus Law3
BUAL 3310 Bus Analysis I3	BUAL 3320 Bus Analysis II3
FINC 3310 Prin of Fin3	MGMT 3320 Production3
MGMT 3310 Prin of Organ Bhav & Mgmt3	MGMT 3330 HR Mgt3
MKTG 3310 Prin of Mkt3	ACCT 3340 Cost Accounting3
15	15

Fourth Year

First Semester	Second Semester
MISY 4360 Mgt Info Systems3	Bus Elec (3000/4000 level)3
MGMT 4320 Adv Org Behavior3	MGMT 4370 Strategic Analysis3
MGMT 4380 Seminar on Entrepreneurship3	MGMT 4340 Qual & Prod3
MGMT 4310 Budgetary Control3	MKTG 4310 Mkt Management3
ECON 3340/33903	
15	12

Bachelor of Business Administration

Marketing Major

(See above for First and Second Year)

Third Year

First Semester	Second Semester
OFAD 3350 Bus Comm3	BULW 3310 Bus Law3
BUAL 3310 Bus Analysis I3	BUAL 3320 Bus Analysis II3
FINC 3310 Prin of Fin3	MGMT 3320 Production3
MGMT 3310 Prin of Organ Bhav & Mgmt3	MKTG 3350 E-Marketing3
MKTG 3310 Prin Mkt3	MKTG 3360 Consumer Behavior3
15	15

Fourth Year

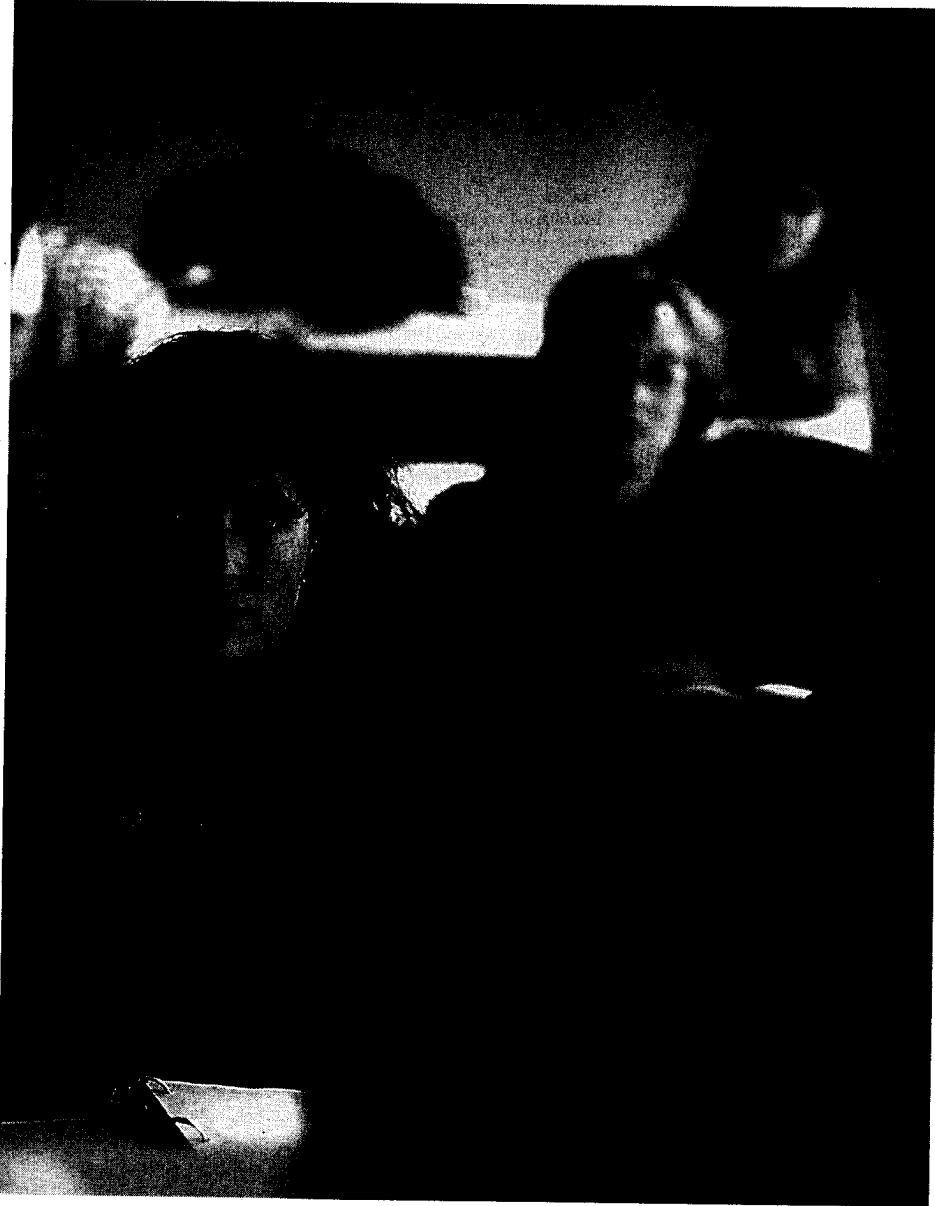
First Semester	Second Semester
MISY 4360 Mgt Info Systems3	MKTG 4360 Mkt Research3
MKTG 4330 International3	MGMT 4370 Strategic Analysis3
MKTG 4340 Marketing Promotion3	MKTG 4370 Adv Mkt Problems3
MKTG 4310 Marketing Management3	Bus. Elec (3000/4000 level).....3
ECON 3340/33903	
15	12

Management Courses (MGMT)

- 3310 Principles of Organizational Behavior & Management** 3:3:0
Includes the study of organization behavior concepts such as leadership, motivation, individual behavior, group behavior and communication. Their use in U.S. and multinational organizations in management practice is examined in the context of today's legal, social and ethical environment.
Prerequisite: Junior standing.
- 3320 Production Management** 3:3:0
A survey of the production function and the analytical tools used to solve problems associated with the development and operation of a production system. Analytical tools include: linear programming, critical path scheduling, waiting line, statistical quality control and forecasting.
Prerequisite: Junior Standing. BUAL 3310 is highly recommended.
- 3330 Human Resource Management** 3:3:0
A behavioral approach to the management of the human resource in business enterprise. The fundamentals of human relations and organizational behavior will be used to structure an understanding of the managerial problems of recruitment, selection, training, promotion and termination of personnel. Supervision of the work force will be considered as an examination of theories of motivation, communication and leadership.
Prerequisites: Junior Standing, MGMT 3310.
- 4310 Enterprise Resource Planning and Budgetary Control** 3:3:0
Theories, problems and techniques of internal financial and budgetary controls. Financial planning, budgetary construction, evaluation, performance rating, re-planning.
Prerequisites: Senior Standing, ACCT 2301, and FINC 3310.
- 4320 Advanced Organizational Behavior** 3:3:0
A survey of organization theory with emphasis on behavioral issues in both the private and public sectors.
Prerequisites: Senior Standing and MGMT 3310.
- 4330 Issues in Human Resources** 3:3:0
An analysis of current issues in the field of personnel and industrial relations, including fair employment and compensation practices, human utilization and motivation, individual rights, collective bargaining, and personnel related laws, decisions, guidelines and executive orders.
Prerequisites: Senior Standing and MGMT 3330.
- 4340 Quality and Productivity Management** 3:3:0
A survey course emphasizing the need for improved productivity in profit and non-profit organizations. The course will focus on the historical and current aspects of productivity as well as problems and methods of measuring, planning, and implementing productivity programs.
Prerequisites: Senior Standing, MGMT 3320, and BUAL 3310.
- 4370 Strategic Analysis in a Digital Global Economy** 3:3:0
The capstone course for the undergraduate business program. The course has been developed to help you understand the task of the strategic management process in a digital global environment. The course assumes that a company's success depends on you to adapt to rapidly changing markets, globalization, shifting governmental policies, and new technologies. The emphasis of this course will be on sharpening analytical, decision-making and communication skills. The case study method and/or a global simulation will be used to acquaint the student with probable, authentic strategic situations in the economy.
Prerequisites: Senior who has taken all of the business core except MGMT 4360 or a graduating senior who has taken FINC 3310, MGMT and MKTG 3310, and MGMT 3320.
- 4380 Seminar on Entrepreneurship**
Designed to give student overview of the new venture creation process. Includes topics of entrepreneurial psychology opportunities in the marketplace, gathering resources, and the "Business Plan".
Prerequisites: Senior Standing, BUAL 3310, and MKTG 4310.
- 4390 Special Problems in Business** 3:0:0
Investigation into special areas in business under the direction of a faculty member.
Prerequisite: Permission of supervising faculty member and chair of the department.

Marketing Courses (MKTG)

- 3310 Principles of Marketing**
A description and analysis of business activities designed to plan, price, promote and distribute products and services to customers. Topics studied include the marketing environment, consumer buying habits and motives, types of middlemen, marketing institutions and channels, governmental regulations, advertising and current marketing practices.
Prerequisite: Junior Standing
- 3350 E-Marketing**
Tools and techniques of marketing on the Internet are introduced in the context of E-business. From the perspective of strategic marketing, students learn how to effectively leverage technology in applying fundamental marketing theories and concepts to harness the marketing potential of the Internet.
Prerequisites: Junior Standing, MKTG 3310.
- 3360 Consumer Behavior**
Acquaints the student with consumer behavior models and behavior research techniques.
Prerequisites: Junior Standing, MKTG 3310.
- 4310 Marketing Management**
The planning and execution of various marketing activities from the managerial viewpoint are presented, via determining the basic product or service market analysis, price policies, product promotion, management of the sales force and sales analysis and physical distribution with logistics system concept.
Prerequisites: Senior Standing, ECON 1301 or ECON 2301 and ECON 2302, ACCT 2301, MKTG 3310 and MGMT 3310.
- 4330 International Marketing**
A survey of international marketing, world markets, political restraints in trade and international marketing principles.
Prerequisites: Senior Standing, ECON 1301 or ECON 2302 and ECON 2302, ACCT 2301, MKTG 3310 and MGMT 3310.
- 4340 Marketing Promotion**
An overview of the broad field of advertising. Creation of primary and selective demand, promotional programs selection, media effectiveness coordination of promotional mix. Selection and determination of advertising.
Prerequisites: Senior Standing, ECON 1301 or ECON 2302 and 2302, ACCT 2301, MKTG 3310 and MKTG 3360.
- 4350 Entrepreneurial Market Opportunities**
Focused on recognizing opportunities in the marketplace; analyzing industry/market trends, size, growth opportunities, niches; capitalizing on opportunities through new business creation.
Prerequisites: Senior Standing, MKTG 3310.
- 4360 Marketing Research**
The importance and use of marketing research in business is stressed. A detailed analysis is made of each marketing research step from the formulation of the problem to the preparation of the research report and follow-up. The basic research methods (survey, observational and experimental) are presented.
Prerequisites: Senior Standing, ECON 1301 or ECON 2301 and ECON 2302, ACCT 2302, MKTG 3310, and BUAL 3320.
- 4370 Advanced Marketing Problems**
Oral and written cases in the area of marketing management and marketing strategy are utilized (organization, product lines, pricing, channels of distribution, selling, etc). Emphasis is placed on simulated problem solving and decision making in the marketing environment.
Prerequisites: Graduating Senior and permission of the Department Chair.



The College of Education and Human Development offers state-of-the-art labs and accredited programs to students in several fields, including education, health, dietetics, fashion retailing and merchandising, interior design and hospitality management.

The College of Education and Human Development

Departments: Professional Pedagogy, Family and Consumer Sciences, Health and Kinesiology, and Educational Leadership

R. Carl Westerfield, Dean

203 Education Building, Phone 880-8661

Preparing prospective career educators is and has been an essential mission of the University and the College since its establishment in 1959. More recent offerings representing diversification and growth of the College of Education and Human Development are food service management, interior design, fashion merchandising, home economics, health, exercise science and sports management.

Graduate programs in the College are described in the Graduate Studies Catalog of the University.

Degree and certification programs are described in separate departmental sections of this bulletin.

Lamar University reserves the right to modify degree requirements and teaching certificate requirements in keeping with legislative acts and rules established by the Texas Higher Education Coordinating Board and the State Board for Educator Certification.

Mission and Objectives

The College of Education and Human Development is dedicated to promoting the achievement of the University's mission. Toward that goal and in the belief that educational problems are best through partnerships with elementary and secondary education, higher education, state-level education agencies and other appropriate groups, the College is committed to a collaborative approach in addressing educational issues. Emphasis is placed on the preparation of personnel for educational and human service careers through professional programs, which are current and relevant in theory and practice. Collaborative participation by the faculty in state, regional and national professional organizations, public schools and human service agency activities is practiced and encouraged.

The College of Education and Human Development has as its major function the professional preparation of elementary and secondary school personnel and preparation of personnel for specific human services positions and professional careers. The College has an oversight role for the development of academic competencies of the prospective teacher pursuing a major within the many departments of Lamar University.

The College is composed of four departments: Professional Pedagogy, Educational Leadership, Family and Consumer Sciences, and Health and Kinesiology. The Division of Professional Services includes early field experiences, student teaching and certification. The Early Childhood Development Center is located adjacent to the University campus and provides a site for University students to observe and work with children as part of the professional preparation of teachers and other school personnel.

Degrees Offered

Bachelor of Science Degree with majors in the following fields:

Interdisciplinary Studies	Family and Consumer Sciences
Kinesiology	Health

Teacher Education – A Shared Responsibility

The Lamar Educator Preparation Advisory Board, with members broadly representative of K-12 schools serving the region, is appointed by the Dean of the College of Education and Human Development. This body recommends policies for teacher education at Lamar University that will best meet the needs of the schools. The preparation of teachers is a responsibility shared by the faculty of Lamar University through its Educator Preparation Council, composed of faculty members from various colleges offering educator certification programs. Policies authorizing teacher education programs are developed by the Council. Policies and certificate programs are coordinated through the Council after approval by the Executive Vice President for Academic Affairs. Within the framework of the policies established, the College of Education and Human Development provides oversight for all teacher education programs throughout the University.

Teacher Education Programs

Lamar University provides undergraduate teacher education programs that fulfill the curriculum requirements for the following certificates in the State of Texas: elementary education, secondary education, special education, vocational home economics, education of the deaf, driver education, all-levels music, all-levels art, all-levels physical education, early childhood education, and English as a second language.

Information concerning graduate teacher education programs and professional certification may be found in the Graduate Studies Bulletin.

Early Childhood Development Center

The Lamar University Early Childhood Development Center is an educationally oriented model program for children between the ages of 18 months and five years. The Center is accredited by the National Association for the Education of Young Children. Under the direction of The College of Education and Human Development, the Center provides an integral part of professional development for undergraduate and graduate students on the Lamar University campus.

The center is used extensively by the Department of Family and Consumer Sciences, the Department of Pedagogy, the Department of Health and Kinesiology, and the Department of Educational Leadership. The Center provides opportunities for University students to direct learning of young children who exhibit both typical and atypical development as well as investigate effective teaching strategies for promoting optimal development among young children. Students have the opportunity to observe and interact with children, which enhances the understanding of child growth and development. In addition the students are able to relate understanding about the family, nutrition, prenatal care and community interaction to child behavior.

The Center provides interdisciplinary research opportunities for faculty and graduate students. The center is also used for strengthening leadership skills in the field of child development through seminars, workshops and other educational events. The Center is accredited by the National Academy of Early Childhood Programs.

Alternative Certification Program

The College of Education and Human Development offers an Alternative Teacher Certification Program in Special Education (K-12), Science (8-12), and Elementary Bilingual. Applicants for this program must have earned a bachelor's degree and possess an overall minimum grade point average of 2.5 on a four-point scale. Other criteria also apply. Alternative Certification is an intense, quality, field-based program, and interns learn through course work and by participating in a full-time employment situation. For further information, contact the Dean of Education and Human Development.

Post Baccalaureate Certification Programs

The College of Education and Human Development offers Post-Baccalaureate Certification Programs for students who hold a bachelor's degree and desire to earn teacher certification. Programs offered are: EC-4 Generalist, 4-8 Generalist, 4-8 specialized areas, Secondary 8-12 specialized areas, and All-Levels Art and Special Education.

Applicants for these programs must have earned a bachelor's degree from an accredited college or university and must possess an overall minimum grade point average of 2.5 on a 4.0 scale on all university work completed. Applicants must also take and pass all three sections of the THEA test. If the THEA test has not been completed, it must be completed with a passing score within the first semester of enrollment. Other criteria may also apply.

Consult with the director of the Post-Baccalaureate Program in office 206, Education Building, for additional information.

Pre-Admission into Teacher Education

Application for pre-admission into the teacher education program is made prior to enrolling in PEDG 3310 or PEDG 3320, which must be successfully completed before a student may enroll in any other 3000 courses in Pedagogy, Special Education, Reading, or Early Childhood Education. Instructions and forms needed for application are available on the college web site: <http://dept.lamar.edu/education>.

For pre-admission into teacher education, requirements must be satisfied as follows:

1. Successful completion of 45 semester hours, with a minimum GPA overall of 2.5 (on a 4.0 scale), prior to enrolling in PEDG 3310 and/or PEDG 3320;
 2. Successful completion of all sections of THEA;
 3. Successful completion of ENGL 1301 and ENGL 1302 or ENGL 1361 and ENGL 1362;
 4. Successful completion of MATH 1314 and the other designated mathematics courses required by each teaching certificate program;
 5. Submission to a criminal records review;
-

6. Attainment of an acceptable score on the Nelson-Denny reading test; and
7. Electronic completion of the survey, "Dispositions of Effective Teachers."

Lamar University reserves the right to modify degree requirements and teaching certificate requirements in keeping with legislative acts and rules established by the Texas Higher Education Coordinating Board and the State Board for Educator Certification.

Admission Requirements for Teacher Education Candidacy

Completion of 60 semester hours including:

1. Successful completion of PEDG 3310 and PEDG 3320.
2. An overall grade point average of 2.5 or higher on a 4.0 scale.
3. An overall grade point average of 2.5 or higher in certificate field(s).
4. An overall grade point average of 2.5 in pedagogy courses (Pedagogy, Special Education, Reading, and Early Childhood Education).
5. No grade lower than "C" in pedagogy courses.
6. Achievement of acceptable score on the Watson-Glaser Critical Thinking Appraisal.

Progress Toward Student Teaching

After being admitted to teacher education, the candidate is carefully monitored as to maintaining the grade point averages required for admission. Each student is expected to maintain an individual electronic portfolio, which contains indicators of progress in a teacher education certificate program. Included among those indicators are evaluations of teaching performance, artifacts representing course assignments, grades, work samples, proficiency in language usage and ratings of dispositions.

Periodically, a Teacher Education Committee, appointed by the chairman of the Department of Professional Pedagogy, reviews the portfolio of each student in the program. The Committee will approve or disapprove the continuance in the program of a student or specify conditions under which a student may proceed.

Admission to Student Teaching and the Professional Semester

Student teaching shall be scheduled for the final spring or fall semester prior to graduation from Lamar University. All pedagogy courses must be completed prior to student teaching.

The Master Supervising Teacher Program (MaST) supports the student teaching component of teacher education. MaST teachers are unique in combining the roles of university supervisor and cooperating teacher. MaST teachers are supported in their efforts by the program director, who serves as the contact person for the university. Lamar University students who enroll for student teaching will be placed with a MaST teacher who has been prepared and employed by the University as an adjunct instructor for this special role.

Students who are eligible and who desire to enroll in the "professional semester" must apply for student teaching, approximately a year in advance, through the office of

Professional Services, room 206B, or through the Director of the MaST Program, room 214, Education Building. For fall student teaching, application should be made **no later than October 1**. For spring student teaching, application should be made **no later than March 1**.

In order to qualify for student teaching, the applicant must be recommended by a Teacher Education Committee and have met the following requirements:

1. Completion of course work specified by his/her certificate/degree plan.
2. A minimum grade point average of 2.5 on a 4.0 scale in:
 - a. all courses taken
 - b. all courses taken in teaching fields or areas of specialization in interdisciplinary studies
 - c. all courses taken in pedagogy (Pedagogy, Reading, Early Childhood Education or Special Education)
3. Grade of "C" or better in each pedagogy course.
4. Be of senior standing.

Student Teaching for Post-Baccalaureate Certification Programs

Students admitted to the post-baccalaureate certification programs who are requesting admission to student teaching must submit an application by August 1 for fall and November 1 for spring. Application forms are available in office 206, Educational Building. Information is available in office 206B or office 214.

To enroll in student teaching, post-baccalaureate students must present a current grade point average of not less than 2.5 over all on a 4.0 scale. They must participate in all seminars and other activities in which all other student teachers participate.

Certification Policies

Lamar University reserves the right to modify degree requirements and teaching certificate requirements in keeping with legislative acts and rules established by the Texas Higher Education Coordinating Board and the State Board for Educator Certification.

- To be recommended for a teaching certificate, the applicant must present
1. A minimum grade point average of 2.5 in all work undertaken at Lamar, a minimum 2.5 in elementary school specialization or in each teaching field and a minimum 2.5 in the professional education courses relevant to the certificate.
 2. A minimum of 12 hours in residence at Lamar University in professional education courses.
 3. A minimum of six hours in residence at Lamar University.
 - a. In each teaching field for secondary certification.
 - b. In the area of specialization for elementary certification.
 4. Evidence of successfully completing student teaching requirements in the area of certification sought.
 5. Successful completion of all sections of the Texas Higher Education Assessment (THEA) and successful completion of the appropriate TExES examinations.

6. Department Chairs determine eligibility of students to take TExES examinations according to established guidelines by the State Board for Educator Certification.

Certificate and Degree Requirements

Certificate programs are offered in elementary, secondary, special education-generic, vocational home economics, all-levels art, all-levels music, all-levels physical education and all-levels hearing impaired. Certificate endorsements are available in driver education and English as a second language. Information concerning these programs may be found in the following paragraphs or in departmental sections of this bulletin.

Certificate requirements are composed of four parts: (1) academic foundations, (2) academic specialization, (3) professional development and (4) designated free electives. Programs require the completion of 126 to 139 semester hours.

Current academic foundation requirements for certificate programs are described below. Students wishing to secure the Bachelor of Arts or Bachelor of Science degree and, at the same time, to certify will be required to meet teacher education standards. It will be necessary to consult with your department head or the College of Education and Human Development Advising Center concerning the specifics of these requirements. Other requirements are outlined under the departmental sections of this catalog.

Philosophy of Knowledge Core Curriculum

The core curriculum, found on page 15, is required of all students working toward teacher certification at this University. Within the general framework shown, some course selections may be governed by the type of certification or degree obtained. Where appropriate, a maximum of six semester hours (eight in science), taken in academic foundations may be included in any one teaching field.

Additional electives and degree requirements9

(Must include 3 hrs Fine Arts and 3 hrs Social Science)

Nine hours to be selected from approved courses in the following groups with courses included from a minimum of two groups:

- | | |
|------------|--|
| Group I: | Anthropology, Psychology, Sociology,
Child & Family Development, Health |
| Group II: | Economics |
| Group III: | Foreign Language, Manual Communication |
| Group IV: | Art, Drama, Music, Dance |
| Group V: | Philosophy, Humanities |

Special Certificates and Endorsements

All-levels Art, Health, Music, and Physical Education degrees and certificates (see the instructional departments for information).

Driver Education Endorsement. Described in the Department of Health and Kinesiology section of this catalog.

Gifted and Talented Supplemental (Grades EC-12)

Special Education Supplemental (Grades NA)

English as a Second Language Supplemental (Grades NA)

Education of the Hearing Impaired. Described in the Communication section of this catalog.

Vocational Home Economics degree and certificate. Described in the Family and Consumer Sciences section of this catalog.

Certification for Persons with Bachelor's Degree (or higher) Who Are Not Certified To Teach in Texas

1. Information concerning these certification plans is available in the College of Education and Human Development Professional Services Office.
2. Persons with degrees from Texas colleges and persons with degrees from out-of-state colleges apply in the College of Education and Human Development, Professional Services Office for certification in Texas.

Certification for Persons with Texas Teaching Certificates Who Desire Additional Endorsements

Those persons with elementary certificates who desire secondary certification, those with secondary certificates who desire elementary certification, and those with elementary or secondary certificates who desire additional endorsements obtain information from the Professional Services Office.

Professional Certificates

Requirements for Professional Certificates are described in the Graduate Catalog.

Department of Professional Pedagogy

Department Chair: Dorman Moore, Interim Chair 202 Education Building, Phone 880-8673

Professors: Burke, Hargrove, Karlin, Sisk

Associate Professors: Farrow, Goulas, Griffith, Hamza, Henry

Assistant Professors: Cavallini, Crawford, Hickman, Matheny, Wilkinson

Instructor: Coryell, Graham, McCutcheon, Penland

Bachelor of Science Degree in Interdisciplinary Studies

The Department of Professional Pedagogy offers the Interdisciplinary Studies degree plan for the following EC-4 and 4-8 degree plans leading to teacher certification:

EC - 4 Generalist

First Year	Second Year
ENGL 1301, 1302.....6	ENGL Lit (2000 level)3
MATH 1314, 13506	PSYC 2301 or SOCI 13013
HIST 1301, 13026	POLS 2301, 23026
PHIL 13703	PHYS 24114
COMM 1315.....3	CHEM 24114
HLTH 1370.....3	KINT 3370.....3
THEA 1310.....3	PEDG 3310*, 3320*6
EACH 21101	MUSI 33713
PEGA.....1 or 2	
32-33	32

Third Year	Fourth Year
ARTS 3371 3	PEDG 3350 3
BIOL 3411 4	GEOL 3411 4
READ 3330, 3360 6	PEDG 4340, 3351 6
SOCI 3301, 3302 6	EACH 4305 3
MATH 3312, 3313 6	PEDG 4950 9
READ 3390, 3393 6	SPED 4342 3
ENGL 4305 3	
EACH 4303 3	
37	28
Total Hours 129 - 130	

**You must apply and be pre-admitted into Teacher Education Program before enrolling. Full admission to the Teacher Education Program and Student Teaching is explained previously in this catalog.*

4 - 8 Generalist/Reading

First Year	Second Year
ENGL 1301, 1302 6	ENGL Lit (2000 level) 3
MATH 1314, 1350 6	PSYC 2301 or SOCI 1301 3
HIST 1301, 1302 6	POLS 2301, 2302 6
PHIL 1370 3	PHYS 2411 4
COMM 1315 3	CHEM 2411 4
THEA 1310 3	MATH 3312, 3313 6
EACH 2110 1	PEDG 3310*, 3320* 6
PEGA 1 or 2	
29-30	32
Third Year	Fourth Year
ENGL 3340 3	PEDG 3350, 3351 6
ADV ENGL Lit 3	READ 3393 3
ENGL 3316, 3360, or 3370 3	READ 4344 3
READ 3326 3	PEDG 4340 3
READ 3360, 3390 6	ENGL 4310 3
SOCI 3301, 3302 6	PEDG 4950 9
MATH 3311, 3316 6	SPED 3305 3
BIOL 3411 4	
GEOL 3411 4	
38	30
Total Hours 129 - 130	

**You must apply and be pre-admitted into Teacher Education Program before enrolling. Full admission to the Teacher Education Program and Student Teaching is explained previously in this catalog.*

4 - 8 English, Language Arts & Reading

First Year	Second Year
ENGL 1301, 1302 6	ENGL Lit (2000 level) 3
MATH 1314, 1350 6	PSYC 2301 or SOCI 1301 3
HIST 1301, 1302 6	POLS 2301, 2302 6
PHIL 1370 3	PHYS 2411 4
COMM 1315 3	CHEM 2411 4
THEA 1310 3	MATH 3312, 3313 6
EACH 2110 1	ENGL 3320 3
PEGA 1 or 2	PEDG 3310*, 3320* 6
29-30	35

Third Year	Fourth Year
ENGL 3340, 4310..... 6	PEDG 3351.....3
ADV ENGL Lit 3	READ 4310..... 3
READ 3330 3	ENGL 3316, 3360, or 3370 3
READ 3390 3	READ 4344 3
SOCI 3301, 3302 6	PEDG 4340 3
PEDG 3391 3	PEDG 4950 9
BIOL 3411 4	SPED 4342..... 3
GEOL 3411 4	
32	27
Total Hours 123 - 124	

**You must apply and be pre-admitted into Teacher Education Program before enrolling. Full admission to the Teacher Education Program and Student Teaching is explained previously in this catalog.*

4 - 8 Math

First Year	Second Year
ENGL 1301, 1302 6	ENGL Lit (2000 level) 3
MATH 1314, 1316 6	PSYC 2301 or SOCI 1301 3
HIST 1301, 1302 6	POLS 2301, 2302 6
PHIL 1370 3	PHYS 2411 4
COMM 1315 3	CHEM 2411 4
FINE ARTS 3	MATH 3312 3
EACH 2110..... 1	MATH 2305 3
COSC Elec. 3	MATH 2318, 2310 6
PEGA 1 or 2	PEDG 3310*, 3320* 6
32-33	38
Third Year	Fourth Year
MATH 3300, 3311 6	PEDG 33503
MATH 3313, 3314 6	MATH 2376 3
MATH 3315, 3316 6	MATH 3317 3
COSC Elec. 3	READ 3393.....3
READ 3390..... 3	PEDG 43403
PEDG 3351 3	PEDG 4950 9
BIOL 2411 4	
GEOL 3411 4	
35	24
Total Hours 129 - 130	

**You must apply and be pre-admitted into Teacher Education Program before enrolling. Full admission to the Teacher Education Program and Student Teaching is explained previously in this catalog.*

4 - 8 Math/Science

First Year	Second Year
ENGL 1301, 1302 6	ENGL Lit (2000 level)..... 3
MATH 1314, 1316 6	PSYC 2301 or SOCI 1301 3
HIST 1301, 1302 6	POLS 2301, 2302 6
PHIL 1370 3	PHYS 2411 4
COMM 1315 3	CHEM 2411 4
THEA 1310 3	MATH 3312 3
EACH 2110 1	MATH 2310 3
HLTH 1370..... 3	PEDG 3310*, 3320* 6
PEGA 1 or 2	
32-33	32

Third Year	Fourth Year
MATH 3300 3	BIOL 4311 3
MATH 3311, 3313 6	GEOL 4411 4
MATH 3314, 3316 6	MATH 3317 3
BIOL 3411 4	PEDG 3350 3
GEOL 3411 4	PEDG 4340 3
GEOL 4390 3	PEDG 4950 9
READ 3390 3	
READ 3393 3	
PEDG 3351 3	
35	25
Total Hours 124 - 125	

**You must apply and be pre-admitted into Teacher Education Program before enrolling. Full admission to the Teacher Education Program and Student Teaching is explained previously in this catalog.*

4 - 8 Composite Science

First Year	Second Year
ENGL 1301, 1302 6	ENGL Lit (2000 level) 3
MATH 1314, 1350 6	BEHAVIORAL SCIENCE 3
HIST 1301, 1302 6	POLS 2301 3
PHIL 1370 3	PHYS 2411 4
COMM 1315 3	CHEM 2411 4
FINE ARTS 3	MATH 3313 3
EACH 2110 1	PHYS 1407 4
PSYC 2471 4	PHYS 1411 4
PEGA 1 or 2	PEDG 3310*, 3320* 6
33-34	34
Third Year	Fourth Year
CHEM 1406 4	GEOL 4380 or BIOL 4460 3 or 4
GEOL 3411 4	GEOL 4411 4
BIOL 3411 4	CHEM 4321 3
POLS 2302 3	PEDG 3350 3
READ 3390, 3393 6	PEDG 4340 3
BIOL 1406 4	PEDG 4950 9
GEOL 1404 4	
BIOL 4311 3	
PEDG 3351 3	
35	25-26
Total Hours 127 - 129	

**You must apply and be pre-admitted into Teacher Education Program before enrolling. Full admission to the Teacher Education Program and Student Teaching is explained previously in this catalog.*

4 - 8 Social Studies

First Year	Second Year
ENGL 1301, 1302 6	ENGL Lit (2000 level) 3
MATH 1314, 1350 6	HIST 2321, 2322 6
HIST 1301, 2301 6	POLS 2301, 2302 6
PHIL 1370 3	PHYS 2411 4
COMM 1315 3	CHEM 2411 4
THEA 1310 3	POLS 2305, 2304 6
EACH 2110 1	HIST 2373 3
HLTH 1370 3	PEDG 3310*, 3320* 6
ANTH 2351 3	
PEGA 1 or 2	
35-36	38

Third Year	
SOCI 3301, 3302	6
SOCI 3306	3
SOCI 3320	3
MATH 3312, 3313	6
BIOL 3411	4
GEOL 3411	4
READ 3390, 3393	6
PEDG 3350	3
	35
Total Hours 132-133	

Fourth Year	
POLS 4370	3
SOCI 4320	3
HIST 4311	3
PEDG 3351	3
PEDG 4340	3
PEDG 4950	9
	24

**You must apply and be pre-admitted into Teacher Education Program before enrolling. Full admission to the Teacher Education Program and Student Teaching is explained previously in this catalog.*

EC - 4 Generalist/EC - 12 Special Education

First Year	
ENGL 1301, 1302	6
MATH 1314, 1350	6
HIST 1301, 1302	6
PHIL 1370	3
COMM 1315	3
HLTH 1370	3
THEA 1310	3
EACH 2110	1
PEGA	1 or 2
	32-33

Second Year	
ENGL Lit (2000 level)	3
PSYC 2301 or SOCI 1301	3
POLS 2301, 2302	6
PHYS 2411	4
CHEM 2411	4
KINT 3370	3
PEDG 3310*, 3320*	6
MATH 3312, 3313	6
SPED 2371	3
	38

Third Year	
ARTS 3371	3
MUSI 3371	3
BIOL 3411	4
GEOL 3411	4
READ 3330, 3390	6
ENGL 4305	3
SOCI 3301, 3302	6
SPED 3305, 3372	6
SPED 4308	3
	38

Fourth Year	
SPED 4342	3
PEDG 3350, 3351	6
PEDG 4340	3
READ 3393	3
EACH 4303	3
SPED 4311	3
PEDG 4950	9
	30

Total Hours 138-139

**You must apply and be pre-admitted into Teacher Education Program before enrolling. Full admission to the Teacher Education Program and Student Teaching is explained previously in this catalog.*

4 - 8 Generalist/EC - 12 Special Education

First Year	
ENGL 1301, 1302	6
MATH 1314, 1350	6
HIST 1301, 1302	6
PHIL 1370	3
COMM 1315	3
THEA 1310	3
EACH 2110	1
PSYC 2301 or SOCI 1301	3
PEGA	1 or 2
	32-33

Second Year	
ENGL Lit (2000 level)	3
SPED 2371	3
POLS 2301, 2302	6
PHYS 2411	4
CHEM 2411	4
MATH 3312	3
ENGL ADV LIT	3
ENGL 3320	3
PEDG 3310*, 3320*	6
	35

Third Year	Fourth Year
ENGL 3340	MATH 3316
ENGL 3316, 3360, or 3370	ENGL 4310
BIOL 3411	SPED 4311
GEOL 3411	PEDG 3350
SOCI 3301, 3302	PEDG 3351
MATH 3311, 3313	PEDG 4340
SPED 3372	SPED 3305
SPED 4307, 4308	PEDG 4950
READ 3390	
38	30
Total Hours 135-136	

**You must apply and be pre-admitted into Teacher Education Program before enrolling. Full admission to the Teacher Education Program and Student Teaching is explained previously in this catalog.*

Secondary – Certification

Students desiring to certify in Secondary Education must first earn a degree in a teaching discipline. For degree and certification advisement purposes, students should report to their major department. Twelve hours must be advanced (3000-4000 level).

(Certification options are listed below)

Art (All Levels) See Department of Art.

Life Science See Department of Biology.

Dance (All Levels) See Department of Music, Theatre, and Dance.

English, Language Arts and Reading (8-12) See Department of English and Foreign Languages.

French (8-12) See Department of English and Foreign Languages.

Health (8-12) See Department of Health and Kinesiology.

Hearing Impaired (All Levels) See Department of Communication Disorders and Deaf Education.

History (8-12) See Department of History.

Journalism (8-12) See Department of Communication.

Life Science (8-12) See Department of Biology.

Vocational Home Economics (8-12) See Department of Family and Consumer Sciences.

Mathematics (8-12) See Department of Mathematics.

Music (All Levels) See Department of Music, Theatre, and Dance.

Kinesiology (All Levels) See Department of Health and Kinesiology.

Physical Science (8-12) See Department of Chemistry.

Social Studies (8-12) See Dean of College of Arts and Sciences.

Spanish (8-12) See Department of English and Foreign Languages.

Speech (All Levels) See Department of Communication.

Theatre (All Levels) See Department of Music, Theater, and Dance.

Professional Pedagogy Courses

Students must apply and be accepted into the Pre-Admission to Teacher Education to enroll in PEDG 3310 and/or PEDG 3320. Students must be unconditionally admitted to Teacher Education to enroll in Pedagogy courses subsequent to PEDG 3310 and PEDG 3320.

Early Childhood (EACH)

- 2110 Introduction to Teacher Education** 1:1:0
An orientation to the organization and professional components of dedication in the United States with emphasis on Teacher Education in Texas.
Prerequisite: Sophomore standing.
- 4303 Instructional Strategies for Early Childhood** 3:3:0
A comprehensive study of methods and materials for early childhood/elementary age children. Focus on oral language experiences, science and mathematics concepts and creative expression during a field based semester.
Prerequisite: Junior standing.
- 4305 Research of Early Childhood Curriculum Content** 3:3:0
An investigation of research studies in learning theories and instructional practices for early childhood education.
Prerequisite: Senior standing or Post-Baccalaureate; EACH 4303.

Professional Pedagogy Courses (PEDG)

- 1271 College Reading and Writing Skills** 2:1:2
Provide procedures, practices, and individual help with reading assignments, writing papers, taking essay examinations, and taking lecture notes. Not applicable to TEA certification plans.
- 3310 Child and Adolescent Development** 3:3:0
A study of the psychological development of children from birth through adolescence with emphasis on physical, cognitive and social development processes.
Prerequisite: Pre-Admission into Teacher Education.
- 3320 Human Learning: Educational Application and Assessments** 3:3:0
Principles of psychological problems involved in education with emphasis on learning theories and the practical application of psychological principles to learning. Use of tests and assessments to improve instructional decisions.
Prerequisite: Pre-Admission into Teacher Education.
- 3350 Mathematics/Science Methods for Elementary School Teachers** 3:3:0
This course for professional elementary school teachers includes instructional strategies, learning activities, lesson planning, diagnostic techniques, and methods of evaluation of mathematical and science learning.
Prerequisite: Be admitted to Teacher Education; PEDG 3310 and 3320.
- 3351 Language Arts and Social Studies Methods for Elementary School Teachers** 3:3:0
This course includes instructional strategies, learning activities, lesson planning, and methods of evaluation for teaching social studies and language arts in the elementary schools. Emphasis is on subject matter integration.
Prerequisite: Be admitted to Teacher Education; PEDG 3310 and 3320.
- 3380 Secondary Curriculum and Methodology** 3:3:0
The structure and organization of the curriculum, materials, methods, and types of assessment used in secondary schools.
Prerequisite: Student must be enrolled the semester prior to Student Teaching; PEDG 3310 and 3320.
- 3391 Materials and Resources for Teaching Reading** 3:3:0
The course is a concentration on planning, producing, selecting, organizing and evaluating instructional materials and the technology/multimedia to be used in teaching of language and literacy development of a balanced reading program.
Prerequisite: READ 3390.
- 4301 Institute or Workshop in Education** 3:3:0
A number of institutes or workshops are designed, to advance the professional competence of teachers. For each, a description of the particular area of study will be indicated. May be repeated for credit when nature of workshop or institute differs sufficiently from one previously taken.
- 4306 Special Topics** 3:3:0
Significant topics in Elementary, Secondary and Special Education. The description of the particular area of study will appear on the printed semester schedule. A student may repeat for a maximum of six semester hours when the area of study is different.
Prerequisite: Be admitted to Teacher Education.
- 4340 Managing the Early Childhood/Elementary Environment** 3:3:0
A course of study to explore through comparison, analysis, evaluation, and practice eclectic theories and diverse strategies related to effective classroom management. Factors that contribute to a total learning environment with emphasis on helping students become self-regulated learners are probed.
Prerequisite: Students must enroll the semester prior to Student Teaching; PEDG 3310 and 3320.

- 4380 Secondary Methodology and Classroom Management** 3:3:0
A course of study in exploring the theories and diverse strategies related to effective classroom management. Factors that contribute to a total learning environment with emphasis on helping students become self-regulated learners are probed.
Prerequisite: Students must enroll the semester prior to Student Teaching; PEDG 3310 and 3320.
- 4920 Student Teaching in the Secondary School** 6:A:0
Supervised observation and teaching in the secondary school.
Prerequisite: See Admission to Student Teaching in this catalogue. All day in secondary professional semester classroom, five days per week for 10 weeks.
- 4930 Student Teaching-Special** 6:A:0
Special student teaching situations designed for students working all level certificates, special education, early childhood education and speech and hearing.
- 4950 Student Teaching in the Elementary School** 6:A:0
Supervised observation and teaching in the elementary school.
Prerequisite: See Admission to Student Teaching in this catalogue. Class: All day in elementary professional semester. Meet criteria for admission to student teaching professional semester.

Reading (READ)

- 3326 Reading/Literature Strategies for the Content Areas** 3:3:0
This course is designed to provide the basic principles, concepts and procedures of reading and to enable prospective teachers to incorporate reading instructional techniques effectively into the content areas. Emphasis will be placed on the sound teaching practices within the confines of the content area classroom.
Prerequisite: Junior standing.
- 3330 Language Arts in Early Childhood and Elementary Schools** 3:3:0
The study and use of materials and techniques in the teaching of oral and written communication in the early childhood and the elementary school years.
Prerequisite: Junior standing; PEDG 3320.
- 3360 Children's and Young Adult Literature** 3:3:0
A study designed to provide students with information about children's books, periodicals and related media and their use with children. Techniques and materials for motivating children to develop a continuing interest in reading.
Prerequisite: Junior be admitted to Teacher Education.
- 3390 Literacy Development and Reading Instruction in the Elementary School** 3:3:0
Factors related to literacy development and elementary reading instruction in a diverse classroom; appropriate assessment and instructional techniques.
Prerequisite: Junior standing and READ 3330 (SPED 3305 Special Education only).
- 3392 Materials and Resources for Teaching Reading in the Secondary School** 3:3:0
The course is a concentration on planning, producing, selecting, organizing and evaluating instructional materials and technology/multimedia to be used in teaching of language and literacy development for a balanced language arts program.
Prerequisite: READ 3326, 3360.
- 3393 Emergent Literacy** 3:3:0
A study of the language development of the child with emphasis on the interrelatedness of all aspects of language acquisition and appropriate practices for developing these skills including phonemic awareness, alphabetic principle and the knowledge of teaching phonics.
Prerequisite: Be admitted to Teacher Education.
- 4310 Diagnostic Prescriptive Procedures for Literacy Development** 3:3:0
Techniques for ascertaining reading strengths and weaknesses. Planning and implementing instruction to meet individual needs.
Prerequisite: Junior standing and READ 3390.
- 4344 Integrating Reading & Media** 3:3:0
Instruction and application of integrated reading methods and strategies through use of multimedia including, but not limited to video, audio, film, virtual, simulated and interactive software, and the Internet.
Prerequisites: READ 3330, 3360, 3390 and PEDG 3391, be admitted to Teacher Education.

- 4390 Practicum: An Application of Reading Instruction** 3:3:0
Participation in a directed field experience. The students will participate in the delivery techniques via activities for effective reading instruction
Prerequisite: READ 3330, 3360, 3390, 3391, and 4310.

Special Education (SPED)

- 2371 Foundations of Special Education** 3:3:0
An orientation to background, terminology and programs for those who are exceptional. Designed as an overview of Special Education. A first course for those planning to certify in Special Education.
- 3305 Instructional Alternatives for Teaching Reading and Language Arts to the Exceptional Learner** 3:3:0
Identification of skill deficiencies, modification of curriculum, designing and implementation of instructional strategies for pupils evidencing disabilities in reading and language arts.
Prerequisite: PEDG 2371, be admitted to Teacher Education.
- 3372 Behavior Modification & Classroom Management for the Student with Exceptionalities** 3:3:0
Principles of normal and abnormal child growth and development. Nature and causes of behavioral and physical characteristics and basic techniques of management.
Prerequisite: SPED 2371.
- 4307 Interventions for the Inclusive Classroom** 3:A:0
Instructional model, methodologies, and materials appropriate for the exceptional learner in an inclusive classroom. The student will be expected to spend at least fifty percent of the course time involved directly in a practicum-based setting.
Prerequisite: SPED 3305.
- 4308 Appraisal Processes in Programming for the Exceptional Individual** 3:3:0
Formal and informal methods of appraising the educational needs of the exceptional learner and the use of interpretative data to prescribe appropriate curriculum modification, instructional materials, teaching strategies and classroom management.
Prerequisite: SPED 2371, 3372.
- 4309 Curriculum and Instructional Processes for Student with Mild/Moderate Exceptionalities** 3:3:0
Includes instructional models, methodologies and materials appropriate for the learner with mild/moderate disabilities. Field based and technology components.
Prerequisite: SPED 2371, 3372, and 4307.
- 4311 Curriculum and Instructional Processes for Students with Severe/Profound Exceptionalities** 3:A:0
(Field-based and Technology component)
Instructional strategies that include models, methodologies, and materials appropriate for the learner with severe/profound disabilities.
Prerequisite: SPED 2371, 3372, and 4307.
- 4320 Seminar in Professional Development** 3:3:0
Focuses on the organization and professional components of American Education, Historical and current issues of education today.
Prerequisite: Student teaching component.
- 4342 Diversity of Learners**
A study of new diversity in the classroom and how the community may affect learning. Interns will learn how to create a classroom environment in which the diversity of the group and the uniqueness of individuals are recognized and celebrated.
Prerequisite: Junior standing; SPED 2371, 3372, and 4307.

Department of Family and Consumer Sciences

Department Chair: Connie Ruiz

**118 Family and Consumer Sciences Bldg.
Phone 880-8663**

Associate Professors: Ruiz, Shows

Assistant Professors: Chalambaga, Droddy

Instructors: Dahm, Devillier, Eisen

Clinical Instructor: Killough

Instructor: Duit

Bachelor of Science in Family and Consumer Sciences

The Department of Family and Consumer Sciences offers undergraduate instruction leading to the Bachelor of Science degree in Family and Consumer Sciences. The program is designed to prepare students for a professional career as well as for graduate study.

The Department offers a general program in Family and Consumer Sciences, as well as opportunities for specialized professional preparation in the areas of teacher certification, foods/nutrition/dietetics, family studies, fashion retailing and merchandising, interior design, and hospitality management. A Master of Science degree in Family and Consumer Sciences is offered, as well as a Dietetic Internship. These programs are described in the Graduate Bulletin. Students may minor in Family and Consumer Sciences by earning 18 semester hours of credit approved by the department head.

The Bachelor of Science degree in Family and Consumer Sciences will be awarded upon the completion of the following requirements:

- A. Meet the University's degree requirements as described in the section on Academic Policies and Procedures.
- B. Complete the Family and Consumer Sciences core curriculum requirements:
 - FCSC 1377 Intimate Relationships: Marriage and the Family
 - FCSC 3300 Consumer Economics
 - FCSC 4301 Senior Seminar
- C. Attain a 2.0 grade point average in FCS courses.
- D. Complete one of the degree programs described in the following pages.

Suggested Programs of Study

Family and Consumer Sciences – General

Advisor: Kim Chalambaga

124 FCS Bldg.

The general program provides a broad background of preparation for the student who wishes to work as a Family and Consumer Science Professional in one of many varied career options.

First Year	
Eng Comp.....	6
Math (core).....	6
Lab Science (core)	8
PHIL 1370 Phil of Knowledge.....	3
Computer Sci	3
FCSC 1375 Visual Design	3
FCSC 1377 Intimate Relationships	3
	32

Third Year	
HIST 1301-1302	6
FCSC 3300 Consumer Economics.....	3
FCSC 1315 Food Preparation	3
FCSC 3340 Child & Adolescent Dev.....	3
FCSC 3000-4000 Elective	3
FCSC 3000-4000 Elective	3
Area of emphasis	9
	30

Second Year	
Eng Lit	3
FCSC 2371	3
POLS 2301, 2302	6
Soc Sci (Core).....	3
FCSC 1320 Textiles	3
FCSC 1322 Nutrition/Diet	3
Fine Arts (Core)	3
Elective.....	6
PEGA	1
	31

Fourth Year	
FCSC 3316 Family Resources	3
FCSC 4101 Senior Seminar	1
FCSC 4327	3
FCSC 4330	3
FCSC 4350 Consumer Housing.....	3
FCSC 4390 Family Resource Management.....	3
FCSC 4367 Field Experience	3
COMM or foreign language (core).....	3
Area of emphasis	9
	31

Home Economics Teacher Certification – General

Advisor: Frances Droddy

130 FCS Bldg.

The teacher certification program provides professional training for careers requiring technical knowledge of family and consumer sciences/ home economics, as well as expertise in instructional methods. Graduates of this curriculum meet the state requirements for Vocational Home Economics Education. Students must meet admission and certification requirements of the Lamar University Teacher Education Program outlined elsewhere in this Bulletin. Before certification, successful completion of the Examination for the Certification of Educators in Texas (ExCET) is required.

Suggested Program of Study

First Year	
Eng Comp.....	6
Lab Science	4
MATH (core)	6
PHIL 1370 Philosophy of Knowledge.....	3
FCSC 1315 Food Preparation	3
FCSC 1475 Visual Design	3
FCSC 1377 Intimate Relationships	3
PEGA	1
	29

Second Year	
Eng Lit	3
Lab Science	4
POLS 2301-2302	6
FCSC 1320 Textiles	3
FCSC 1328 Clothing I	3
FCSC 1322 Nutrition/Diet	3
FCSC 3340 Child & Adolescent Dev.....	3
Fine Arts (Core)	3
SPED 2371 Foundations of Special Education ..	3
	31

Third Year

COMM 1315 Pub Speaking	3
HIST 1301-1302	6
PEDG 3310	3
PEDG 3320 Human Learning	3
FCSC 4333 Child Guidance	3
FCSC 3380 Principles of Presentation	3
FCSC 2371 Public/Inst Fac Mgmt	3
FCSC 3300 Consumer Economics.....	3
Soc Sci (core)	3
FCSC 3390 Family Seminar OR	
FCSC 4327 Parenting.....	3
	33

Fourth Year

READ 3326 Reading Strategies	3
FCSC 4350 Consumer Housing.....	3
FCSC 4301 Senior Seminar.....	3
FCSC 4308 World of Work	3
FCSC 4330 Kitchen Design & Equipment.....	3
FCSC 4380 Classroom Strategies for Voc. H.E. ...	3
FCSC 4390 Family Resource Management.....	3
PEDG 4920 Student Teaching.....	9
PEDG 4360 Classroom Management	3
	33

Dietetics

Advisors: Connie Ruiz
Amy Shows

118 FCS Bldg.
132 FCS Bldg.

The academic curriculum is approved by the American Dietetic Association (ADA) as a Didactic Program in Dietetics. Graduates of the program are eligible to apply for an ADA-accredited dietetic internship. After successful completion of an internship, an individual is eligible to take the Registration Examination for Dietitians and, upon passing, become a Registered Dietitian.

Suggested Program of Study

First Year

PHIL 1370 Philosophy of Knowledge	3
Eng Comp	6
BIOL 2401-2402	8
MATH (core).....	3
PSYC 2301	3
FCSC 1315 Food Preparation	3
FCSC 1322 Nutrition/Diet	3
HLTH 1370	3
	32

Second Year

Eng Lit (core)	3
POLS 2301-2302	6
COSC 1371 Microcomputers	3
CHEM 1406-1408	8
FCSC 1377 Intimate Relationships	3
SOCI 1301	3
Fine Arts (core).....	3
Elective	3
PEGA	1
	33

Third Year

HIST 1301-1302	6
BIOL 2420	4
FCSC 2373 Food & Beverage Controls & Syst.....	3
FCSC 2377 Facilities Layout and Design	3
FCSC 3300 Consumer Economics	3
FCSC 3330 Nutritional Biochemistry	3
FCSC 4307 Nutrition Thru Life	3
FCSC 2371 Quantity Food Systems Mgmt	3
Elective	3
	31

Fourth Year

ENGL 3310 Tech Report Writ or OFAD 3350.....	3
COMM 3340 Interviewing	3
MATH 1342 Elem Stat OR PSYC 2471	3
FCSC 3320 Advanced Nutrition	3
FCSC 4101 Senior Seminar	1
FCSC 4300 Diet Therapy I	3
FCSC 4315 Diet Therapy II	3
FCSC 4317 Community Nutrition	3
FCSC 4347 Advanced Foods	3
FCSC 4360 Org. Behavior & Mgmt	3
	28

Foods and Nutrition

Advisors: Connie Ruiz

118 FCS Bldg.

Amy Shows

132 FCS Bldg.

A student selecting the Foods and Nutrition Program works closely with the advisor in structuring a course of study compatible with the student's career goals and nutrition interests. The student has the opportunity to obtain an 18-hour concentration in a related field, such as health, science, business, hospitality management, psychology, kinesiology, etc.

Suggested Program of Study

First Year	
PHIL 1370 Philosophy of Knowledge	3
Eng Comp	6
BIOL 2401-2402	8
Math (core)	3
Social Science (core)	3
FCSC 1315 Food Preparation	3
FCSC 1322 Nutrition/Diet	3
HLTH 1370	3
	32

Third Year	
HIST 1301-1302	6
FCSC 3300 Consumer Economics	3
FCSC 4307 Nutrition Thru Life	3
FCSC 3000-4000 Nutrition	9
Supporting Concentration	9
	30

Second Year	
Eng Lit (core)	3
POLS 2301-2302	6
Comm (core)	3
Math (core)	8
FCSC 1377 Intimate Relationships	3
BIOL 2420	3
Fine Arts (core)	3
Elective	3
PEGA	1
	29

Fourth Year	
FCSC 4101 Senior Seminar	1
FCSC 4317 Community Nutrition	3
FCSC 3000-4000 Nutrition	9
Supporting Electives	6
Supporting Concentration	9
	28

Family Studies

Advisor: Kim Chalambaga

124 FCS Bldg.

The Family Studies area prepares the student for a career in private and governmental agencies that serve children and families. Courses equip the student to aid individuals and families in solving problems related to personal and family relationships as well as consumer skills. Field experiences required by various courses utilize the Lamar University Early Childhood Development Center and various social agencies.

Suggested Program of Study

First Year	
Eng Comp	6
Math (core)	3
Lab Science (core)	8
FCSC 1377 Intimate Relationship	3
Fine Arts (Core)	3
Soc Sci (Core)	3
PHIL 1370 Phil of Knowledge	3
PEGA	1
	30

Second Year	
COMM or Foreign Language	3
Eng Lit	3
Math (core)	3
POLS 2301-2302	6
Computer Science	3
FCSC 1322 Nutrition/Diet	3
Elective	3
Minor	6
	30

Third Year	Fourth Year
HIST 1301-13026	FCSC 4333 Child Guidance3
FCSC 3300 Consumer Economics3	FCSC 4101 Senior Seminar1
FCSC 3340 Child & Adolescent Dev3	FCSC 4307 Nutr thru Life3
FCSC 3316 Family Resources3	FCSC 4327 Parenting3
FCSC 4326 Family Violence OR	FCSC 3390 Sem in Family & Human Rel3
FCSC 4328 Single Parent Fam3	FCSC 4367 Internship3
ANTH 3310 or SOCI 33503	Electives6
FCSC 4329 Family Communication3	Minor6
Minor6	
30	28

Fashion Retailing and Merchandising

Advisor: Anita Devillier

116 FCS Bldg.

The Fashion Retailing and Merchandising specialization provides professional training for positions in fashion coordination, visual merchandising, buying and retail management. The curriculum includes on-the-job training through an internship program. Students may elect to study at the Fashion Institute of Technology in New York during their Junior year.

Suggested Program of Study

First Year	Second Year
PHIL 1370 Philosophy of Knowledge3	Eng Lit3
Eng Comp6	HIST 2373 or 13013
MATH (core)3	Lab Science (core)4
Lab Science (core)4	MATH (core)3
COSC 13713	POLS 23013
FCSC 1370 Social Aspects of Clothing3	ECON 13013
FCSC 1375 Visual Design3	FCSC 1328 Clothing I OR
FCSC 1377 Intimate Relationships3	FCSC 2383 Apparel Analysis/Evaluation3
FCSC 1320 Textiles3	FCSC 2379 Visual Merchandising & Display3
PEGA1	FCSC 2385 Intro to Fashion Retailing3
32	COMM (core) or Foreign Language3
	31
Third Year	Fourth Year
Elective3	MKTG 33303
FCSC Electives6	OFAD 43403
HIST 2374 or 13023	BULW 33103
ACCT 23013	Business Elective 3000-40003
POLS 23023	FCSC 4101 Senior Seminar1
MKTG 33103	FCSC 4320 Fashion History3
ARTS 13013	FCSC 4340 Fashion Production & Distribution ..3
FCSC 3300 Consumer Economics3	MGMT 33103
FCSC3	Elective3
30	FCSC 4367 Field Experience3
	MGMT 33303
	31

Interior Design

Advisor: Sarajane Eisen

126 FCS Bldg.

The Interior Design specialization provides professional training for a wide range of design problems extending from personal to public environments. The program provides the student with a well rounded education in the needs of individuals and families in addition to an in-depth study of interior design. The program also provides the student with a minor in art. Supporting courses, such as architectural graphics and computer aided design (CAD) develop skills in areas that are essential in today's market. Lamar interior design students have an active student chapter of the American Society of Interior Design (ASID), involving members in field experiences, fund-raising activities, student design exhibitions, and design competitions.

Suggested Program of Study

First Year	
Eng Comp	6
MATH (core)	3
HIST 2373-2374 or 1301-1302	6
FCSC 1375 Visual Design	3
ARTS 1316 Drawing I	3
ARTS 1301 Art Appreciation	3
PHIL 1370 Philosophy of Knowledge.....	3
FCSC 1376 Architectural Graphics	3
FCSC 2375 History of Arch & Int Des I.....	3
33	

Third Year	
ACCT 2301 Prin Accounting	3
POLS 2301-2302	6
Lab Science (core)	4
FCSC 3307 Comp Interior Design	3
FCSC 3305 Int Des Studio I - Residential Des	3
ARTS 1303 Art History Survey I	3
FCSC 3300 Consumer Eco.....	3
FCS 3327 Treatments of Interior Design	3
Soc Sci (core)	3
ARTS 3313	3
34	

Second Year	
Eng Lit	3
COMM or Foreign Language	3
FCSC 1377 Intimate Relationships	3
MATH (core)	3
FCSC 1320 Textiles	3
FCSC 2381 Hist Arch & Int Des II	3
FCSC 2387 Intro to Interior Design.....	3
PHYS 1407	4
ARTS 1312 Design II	3
PEGA	1
FCSC Elective	3
32	

Fourth Year	
FCSC 3350 Interior Design Studio II	
Commercial Design	3
FCSC 4305 Interior Design Studio III	3
FCSC 4367 Field Experience	3
FCSC 4344 CAD.....	3
ARTS 1304 Art History Survey II	3
Art Elective (must include lab).....	3
FCSC 4344 CAD.....	3
FCSC 4101 Senior Seminar.....	1
Supporting Electives (Bus/Psy)	6
28	

Restaurant and Institutional Food Management*

Advisor: Molly Dahm

128 FCS Bldg.

The Hospitality Management program is designed to provide students with the competencies they need to succeed in and contribute to an industry that continues to realize a shortage of management talent resulting from a growing travel and tourism industry. This program will qualify the student for a wide variety of careers in the hospitality industry, including management positions in hotels, motels, restaurants, resorts, private clubs, catering operations, hospital foodservice, school foodservice, rail feeding (AMTRAK), cruise ship dining, as well as, vendors supplying these activities. A number of scholarships are available from the Sabine Area Restaurant Association, as well as the national and state restaurant associations.

Suggested Program of Study

First Year	Second Year
Eng Comp.....6	Eng Lit3
MATH (core)3	ECON 1301 Principles & Policies3
Lab Science (core)8	POLS 2301-23026
PHIL 1370 Philosophy of Knowledge.....3	ACCT 2301.....3
FCSC 1315 Food Preparation3	FCSC 1377 Intimate Relationships3
FCSC 1371 Public Hlth & Safety Mgmt3	FCSC 1374 Lodging and Property Mgmt3
FCSC 1372 Intro to Hospitality Industry3	FCSC 2324 Commercial Food Production I3
FCSC 2372 Menu and Service Mgmt3	FCSC 2371 Public/Inst Fac Mgmt.....3
PEGA1	FCSC 3314 Food & Bev Controls and Systems....3
33	FCSC 3313 Facilities Layout & Design3
	33
Third Year	Fourth Year
COMM OR Foreign Language3	FCSC 4311 Travel & Tourism3
HIST 1301-13026	FCSC 3360 Publ/ Institu Facility Mgmt3
MATH (core)3	FCSC 4357 Operational Analy for Hosp Mgr3
Fine Arts (core)3	FCSC 4367 Field Experience3
FCSC 3300 Consumer Economics.....3	FCSC 4101 Senior Seminar1
FCSC 2374 Hospitality Practicum or Elective3	MGMT 3330 Human Resources Management3
FCSC 2376 Convention, Cater, Meeting Mgmt....3	FCSC 4312 OR BULW Business Law3
FCSC 2370 Bev Mgmt & Wine Appreciation3	FCSC 4314 OR MKTG 33103
FCSC Hospitality Electives6	FCSC 4360 OR MGMT 33103
33	FCSC Hospitality Electives6
	31

* Pending approval by the Texas Higher Education Coordinating Board

Family and Consumer Sciences Courses (FCSC)

1301* Chef's Essentials	3:3:0
This course introduces the new culinary student to the basic concepts, tools and techniques of the trade. Topics include standards of professionalism, careers in the culinary arts, the organizational structure of a commercial kitchen, culinary terminology, reading and understanding recipes, kitchen tools and equipment, sanitation and safety. Students will achieve competency in knife handling skill before moving on to learning the fundamentals of stocks, soups and sauces presentation.	
1315 Food Preparation/Meal Management	3:2:4
Study of food science principles and their application in the preparation of foods and food products.	
1320 Textiles	3:3:0
A study of the physical and chemical properties of textiles. Emphasis production of fabrics and consumer selection of products.	
1322 Nutrition/Diet	3:3:0
Introduction to nutrition including functions, sources, characteristics, and recommended intake of nutrients; digestion; absorption, and metabolism; special needs during various phases of the life cycle; diet therapy and patient assessment, education and counseling during illness.	
1328 Clothing I	3:2:4
A study of basic construction techniques for making garments of professional quality. Students learn to custom fit commercial patterns.	
1370 Social Aspects of Clothing	3:3:0
An interdisciplinary approach to clothing emphasizing the cultural, psychological, sociological and economical aspects of wearing apparel.	
1371 Public Health and Safety Management	3:3:0
A study of sanitation and safety standards and the responsibilities of personnel in the foodservice industry. Economic aspects of providing and managing these services is addressed. May lead to NRA certification.	

- 1372 Introduction to the Hospitality Industry** 3:3:0
Overview of the hospitality industry, historical perspectives, analysis of the industry as a profession, along with professional opportunities and future outlook. Includes insight into the critical role of understanding and working with cultural diversity.
- 1373 Purchasing for the Foodservice and Lodging Industry** 3:3:0
Insight into the role of the professional buyer in the commercial hospitality industry and the skills and knowledge necessary to select and procure quality goods at the appropriate time and cost for a hospitality operation.
- 1374 Lodging and Property Management** 3:3:0
Survey of the lodging industry including history, growth, current issues, and the manager's role with emphasis on front office procedures and audit. Related facility management and services in the private club industry.
- 1376 Architectural Graphics** 3:2:2
Introduction to graphic communication techniques for interior design: architectural lettering, mechanical drafting and multi-view projections. Interior and exterior design of the home. Complete plans for one-story residence will be drawn by each student.
- 1375 Visual Design** 3:2:3
Study of art elements with experiences in applying the principles of design. Develops an appreciation of natural and man-made designs in the daily environment including cultural influences.
- 1377 Intimate Relationships: Marriage and the Family** 3:3:0
A study of the individual and the family. Special emphasis on individual development, interpersonal relationships, sexuality, tasks of marriage, work and the family and parenting skills in relation to the family life cycle.
- 2170 Customer Relations in the Service Industry** 1:1:0
The leading determinant of success in the service industry is the ability to deliver quality customer service. This course reviews the essentials of anticipating customer needs through the study of the Service Cycle and active role play.
- 2303 Commercial Baking** 3:1:4
Practical study of the basic equipment, tools, and techniques required to prepare basic breads, pastries, and desserts for commercial food operations. Students develop an understanding of baking science and recipe conversions.
Prerequisite: FCSC 1315
- 2324 Commercial Foods Production I** 3:2:3
Concepts and hands-on skills related to food production in a commercial environment. A presentation of the primary pieces of commercial food equipment, its proper use, care, and sanitation. Students produce typical commercial hot foods including appetizers, soups and sauces, egg and farinaceous dishes, and meat and fish entrees.
- 2370 Beverage Management and Wine Appreciation** 3:2:2
A survey of the beverage service sector of the hospitality industry including spirits, wines, and beers; purchasing, resource control, marketing, physical plant requirements, and staffing. Additional emphasis on tasting and description of wines; service and selection of wines to enhance foods.
- 2371 Quantity Foodservice Systems Management** 3:2:3
Overview of the management functions related to quantity food production service. Lab experiences in the field and catering function required.
- 2372 Menu and Service Management** 3:3:0
Application of foodservice management principles to the menu and the activities it generates. Analysis of menu profitability. Additional emphasis on service management.
- 2374 Hospitality Practicum I** 3:A:0
Introductory field experience in a hospitality environment; designed to provide the student with practical experience in a particular area of expertise. 150 hours.
- 2375 History of Architecture and Interior Design I** 3:3:0
Interiors, exterior architecture, furnishings, and cultural influences of ancient times through the 17th century.
- 2376 Convention, Meeting, and Catering Management** 3:3:0
Investigation of group markets with special needs for services, lodging, and food with beverage components. Related planning procedures with emphasis on catering services.
- 2378 Child Nutrition** 3:3:0
A study of the unique nutritional needs of children from birth through adolescence. Attention is given to special diet and feeding techniques.
- 2379 Visual Merchandising and Display** 3:3:0
Techniques for visual presentation used to maximize product sales potential; focus is on display and merchandising a sales area.

- 2381 History of Architecture and Interior Design II** 3:3:0
Interiors, exterior architecture, furnishings, and cultural influences from 17th century through the present.
Prerequisite: FCSC 2375.
- 2382 Child and Adolescent Development** 3:3:0
A study of the dynamics of growth and development of children and youth. Observation experiences required in approved child care setting.
- 2383 Apparel Analysis and Evaluation** 3:3:0
Analysis of the construction quality, aesthetic properties and design components of apparel. Evaluation skills for mass produced apparel is emphasized.
- 2384 Design** 3:2:4
Foundations of flat pattern design. Development of foundation blocks for use in design of various garment styles and details. Introduction to fashion illustration.
Prerequisites: FCSC 1328
- 2385 Introduction to Fashion Retailing** 3:3:0
An introductory study of the contemporary aspects of retailing with application to fashion merchandising & retailing.
- 2386 Independent Study in Hospitality Management** 3:3:0
Designed to afford independent learning experiences. Under supervision, the student pursues the study of individual interests in the area of hospitality management.
- 2387 Introduction to Interior Design** 3:3:0
Introductory lecture course for interior design majors analyzing the elements and principles of design as applied to interior environments. Fundamentals of professional requirements, space planning, human factors, structural and environmental systems, properties and application of interior materials and components of architectural and regional style.
Prerequisite: FCSC 1375 or approval of instructor.
- 3300 Consumer Economics** 3:3:0
Consumer principles and rational decision-making skills for coping with consumer issues affecting families and individuals.
- 3302 Advanced Clothing** 3:2:4
Draping techniques of apparel through manipulation of fabric on a three-dimensional form: sketching, drafting, truing and garment construction.
Prerequisites: FCSC 1328 and FCSC 2384 or with approval of instructor.
- 3306 Merchandising Products** 3:3:0
A study of textile and non-textile products. Special emphasis on housewares, furniture, accessories, home furnishings, and appliances.
- 3305 Interior Design Studio I Residential Design** 3:2:3
Studio experience involving architectural and interior aspects of residential interiors. Emphasis on human factors and needs of individuals and families within the context of universal design, taking into consideration cultural, regional, and geographic influences. Presentation analysis and techniques, estimates and specifications of home materials including floor and wall coverings, window treatments, furnishings, accessories and display.
Prerequisites: FCSC 1375, 1320, 1376 and 2387.
- 3307 Comprehensive Interior Design** 3:3:0
Study of structure, building materials, construction techniques, mechanical and electrical systems, working drawings, specifications, lighting sources, installations, and energy efficiency as applied to residential and commercial interiors. In-depth study of codes and regulations required or specified by law, including the Americans with Disabilities Act.
Prerequisites: FCSC 1376, 2387 or approval of instructor.
- 3312 Entrepreneurship in the Hospitality Industry** 3:3:0
Designed for those especially interested in entrepreneurship or innovation in their particular environment. Research and overview relating to ownership and development of lodging and foodservice properties.
- 3313 Facilities Layout and Design** 3:3:0
Overview of the planning, development, and feasibility aspects of building or renovating a foodservice facility. Application of principles of work and flow analysis, spatial relationships, and equipment selection as they relate to the overall layout and design.
Prerequisite: FCS 2371.

- 3314 **Food and Beverage Controls and Systems** 3:3:0
A Study of the analytical techniques used in controlling resources in the foodservice and lodging industry.
Prerequisite: Completion of mathematics requirement.
- 3316 **Family Resources** 3:3:0
A survey of private and governmental agencies that serve children and families.
- 3317 **Front Office Management** 3:3:0
Functions and activities of the lodging front office which support guest transactions and services; forms, equipment, and planning tools integral to a successful property.
- 3318 **Housekeeping for Lodging Properties** 3:3:0
Functions, activities, and responsibilities of the housekeeping manager in a lodging property; planning and forecasting tools, equipment, and staffing are addressed.
- 3320 **Advanced Nutrition** 3:3:0
The advanced study of normal nutrition including digestion, absorption, and metabolism of proteins, carbohydrates, lipids, vitamins and minerals.
Prerequisites: FCS 1322, BIOL 2401-2402
- 3324 **Commercial Food Production II** 3:2:4
Concepts and hands-on skills related to advanced preparation of foods for the commercial environment with particular emphasis on techniques for cold food preparation and the artistic presentation of food selections for dining rooms and buffets.
Prerequisites: FCSC 1315, 2303, 2324
- 3327 **Treatments of Interior Design** 3:2:3
A study of materials and technology applied to interior environments. Emphasis on quality of materials, appropriate application, creative techniques, estimation and specification. Presentation techniques.
Prerequisites: FCS 133, 231 or approval of instructor.
- 3330 **Nutritional Biochemistry** 3:3:0
Chemistry of carbohydrates, lipids, proteins, vitamins and minerals. Thorough coverage of the major energy-generating pathways.
Prerequisite: CHEM 1406, 1408
- 3340 **Child and Adolescent Development** 3:3:0
A study of human development from the prenatal period through adolescence. Physical, cognitive, social, and emotional development are addressed. Observations are required in approved child care settings.
- 3360 **Public and Institutional Facilities Management** 3:3:0
Analysis of public and recreational aspects of the hospitality industry focus on sports and entertainment. Addresses issues of staffing, customer service, concession operations, legal issues, financial administration, marketing, and promotion.
- 3350 **Interior Design Studio II — Commercial Design** 3:2:3
Studio experiences dealing with small to medium commercial building interiors, materials, environmental controls and interior furnishings. Emphasis on universal design and public welfare. Study of the impact of codes and regulations and the needs of special population groups upon the design of commercial spaces.
Prerequisites: FCSC 3350, 3327 and ARTS 3313.
- 3370 **Fashion Promotion and Advertising** 3:3:0
Evaluation of various promotion activities relating to advertising, visual merchandising, publicity, and special events. Students review research on selected consumer groups and develop promotional campaigns to reach those groups.
- 3380 **Principles of Presentation** 3:3:0
Development of curricula and techniques for presenting to groups. Provides experiential foundation for developing sound instructional programs in varied settings.
- 3390 **Seminar in Family and Human Relations** 3:3:0
In-depth study of selected topics. The family and the larger society; family structure and function; cultural patterns and life styles; community resources; and family life education.
Prerequisite: Senior Family and Consumer Sciences major.
- 4110 **Special Topics in Family and Consumer Sciences** 1:1:0
Current topics of interest which will have the area of study printed in the schedule for Lamar University. With permission of advisor, the course may be repeated as the topic varies.

- 4300 Medical Nutrition Therapy I** 3:3:0
Diets and nutritional support for selected diseases, surgery, and trauma. Medical terminology, calculation of nutrient needs for specific diseases, case studies.
Prerequisites: FCSC 1322, BIOL 2401-2402.
- 4301 Senior Seminar for Professional Development** 3:3:0
Leadership, personal style, and protocol for working as a professional. Assessment of individual strengths, areas for improvement, and interpersonal relationship skills. Includes the development and nature of the profession, entry into the profession, exploration of career options, and opportunities for graduate study. Requires development of a personal portfolio.
- *4303 Pastries and Desserts** 3:3:0
Students will concentrate on the preparation of pastries and desserts. Topics will include chocolate and sugar work, confections, puff pastry, choux pastry, mousses, specialty cakes and tortes, meringues, bavarians and more. Students will participate in regional culinary competitions.
Prerequisites: FCSC 1315 and FCSC 2303.
- 4305 Interior Design Studio III: Advanced Interior Design** 3:2:3
Studio experiences analyzing, researching, developing, and evaluating complex interior environments in specialized areas of design. Individual and group creative problem solving. Application of business practices and ethics in interior design.
Prerequisite: FCSC 3305
- 4307 Nutrition Throughout the Life Cycle** 3:3:0
Physiological, biochemical and sociological factors that affect nutrient requirements and recommendations over the life cycle.
Prerequisites: FCSC 1322
- 4308 The World of Work** 3:3:0
A comprehensive study of competencies in occupational home economics. Requires participation in out-of-town field trips to observe laboratory settings of model programs.
- 4310 Special Topics** 3:3:0
Special topics including workshops, seminars, and institutes in Family and Consumer Sciences. A description of the particular area of study will appear on the printed semester schedule. May be repeated when the area of study is different.
- 4311 Travel and Tourism** 3:3:0
Designed to recount the history of travel, explore its future, and discuss the role of the components of Tourism. An opportunity to examine the economic, social, and political impacts of Tourism as well as methods of forecasting demand. Focus is on the importance of the planner, the travel agent, and the travel-market researcher to hospitality organizations.
- 4312 Hospitality Industry Law** 3:3:0
A presentation of the history and development of innkeeper's laws and tort law in relation to their implications for today's hospitality industry. A review of the relevant legal issues and government agencies that affect how hospitality professionals deal with both internal and external customer.
- 4313 Prenatal and Infant Development** 3:3:0
Study of physical, social, emotional and cognitive development from conception to age two.
- 4314 Hospitality Industry Marketing** 3:3:0
Basic tenets of business marketing as applied to the hospitality industry; emphasis on customer profile, targeting market segments, and advertising.
- 4315 Medical Nutrition Therapy II** 3:3:0
Continuation of FCSC 4300.
Prerequisites: FCSC 1322, 4300, BIOL 2401-2402.
- 4317 Community Nutrition** 3:3:0
Effects of social, economic, environmental, and political factors on the health and nutritional status of population groups. Students learn instructional techniques appropriate for conducting nutrition education with various groups.
Prerequisite: FCSC 1322 or consent of instructor.
- 4320 Fashion History** 3:3:0
A survey of the development of Western dress with emphasis on the interrelationship of clothing and society.

- *4321 Computers in Hospitality** 3:3:0
Students will be introduced to the major areas of computer applications in the hospitality industry including property management systems, financial planning, point-of-sale, menu development, inventory purchasing and cost analysis, sales and marketing. Some classes will be conducted on property sites.
- 4324 Special Topics with Laboratory Experiences** 3:2:4
Topics of current interest which include laboratory experiences. May be repeated for credit when topic varies.
- 4326 Family Violence** 3:3:0
Interpersonal violence throughout the life cycle from immediate and extended family members. Physical abuse, sexual abuse, and neglect perpetuated against children, spouses, and the elderly. Includes viewpoints of law enforcement and treatment strategies.
- 4327 Parenting** 3:A:0
A study of the importance of family relationships in the development of the child and individual behavior. Specific study of parenting skills, interaction between parent and child, interrelationships between family and larger community. Includes experience with a parent-education model.
- 4328 Single Parent Families** 3:3:0
Formation of single parent families, divorce, widowhood, economics, and support resources. Students are exposed to the viewpoints of law enforcement; social service agencies, and financial experts.
- 4329 Family Communication** 3:3:0
A study of the interdisciplinary nature of family communication. Theoretical approaches including systems, relational, and interaction theories; application of theoretical insight and strategies for working with individuals and groups.
- 4330 Kitchen Design and Equipment: Residential** 3:3:0
Selection, use, and care of residential equipment; adaptation of work centers to individual needs. Design of a custom kitchen.
- 4332 Apparel Design** 3:2:4
Principles and applications of three-dimensional design.
Prerequisites: FCSC 1328 and FCSC 2384 or with approval of instructor.
- 4333 Child Guidance** 3:3:0
Participation in the development of learning environments for young children. Field experiences required in approved educational settings.
Prerequisite: FCSC 3340 or consent of instructor.
- 4334 Administration of Programs for Young Children** 3:3:0
Principles and practices of administration for daycare, pre-school and other programs for young children.
- 4340 Fashion Production and Distribution** 3:3:0
A Study of the textile and apparel industry with emphasis on the production, distribution and marketing of products. Includes off campus experiences through field trips.
- *4342 Advanced Grade Manager** 3:3:0
Advanced culinary work in special areas of expertise including charcuterie, canapés, terrines, pâtés, ice carving, hot and cold display pieces and more. Students will participate in regional culinary competitions. *Prerequisites: FCSC 1315, FCSC 2304 and FCSC 3324.*
- 4344 Computer Application in Design (CAD)** 3:2:4
Creation of interior design plans through use of computers: emphasis on floor plans, furniture layouts, three-dimensional presentations.
Prerequisite: Senior standing.
- 4347 Advanced Foods** 3:2:4
Advanced study of chemical and physical factors affecting food preparation and processing. Application of analytical methods to sensory and instrumental evaluation of food quality. Laboratory experiments and introduction to food research techniques.
Prerequisite: FCSC 1315, CHEM 1406-1408
- 4350 Consumer Housing** 3:3:0
A study of the home as the environment that shapes human lives. Designed to create an awareness of the social responsibilities related to housing and to provide experiences associated with planning and selecting suitable homes. Includes public housing.
- 4357 Operational Analysis for Hospitality Managers** 3:3:0
Use of the microcomputer and the electronic spreadsheet for hospitality industry financial record keeping and reporting. Emphasis on the practical use of spreadsheets, report analysis, and the planning and control functions of budgets. Designed to develop and/or refine those competencies needed to solve practical management problems utilizing a structured approach to decision-making.
Prerequisite: FCSC 2375 and ACCT 2301.

- 4359 Sports Nutrition** 3:3:0
The role of nutrition is discussed as it relates to athletic performance and physical activity.
Prerequisites: FCSC 1322 or approval of instructor.
- 4360 Organizational Behavior and Management in the Service Industry** 3:3:0
Understanding the conceptual theories related to the management process. The impact of individual and group behavior on management decisions and actions in the service industry.
- 4367 Field Experience** 3:A:0
Cooperative work-study arrangement between business, industry or selected governmental or private agencies and the Home Economics Department. Conferences and/or seminars with faculty coordinator are required.
Prerequisite: Senior standing, Family and Consumer Sciences Department; advanced approval required. May be repeated with varied experiences for a maximum of six hours credit.
- 4370 Individual Problems in Family and Consumer Sciences** 3:A:0
Designed to afford research opportunities and work experience for senior students. Under supervision, the students pursue individual interests in the profession.
Advance registration required. May be repeated with varied experience.
- 4380 Classroom Strategies for Vocational Home Economics** 3:3:0
Examination of effective strategies employed in the Vocational Home Economics classroom including classroom management, implementing and advising FHA, and integrating state standards into the educational program.
Prerequisites: FCSC 3380 or consent of instructor.
- 4390 Family Resource Management** 3:3:0
A conceptual study of philosophies and principles of the systems approach to family management. Practical applications through individual and group approaches to problem solving.
Prerequisite: 24 hrs in FCS or consent of instructor.
- 4620 Student Teaching in Family and Consumer Sciences** 6:A:0
Supervised observation and teaching in a vocational home economics classroom.
Prerequisite: FCSC 4380. Class: six hours in an approved vocational program five days per week for eight weeks. One year advanced registration required.

* Pending submission and approval by the Texas Higher Education Coordinating Board

Department of Health and Kinesiology

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Associate Professor: Hernandez, Nix

Assistant Professors: Chilek, Gray, Moore, Morales, Payton, Strickland

Instructors: Gilligan, Wesbrooks

Lecturers: Bolten-Simmons, Clark, Harriman, Knoblauch, Ricklefsen, Waru

The Department of Health and Kinesiology provides several career options for students. Two teacher education certification programs are offered: health and kinesiology. One program of study, in community health, is available that does not lead to teacher certification. Undergraduate programs lead to a Bachelor of Science degree in Health or Kinesiology and the Graduate programs lead to a Master of Science degree.

All university students are required to complete a minimum of 1 credit hour of physical education general activity (PEGA) in order to satisfy the university core curriculum requirements. Students may select from a wide variety of PEGA offerings or from DANC 2172 or DANC 2272. Note: KINA classes will not satisfy the university

physical education general activity program credit hour requirement. The physical education general activity program is designed to develop life-long activity skills, as well as, enhance the general education objectives of the university.

Health

The health program of study offers two options for a career in health education. The Health Teacher Education Program leads to certification to teach health plus an approved additional teaching field at the secondary level. The Community Health program is a non-teacher certification program prepares students for a career in public, government and private health agencies. A student must have completed the English, Math, Biology, Political Science and History General Education Requirements prior to enrolling in the 3000 and 4000 level health professional courses. A grade of "C" must be earned in each of the health professional courses.

Kinesiology

The kinesiology program of study prepares the student for a teaching career in kinesiology. The kinesiology teaching certification program leads to All-Level (K-12) Teaching Certification.

The course of study leading to a baccalaureate degree and teacher certification in kinesiology encompasses three areas of work: (1) the required block of professional theory courses (HLTH & KINT), (2) the required block of professional development courses (PEDG) and (3) the required block of professional activity courses (DANC & KINA). A grade of "C" must be earned in each of the kinesiology professional theory courses (HLTH & KINT). A student must have completed the English, Math, Biology, Political Science, and History General Education Requirements prior to enrolling in the 3000 and 4000 level professional theory courses (KINT).

The required blocks of professional development courses are READ 3326, PEDG 3310, 3320, 3380, 4340 and 4930. A student must be admitted to the College of Education and Human Development's teacher education program before enrolling in professional development courses.

** See the Department of Health and Kinesiology for current teacher certification requirements.*

The required blocks of professional activity courses are KINA 1270 or KINA 2255, DANC 1222 and KINA 2271. Fourteen additional hours must be selected from DANC 1233, KINA 2255, 2273, 2275, 2277, 2278, 2279, 3201, 3202, 3203, 3204, 3205, 3206 and 3207. A minimum of six hours must be selected from the advanced level professional activity courses (3000 series). Of the 20 hours taken to meet the professional activity requirements, a grade of "B" or higher must be earned.

Entrance Requirements

1. Entering Freshmen who meet the University's general entrance requirements may be admitted to the Department of Health and Kinesiology.
2. Students who wish to enter Teacher Certification programs in the Department of Health and Kinesiology must have a minimum 2.5 GPA on all work attempted.
3. Students who wish to enter the Community Health program in the Department of Health and Kinesiology must have a minimum 2.0 GPA on all work attempted.

Bachelor of Science – Kinesiology

Teacher Certification Program All Level (K-12) Certification

First Year	
ENGL Comp	6
MATH 1314 or above	6
BIOL 2401-2402	8
HLTH 1370.....	3
KINT 1301 Intro PE	3
DANC 1222 Folk Dance	2
KINA 1270 or 2255 Swim/WSI.....	2
KINA Electives.....	2
PHIL 1370	3
	35

Third Year	
KINT 3320 Management Skills.....	3
KINT 3350 Atypical Child	3
KINT 3360 Cont. Prob Sec. School	3
KINT 3370 Motor Development	3
KINT 3390 Mvmt Exp Young Child	3
KINT 3330 Exercise Physiology	3
Fine Arts	3
Social Science	3
KINA Electives.....	6
PEDG 3310 Intro Am Public Ed	3
PEDG 3320 Human Learning	3
	36

Total 134 semester hours

Second Year	
ENGL Lit (Soph Lit).....	3
POLS 2301-2302	6
HIST 1301-1302	6
COMM/Mod. Lang.	3
KINT 2371 Func. Anat & Phys	3
KINA 2271 Gym & Tumbling	2
HLTH 1306 First Aid/CPR	3
KINA Electives.....	6
PEGA	1
	33

Fourth Year	
KINT 4360 Measurement & Evaluation	3
KINT 4380 Contemporary Issues	3
KINT 4330 Motor Learning	3
KINT Elective.....	3
HLTH 2376 Care & Prev. Sport Inj.....	3
READ 3326 Reading Strategies	3
PEDG 4380 Sec. Cur. Mthd/Mgmt	3
PEDG 4340 Elem Mthd Class Mgmt	3
PEDG 4930 Student Teaching All Level.....	9
	33

For details concerning requirements for teacher certification and information on professional development courses consult the College of Education and Human Development section in this bulletin.

Bachelor of Science – Health Teacher Certification Program *

First Year	
ENGL 1301-1302	6
MATH 1314	3
MATH 1342 or PSYC 2471	3
BIOL 2401-2402	8
HLTH 1370	3
PEGA	2
PHIL 1370	3
HLTH 1306 Emergency Care and Safety	3
HLTH 1373 Foundations of Health	3
	33-34

Second Year	
ENGL Lit	3
POLS 2301-2302	6
HIST 1301-1302	6
Social Sci	3
COSC 1371	3
PEGA	2
FCSC 1322 Nutrition	3
HLTH 2374 Consumer Health.....	3
HLTH 2378 Human Sexuality.....	3
Fine Arts	3
	35

Third Year	
COMM 1315 or 3310	3
HLTH 3360 Hlth Science & Epidemiology	3
HLTH 3370 Contemporary Issues	3
PEDG 3310 Intro to American Public Ed	3
PEDG 3320 Human Learning	3
PEDG 3326 Reading Strategies	3
Second Teaching Field	15
	<u>33</u>

Total 128 semester hours

Fourth Year	
HLTH 4340 Program Planning	3
HLTH 4370 Community Organization	3
PEDG 4380 Secondary Methods	3
PEDG 4620 Student Teaching Sec	6
Second Teaching Field	9
PEDG 3380 Sec. Curr. & Mths.....	3
	<u>27</u>

* For details concerning requirements for teacher certification and information on professional development courses, consult the College of Education and Human Development section in this bulletin.

Bachelor of Science – Health Non-Certification Community Health Program

First Year	
ENGL 1301-1302	6
MATH 1314	3
MATH 1342 or PSYC 2471	3
BIOL 2401-2402	8
HLTH 1370	3
PEGA	1
PHIL 1370	3
HLTH 1306 Emergency Care and Safety	3
HLTH 1373 Foundations of Health	3
	<u>33</u>

Second Year	
ENGL Lit	3
POLS 2301-2302	6
HIST 1301-1302	6
Soc Sci	3
COSC 1371	3
PEGA	2
FCSC 1322 Nutrition	3
HLTH 2374 Consumer Health.....	3
HLTH 2378 Human Sexuality.....	3
Fine Arts	3
	<u>35</u>

Third Year	
COMM 3310.....	3
HLTH 3360 Hlth Science & Epidemiology.....	3
HLTH 3370 Contemporary Issues.....	3
SOCI 3320 Social Psychology	3
BIOL 2420 or KINT 3330	3-4
Electives *	18
	<u>33-34</u>

Fourth Year	
HLTH 4340 Program Planning	3
HLTH 4370 Community Organization	3
HLTH 4360 Practicum in Health	3
HLTH 4460 Health Internship	4
COMM 1318 Interpersonal Comm	3
Electives *	12
	<u>28</u>

Total 130 semester hours

* Electives should include the following:
A related minor of 18 semester hours approved by department.
A related elective program of 12 semester hours approved by department.

Health Courses (HLTH)

1306 First Aid/CPR	3:3:0
American Red cross standard first aid and personal safety course. CPR certification is included.	
1373 Foundations of Health	3:3:0
An orientation to the foundations of health and health promotion as a profession is presented. The philosophy, historical development and purposes of health promotion are investigated.	
1370 Health & Wellness	3:3:0
Designed to increase student awareness of fitness, health concepts and lifestyle modification. The class includes laboratories and practical activities, which help students in their attempt to improve their quality of life and achieve well being.	

- 2374 Public and Consumer Health** 3:3:0
Traditional and modern methods of meeting public and consumer health needs; investigation and analysis of public and consumer health problems; functions and organization of consumer services at the local, state, regional and national levels.
- 2376 Care and Prevention of Sports Injuries** 3:3:0
A study of the treatment and prevention of specific sport injuries. The injuries may be a result of activity in the home, recreational, intramural, or extramural settings.
- 2378 Human Sexuality and Sexually Transmitted Diseases** 3:3:0
This course is concerned with the basic information regarding the physical, psychological, social, and comparative cultural aspects of family health, sexual behavior, sex education, and sexually transmitted diseases. Emphasis will be placed on the relationship between personal health and human sexuality. The understanding of human sexuality through self-awareness, value clarification and decision-making will also be a concern.
- 3360 Health Science and Epidemiology** 3:3:0
A study of infectious and non-infectious diseases. The course treats epidemiology as a basic science of preventive medicine as well as the study of occurrence of disease in human populations.
- 3370 Contemporary Issues** 3:3:0
The course deals with problems associated with current health issues, which are related to individual and social adjustment in society. Special emphasis will be given to substance abuse, stress management, and problems relating to aging.
- 4300 Individual Study in Health** 3:3:0
Selected problems in health. Not to be used in lieu of a required course.
Prerequisite: Senior standing and consent of department head. May be repeated for credit. Class by consultation.
- 4301 Workshop** 3:A:0
A number of workshops are designed to advance the professional competence of students. For each description, the particular area of study will be indicated. May be repeated for credit when nature of workshop differs from one previously taken. Not to be used in lieu of required health courses.
- 4340 Program Planning and Evaluation** 3:3:0
This course is designed to prepare the student to assess a population for their health needs, plan an effective program and successfully implement the program. Theory and practice in evaluation of community- and school-based programs and effective health promotion strategies will be presented.
Prerequisite: HLTH 1370, HLTH 1373, HLTH 3360.
- 4360 Practicum in Health** 3:3:0
Observation and study of health programs and organizations.
Prerequisite: HLTH 1370, HLTH 1373 and senior standing.
- 4370 Community Organization and Development** 3:3:0
This course will present different aspects of the community related to health: organization and function of community, systems management, analyses of community mobilization procedures, coordination of community health organizations and motivation and plans for action in the community.
Prerequisite: HLTH 1370, HLTH 1373 and junior standing.
- 4460 Health Internship** 4:3:2
Supervised internship at selected community, public or private health agencies and/or organizations.
Prerequisite: HLTH 1370, HLTH 1373, HLTH 4360 and senior standing.

Kinesiology Theory Courses (KINT)

- 1301 Introduction to Physical Education** 3:3:0
Introduction to history, principles and philosophy of kinesiology; professional qualifications of leadership; special emphasis on theoretical and practical aspects.
- 2371 Functional Anatomy and Physiology** 3:3:0
A study of human movement from the perspectives of anatomy, physiology and kinesiology. Emphasis on the analysis of sport-skill performance. *Prerequisite: BIOL 2401 and 2402.*
- 2372 Sport in Contemporary American Society** 3:3:0
A study of various sociocultural factors in American society and their relationship to the sport experience.
- 2374 Psychology of Sport** 3:3:0
Psychological perspectives of sport; personalities of sports participants and current literature related to psychological aspects of sport.

2376	Safety Education—Driver Education	3:3:0
	Provides in-depth coverage of the many aspects of defensive driving. In addition it will provide insight into current federal mandates.	
2377	Driver Program	3:3:0
	Traffic rules and regulations and the basic facts concerning the cause and prevention of accidents. The course includes in-car and/or simulator experiences.	
2378	Practicum in Driver Programs	3:3:0
	Supervised observation and provision of actual experience in behind the wheel strategies for individuals conducting driver programs	
3320	Management Skills	3:3:0
	A study of the organization and administration of programs in recreation, dance, sports, and athletics.	
3330	Exercise Physiology	3:3:0
	A study of the functions of the physiological systems during and after exercise. <i>Prerequisite: BIOL 2401 and BIOL 2402, KINT 2371.</i>	
3350	Atypical Child	3:3:0
	A study of the classification of atypical students who require modified programs. Special emphasis on developing personalized developmental programs. Field experience required.	
3360	Contemporary Programs in Secondary Schools	3:3:0
	A critical and comprehensive examination of current trends and issues of programs at the secondary level.	
3370	Motor Development	3:3:0
	Principles of motor development in children, including developmental stages and the understanding of motoric trends in human growth and development from birth throughout life.	
3390	Movement Experience for the Young Child	3:3:0
	A study of movement experiences in dance, gymnastics, and games for the young child. Functional and practical application will be emphasized.	
4300	Individual Study	3:3:0
	Selected problems in the discipline; not to be used in lieu of a class. May be repeated for credit. Class by consultation. <i>Prerequisite: Senior standing and consent of department head.</i>	
4301	Workshop	3:A:0
	A number of workshops are designed to advance the professional competence of students. For each description, the particular area of study will be indicated. May be repeated for credit when nature of workshop differs from one previously taken. Not to be used in lieu of a class.	
4310	Scientific Principles of Human Performance	3:3:0
	Anatomical and physiological factors that influence optimal performance. Prerequisites: Permission of instructor.	
4330	Motor Learning	3:3:0
	Principles of neuromuscular control mechanisms and correlates of movement behavior and motor learning. Presentation of materials dealing with the learning process, aspects of the learner and variables influencing learning.	
4360	Measurement and Evaluation	3:3:0
	A study of practical measurement and evaluation procedures used in the assessment of human performance. Includes construction of evaluation instruments, experience in test administration and the use of elementary statistical procedures in test score interpretations.	
4380	Contemporary Issues	3:3:0
	A study of programs and problems associated with the implementation of programs.	
4620	Kinesiology Internship	6:A:0
	Supervised internship at selected public or private agencies and/or institutions.	

Kinesiology Activities (KINA)

2271	Gymnastics: Tumbling and Gymnastics	2:1:2
	The introduction and development of skills, general rules, and strategy related to gymnastics with particular emphasis on acquisition of skill, appreciation of safety and skill progression.	

2273	Golf	2:1:2
	The introduction and development of skills, general rules, and strategy related to golf with particular emphasis on acquisition of skill, appreciation of safety and skill progression.	
2275	Aerobic Fitness	2:1:2
	The introduction and development of skills, understanding of body functions and basic conditioning related to aerobic fitness with particular emphasis on acquisition of skill, appreciation of safety and skill progression.	
2255	Water Safety Instruction	2:1:2
	The introduction and development of skills, general rules, and strategy related to water safety instruction with particular emphasis on acquisition of skill, appreciation of safety and skill progression.	
2277	Archery/Badminton	2:1:2
	The introduction and development of skills, general rules, and strategy related to archery and badminton with particular emphasis on skill, appreciation of safety and skill progression.	
2278	Strength Training	2:1:2
	The introduction and development of skills and general guidelines establishing a training program related to strength training with particular emphasis on acquisition of skill, appreciation of safety and skill progression.	
2279	Sports Officiating I	2:1:2
	The introduction and development of skills, general rules, and strategy related to sports officiating with particular emphasis on acquisition of skill, appreciation of safety and skill progression.	
3201	Baseball	2:1:2
	Activities organized to focus on advanced strategies and coaching aspects of team sports.	
3202	Basketball	2:1:2
	Activities organized to focus on advanced strategies and coaching aspects of team sports.	
3203	Football	2:1:2
	Activities organized to focus on advanced strategies and coaching aspects of team sports.	
3204	Tennis	2:1:2
	Activities organized to focus on advanced strategies and coaching aspects of team sports.	
3205	Track/Field	2:1:2
	Activities organized to focus on advanced strategies and coaching aspects of team and individual sports.	
3206	Volleyball	2:1:2
	Activities organized to focus on advanced strategies and coaching aspects of team sports.	
3207	Soccer	2:1:2
	Activities organized to focus on advanced strategies and coaching aspects of team sports.	

* Pending submission and approval by the Texas Higher Education Coordinating Board

Physical Education General Activity (PEGA)

The PEGA program offers physical activities designed for the student to learn and develop skills in a variety of lifespan sports. PEGA courses may be repeated for academic credit.

Activity Courses (PEGA)

Students enrolled in physical education activity classes may be required to wear regulation uniforms suggested by the instructor. The student may provide equipment for class.

1121/1251	Intermediate Water Aerobics	1:1/2:0
1270	Beginning Swimming	1:2:0
1171/1271	Swimming and Diving	1:1/2:0
1172/1272	Strength Training	1/2:1/2:0

1173/1273	Women's Strength Training	1/2:1/2:0
1174/1274	Cross Training	1:1/2:0
1175/1275	Water Aerobics	1/2:1/2:0
1176/1276	Walking for Fitness	1:1/2:0
1177	Jogging for Fitness	1:1:0
1277	Lifetime Sports	1:2:0
1178/1278	Yoga/Stretching	1:1/2:0
2170/2270	Basketball	2:1/2:0
2171/2271	Intermediate Golf	2:1/2:0
2172/2272	Golf	2:1/2:0
2173/2273	Beginning Tennis	2:1/2:0
2174/2274	Intermediate Tennis	2:1/2:0
2175/2275	Baseball	2:1/2:0
2176/2276	Beginning Gymnastics	2:1/2:0
2177/2277	Sailing	2:1/2:0
2178/2278	Volleyball	2:1/2:0
2179/2279	Racquetball	2:1/2:0
2181/2281	Bowling	2:1/2:0
2280	Badminton	2:2:0
DANC 2172/2272	Aerobics†	2:1/2:0
KINA 2255	Water Safety Instructor†	

† This course also satisfies university PEGA requirement

Athletic Training Specialization

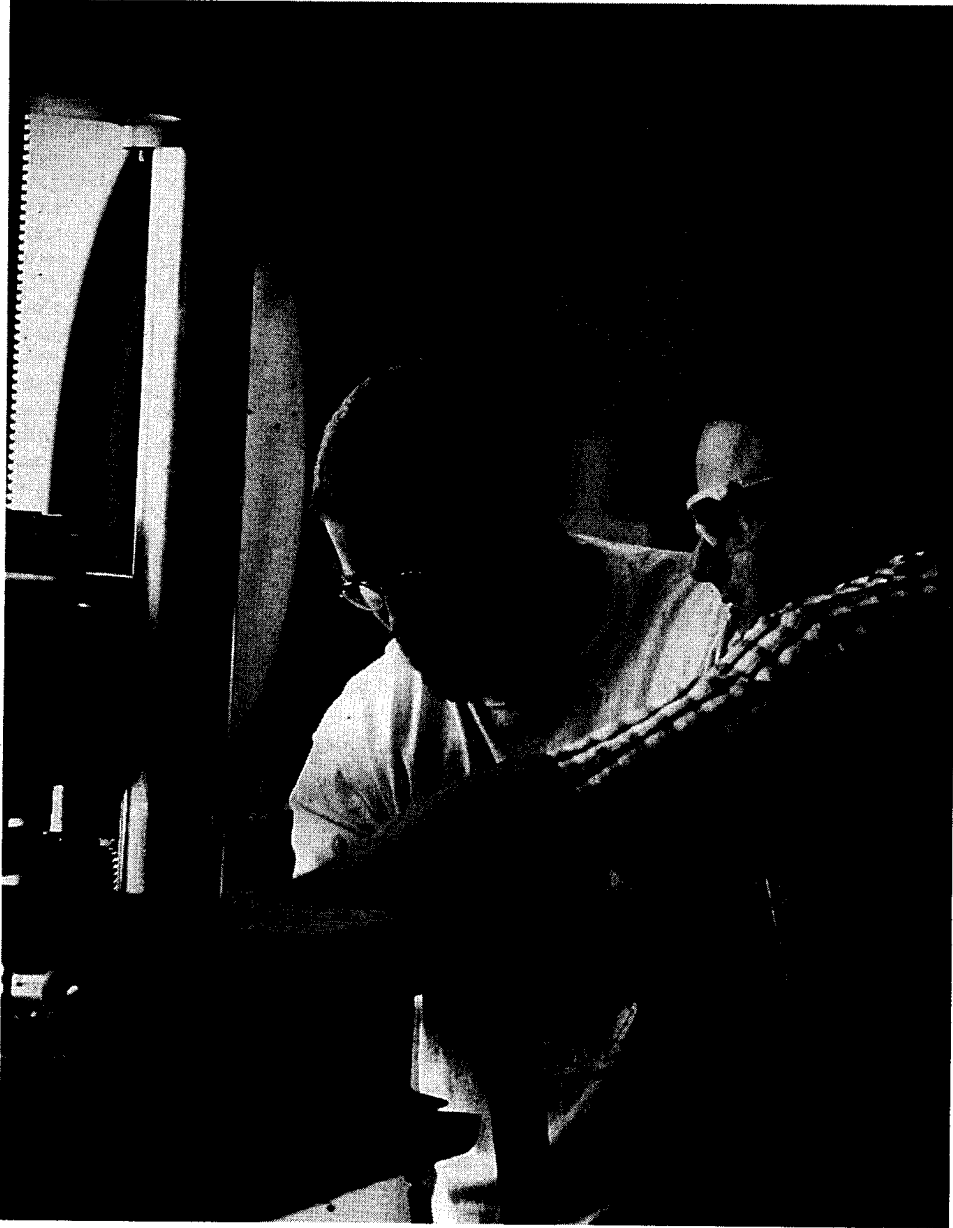
Certification by the National Athletic Trainer's Association and licensure by the State of Texas as an athletic trainer is available through meeting the following requirements:

1. Admission to the Athletic Training Program at Lamar University. *
2. Completion of a minimum of 600 clock hours per academic year for a minimum of 3 years (1800 hours total)
3. Completion of an undergraduate degree in addition to certain course requirements.
4. Successful completion of NATABOC exam for certification. (ATC)
5. Successful completion of Texas board exam for licensure.

* Number of students is limited. Application must be made through the head athletic trainer.

Driver Certification Requirements

Certification to teach driver education is available as a special designation on an existing Texas teaching certificate based on a baccalaureate degree. The specific course requirements are KINT 2376, 2377 and 2378.



The College of Engineering offers flagship programs stemming from a heritage of excellence with hands-on application that combines creativity and hard science.

College of Engineering

Departments: Chemical Engineering, Civil Engineering, Computer Science, Electrical Engineering, Industrial Engineering, Mathematics and Mechanical Engineering

Jack R. Hopper, Dean

**2016 Cherry Engineering Building
Phone 880-8741**

**Jim Thomas, Director
Recruiting and Cooperative Education**

**2612 Cherry Engineering Building
Phone 880-7870**

**Becky Caddy, Director
Advisement and Retention Center**

**2612 Cherry Engineering Building
Phone 880-8810**

Engineering Endowed Chair Professors:

Michael E. and Patricia P. Aldredge Chair of Industrial Infrastructure: T.C. Ho

Jack Gill Chair of Chemical Engineering and Chemistry: David Cocke

Andrew and Joyce Green Chair of Composites and Structural

Engineering: Robert L. Yuan

William B. and Mary G. Mitchell Chair of Telecommunications: Harley Myler

Debbie Graves, Executive Assistant

Degrees Offered

Computer Science

B.S., Bachelor of Science in
Computer Science
Computer and Information Science

M.S., Master of Science
Computer Science

Engineering

B.S., Bachelor of Science in
Chemical Engineering
Civil Engineering
Electrical Engineering
Industrial Engineering
Mechanical Engineering
Industrial Technology

M.E.S., Master of Engineering Science
M.S., Master of Science in
Environmental Engineering
Environmental Studies
M.E., Master of Engineering
M.E.M., Master of Engineering
Management
D.E., Doctor of Engineering

Mathematics

B.A., Bachelor of Arts
B.S., Bachelor of Science

M.S., Master of Science
Mathematics

The departments in the College of Engineering are associated with their respective national honor societies which include: Alpha Pi Mu, Chi Epsilon, Eta Kappa Nu, Omega Chi Epsilon, Pi Mu Epsilon, Pi Tau Sigma, Tau Beta Pi and Upsilon Pi Epsilon.

Cooperative Education Program

A Cooperative (Co-op) Education Program, in which the student spends alternate terms at work and at study, is offered to qualified students in the College of Engineering. Internships for work periods in summer terms only are also offered. Programs are available for computer science, engineering, industrial technology and mathematics students.

To meet the minimum qualifications for the Co-op program a student must

1. Complete all the work in the first two semesters of the degree program.
2. Maintain a 2.5 Over-all grade point average for engineering and mathematics or 2.75 over-all GPA for computer science.

To remain in the program, the student must maintain a grade point average above a 2.5 and perform in a manner satisfactory to the employer and Lamar University.

A co-op is considered to be a full-time student during any work term in which the co-op is registered for Career Development. By participating in the Co-op program throughout the sophomore and junior years, a student extends the time required to obtain a degree to five years. However, in doing so, he gains the equivalent of almost two years experience in industry.

A student may apply for admission to the Co-op program through the Engineering Cooperative Education Office.

Engineering Programs

The five undergraduate curricula in engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. The Accreditation Board for Engineering and Technology defines engineering as "the profession in which a knowledge of the mathematical and natural sciences gained by study, experience and practice is applied with judgment to develop ways to use economically the materials and forces of nature for the benefit of mankind." Clearly, from this definition, engineers are to form the interface between science and society as they apply, in realistic terms, the findings of science.

Entrance Requirements

Entering freshmen and new transfer students are considered provisional majors. The College of Engineering Advisement Center is responsible for the academic advisement of provisional engineering majors.

The entrance requirements from high school for engineering degree programs are

1. English4 units
2. Mathematics
 - Algebra2 units
 - Geometry1 unit
 - Pre-calculus or Equivalent1 unit
3. Natural Sciences
 - Chemistry1 unit
 - Physics1 unit
4. Foreign Language1 unit

Students who meet the general entrance requirements of the University, but lack in specific requirements for the engineering curricula may, upon approval of the dean, be permitted to enroll in the College of Engineering; however, all deficiencies must be removed before the end of the second academic year. Students having entrance deficiencies or weaknesses are urged to use the summer terms proceeding the Freshman year in college to remove them. Students attaining a sufficiently high grade in the CEEB Mathematics Level I exam may be eligible for advanced placement in the Calculus and Analytic Geometry sequence. These tests are administered during the freshmen orientation periods and during the regular registration periods.

Transfer students are required to have a minimum 2.0 GPA on all work attempted before entering the College of Engineering. Normally transfer credit is considered for course work with a grade of "C" or better.

Standards

In addition to the University requirements, the College of Engineering enforces the following standards:

1. Students are required to take courses in the sequence shown in the University Bulletin for each degree program.
2. Engineering students are expected to maintain a GPA of 2.25 to remain in a program. Students who drop below 2.25 GPA will be placed on probation (maximum load of 13 semester hours). Students who drop below a 2.0 GPA will be suspended from the College of Engineering for one long term. Students returning from suspension must prepare a performance contract in consultation with their academic advisor. A minimum term of the contract requires the student to remove deficiencies every semester of enrollment. Students who fail to meet the terms of their contract will be permanently suspended.
3. Engineering students are expected to maintain a minimum GPA of 2.0 in their major courses (Any course with an Engineering prefix.) A performance contract with the student's department head is required for continued enrollment.
4. Degree credit is normally allowed only for courses in which a grade of "C" or better is earned. A course may be repeated for additional credit toward a degree only as specified by the official course description in the University Bulletin. Excluding courses that may be taken for additional credit toward a degree, a student may not register for any course more than four times. Any student who wishes to repeat a course must do so before completing a more advanced course in the same subject matter field.
5. Upon the completion of at least 51 semester hours of the Common Program with a GPA of 2.25 or more on all required courses, a student will be considered for admission to an engineering program. For all engineering programs, it is required that 45 semester hours (at least 25 semester hours in engineering at the 3000 and 4000 level) be earned after admission to the professional program.
6. The student's advisor must approve all electives.

The Dean of Engineering may require students to meet the current degree requirements or program standards.

Please see each department's four-year suggested program of study.

Engineering Courses (ENGR)

The following courses are common to all engineering programs.

1101	Introduction to Engineering History of engineering, philosophy of engineering practice, the electronic calculator and analysis of the problems of being an engineering student.	1:1:0
1301	Introduction to Computers and Programming Digital computers, program organization, algorithm development using engineering examples and high-level languages. <i>Prerequisite: MATH 1316 or higher.</i>	3:3:0
2273	Engineering Economics The time value of economic resources, engineering project investment analysis, effect of taxes on engineering project decisions. <i>Prerequisite: MATH 2413.</i>	2:3:0
2301	Statics Statics of particles and rigid bodies. Use is made of basic physics, calculus and vector algebra. <i>Prerequisite: PHYS 2425.</i>	3:3:0

2311	Circuits I Linear network analysis. Fundamental network laws and methods. Transient response. Sinusoidal steady state analysis and response. <i>Prerequisite: MATH 2414, PHYS 2426, ENGR 1301.</i>	3:3:0
2360	Career Development I Comprehensive treatment of career-related special assignments and projects. <i>Prerequisite: Approval of academic dean.</i>	3:3:0
2370	Career Development II Comprehensive treatment of career-related special assignments and projects. <i>Prerequisite: ENGR 2360.</i>	3:3:0
3350	Computer Aided Design Course stresses two- and three-dimensional applications on the CAD system. Elementary two-dimensional geometric design; Advanced two-dimensional geometric design and application. Three-dimensional curve, surface and solid design with three-dimensional geometric analysis; Design optimization and interfacing computer aided design and computer aided manufacturing. <i>Prerequisite: Junior standing (admitted into a professional engineering program).</i>	3:3:0
3360	Career Development III Comprehensive treatment of career-related special assignments and projects. <i>Prerequisite: ENGR 2370.</i>	3:3:0
3370	Career Development IV Comprehensive treatment of career-related special assignments and projects. <i>Prerequisite: ENGR 3360.</i>	3:3:0
4101, 4201, 4301	Special Topics An investigation into specialized areas of engineering under the guidance of a faculty member. This course may be repeated for credit when topics of investigation differ.	1-4:A:0
4360	Career Development V Comprehensive treatment of career-related special assignments and projects. <i>Prerequisite: ENGR 3370.</i>	3:3:0

Department of Chemical Engineering

Program accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

Department Chair: Kuyen Li

101 Lucas, Phone 880-8784

Professors: Hopper, Yaws, Li, Chen, Ho

Gill Chair in Chemical Engineering and Chemistry: Cocke

Assistant Professor: Gossage, Lou, Tadmor

Visiting Assistant Professor: Bin Wang

Laboratory Technician: Thomison

Administrative Associate: Dewanna Campbell

Chemical engineering is the profession in which a knowledge of mathematics, chemistry and other natural sciences gained by study, experience and practice is applied with judgment to develop economic ways of using materials and energy for the benefit of mankind. The chemical engineer enters into almost every modern industry. From petroleum to synthetic rubber, from semiconductor to medicines, the chemical engineer engages in design, research, development, production, sales and management. Among the fields in which the chemical engineer is of prime importance are petroleum, petrochemicals, metals, plastics, paints, drugs and foods, paper, glass, dyes, synthetic fibers and a host of others.

The Department of Chemical Engineering will permit transfer of up to 78 semester hours from a junior college or a community college, if appropriate courses were taken at the junior (community) college level. The appropriate list of courses for a particular college can be made available upon request.

Mission Statement

The Chemical Engineering Department will provide the program, environment, facilities, faculty, and staff to prepare and educate each student to be a leader/problem-solver for industry, academia, or government.

Educational Objectives

The Chemical Engineering Department will educate students to have

- (1) The foundation and depth of knowledge for problem-solving in their careers,
- (2) The foundation and breadth of knowledge for obtaining, applying, and conveying knowledge across disciplines; and
- (3) Effective communication skills for teamwork and leadership.

The department recognizes that students, faculty, alumni, and employers of graduates have a stake in the success of its program. These constituencies play a role in determining the mission and objectives of the department, and they will play a role in determining how well these objectives are being met.

Bachelor of Science – Chemical Engineering

Suggested Program of Study

First Year

Fall Semester	Spring Semester
ENGL Comp3	ENGL Comp3
MATH 2413 Calculus & Anal Geom I.....4	MATH 2414 Calculus & Anal Geom II4
CHEM 1411 Gen Chemistry4	CHEM 1412 Gen Chemistry4
INEN 1101 Intro Engineering1	*ELEN 1301 Eng Computers I.....3
PHIL 1370 Philosophy of Knowledge.....3	PHYS 2425 Mechanics & Heat4
PEGA1	
16	18

Second Year

MATH 2415 Calc & Anal Geom III4	MEEN 2302 Dynamics.....3
PHYS 2426 Elec, Mag, Lt.snd4	CHEM 3401 Quant Anal4
INEN 2273 Eng Econ2	*CHEN 3340 Proc Anal3
CVEN 2301 Statics.....3	ELEN 2311 Circuits3
*CHEN 2374 Thermodynamics I3	MATH 3401 Diff Equa & Lin Alg4
*CHEN 2100 CAMS.....1	#CHEN 4140 Seminar1
17	18

Third Year+

**CHEN 3330 Thermo II3	**CHEN 3320 Heat Transfer3
**CHEN/MEEN 3311 Mom Trans3	**CHEN 4410 Kinetics4
POLS 23013	POLS 23023
CHEM 3411 Organic I4	CHEM 4312 Physical3
COMM/Modern Languages3	CHEM 3412 Organic II.....4
Fine Arts3	
19	17

Fourth Year

CHEN 4331 Proc Control I	3	CHEN 4332 Proc Control II	3
CHEN 4420 Mass Transfer	4	CHEN 4150 Proc Cont Lab	1
# CHEN 4310 Lab.....	3	CHEN 4340 Design II.....	3
CHEN 4360 Design I	3	CHEN 4350 Adv Anal	3
Eng Lit	3	Am Hist	3
Am Hist	3	CHEM Elect (1)	3
		Soc Sci Elective	3
	19		19

(1) Approval of Department Head

* Courses offered during both the fall and spring semester

** Courses also offered during the summer session

+ Completion of CHEN & CHEM courses required before registration for fourth-year CHEN courses

Extensive Oral Communications Requirement

Chemical Engineering Courses (CHEN)

2100 Computer-Aided Modeling and Simulation	1:0:3
Introduction to mathematical and chemical process simulation software packages that will be useful to the students in their later chemical engineering courses.	
<i>Prerequisite: CHEN 3340 or concurrent.</i>	
2374 Thermodynamics	3:3:0
The fundamental laws of thermodynamics; properties of systems solids, gases and liquids, and thermodynamic tables.	
<i>Prerequisite: ELEN 1301, PHYS 2425, MATH 2415 or concurrent.</i>	
3311 Momentum Transfer	3:3:0
Fluid-flow concepts are presented through the derivation of the basic equations of continuity, energy and momentum. Engineering aspects of flow measurement, pressure-drop calculations and pumping requirements are considered. Same as MEEN 3311. CHEN 3311 and MEEN 3311 may not both be counted for credit.	
<i>Prerequisite: CHEN 2374, CHEN 3340.</i>	
3320 Heat Transfer	3:3:0
Principles of conduction, convection and radiation, and their application to the design of heat transfer equipment and systems.	
<i>Prerequisite: CHEN 3311, CHEN 3330.</i>	
3330 Thermodynamics II	3:3:0
Application of the First and Second Laws to chemical processes. Thermodynamic properties of pure fluids and mixtures. Physical equilibrium.	
<i>Prerequisite: CHEN 3340, CHEN 2374, CHEM 3411 or concurrent.</i>	
3340 Process Analysis	3:3:0
Application of mathematics, physics and chemistry to the solution of problems in industrial chemistry. Material and energy balance calculations on processes undergoing physical and chemical changes.	
<i>Prerequisite: CHEN 2374 or concurrent.</i>	
4140 Seminar	1:1:0
Oral and written presentation of selected topics in chemical engineering from recent technical publications.	
<i>Prerequisite: Sophomore standing in Chemical Engineering.</i>	
4150 Process Control Laboratory	0:3:1
Experiments in level, flow and temperature control; computer-based adaptive control; PID tutorial program; control valve selection and sizing; interactive process control using the Honeywell TDC-3000 keyboard with a process control simulator.	
4310 Laboratory I	3:1:6
Experiments in heat transfer, mass transfer, fluid flow, reaction kinetics and thermodynamics.	
<i>Prerequisite: CHEN 3311, 3320, CHEN 4420 or concurrent.</i>	
4331 Process Control	3:3:0
Basic hardware and instrumentation needed to implement process control; principles of feedback controllers design and tuning; analysis of stability and performance of feedback loops using Laplace and frequency domain techniques. Introduction of advanced control strategies.	
<i>Prerequisite: CHEN 4410, 4420, MATH 3401.</i>	

4332	Process Control II This course covers enhanced PID control, multivariable constrained control and statistical process control. Control and simulation software will be used. <i>Prerequisite: CHEN 4331.</i>	3:3:0
4340	Plant Design II A continuation of CHEN 4360, with emphasis on a major design project. <i>Prerequisite: CHEN 4360.</i>	3:1:6
4350	Advanced Analysis Development of mathematical equations for chemical engineering applications. Implementation of computer-aided modeling and simulation packages in chemical engineering applications. <i>Prerequisite: CHEN 3330, 3311, 3320, 4570, 4410, MATH 3401.</i>	3:3:0
4360	Plant Design I Application of chemical engineering principles to the design of chemical processes and plants. Equipment design and specifications. Economic evaluation of processes and equipment. <i>Prerequisite: CHEN 4410: CHEN 4420 or concurrent.</i>	3:3:0
4410	Reaction Kinetics Chemical equilibrium. Analysis of experimental data to determine reaction rate parameters in homogeneous, heterogeneous, catalytic and non-catalytic reactions. Development of equations for batch, stirred-tank and tubular flow reactors. Application of differential equations to process and reactor design. <i>Prerequisite: MATH 3401, CHEN 3320 or concurrent, CHEN 3330 or concurrent, CHEM 3411 or concurrent.</i>	4:3:3
4420	Mass Transfer Principles of diffusion. Simultaneous mass, energy and momentum transfer. Analysis of absorption, extraction and distillation processes. <i>Prerequisite: CHEN 3330, 3320, CHEM 3411.</i>	4:3:3

Department of Civil Engineering

Program accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

Department Chair: Robert Yuan

2010 Cherry Building, Phone 880-8759
Web Address: <http://ceserver.lamar.edu>

Andrew and Joyce Green Chair of Composites and Structural Engineering: Robert Yuan

Professors: Koehn, Yuan

Associate Professors: Fang, Jao

Assistant Professor: Lin

Visiting Associate Professor: Beyle

Instructor: Tohme

Laboratory Technician: West

Administrative Assistant: Dousay

Civil engineering is a people-serving profession and as such is vital to the world's economic, political, and social well being. The many areas to which civil engineers make substantial contributions include bridges, dams and levees, harbors, waterways and irrigation facilities, buildings, airports, highways, pipelines, railroads, power lines, water supply systems and waste treatment facilities. Civil engineers engage in a wide range of activities such as research, design, development, management, and the control of engineering systems and their components. With today's fast-paced technological changes, civil engineering provides unique and unlimited career opportunities that can only be met by professionally educated people.

The civil engineering program is designed with a broad base to prepare men and women for careers in various phases of civil engineering and to enable them to perform

other managerial and technical functions that require scientific and engineering backgrounds. The curriculum embraces a sound core of humanities and social studies courses in addition to those in physics, chemistry and mathematics. To this is added a substructure of engineering sciences. Areas of study include geo-technical, structural, hydraulic, environmental, surveying, and construction engineering. Electives are available to fit the individual interest of the civil engineering student.

Because of the wide scope of activities in which the civil engineer is engaged, and the broad spectrum of student interest, civil engineering graduates may choose either to enter the profession immediately after receiving their bachelor's degree or go directly to graduate school. No matter what the student chooses, the curriculum provides a firm foundation for today's world.

To encourage and assist scholars in civil engineering, the Katherine E. and William C. Mundt endowment was established in 1983. In addition, the Tony Paine Memorial Scholarship was established in 1988, the David Bernsen Endowed Scholarship in 1997 and the Leslie A. Lakie Scholarship in 1999. These funds provide scholarships for qualified students. Application forms are available in the civil engineering department office.

Mission Statement

The Department of Civil Engineering will achieve its mission through continuous efforts to: (1) employ a faculty with the professional credentials and experience to deliver quality academic programs that meet student and societal needs; (2) serve a diverse student population by offering strong and varied academic programs that will prepare graduates for the challenges of life-long learning; (3) offer contemporary curricula that combine a foundation of general education and disciplinary preparation for the market place; and (4) provide formal/informal learning resources to support instructional and scholarly/creative activities.

Vision Statement

Lamar University's Department of Civil Engineering strives to become recognized as a regional/national/international leader in engineering education as well as in the analysis, design, and management of civil and environmental engineering systems. To support this endeavor, the department will seek to conduct, disseminate and apply relevant research to influence engineering practice and the advance of engineering education and knowledge. This will be accomplished through strategic efforts that allow the department to effectively adapt to the ever-changing aspects of higher education. The net effect will be that Lamar University's civil engineering graduates will be empowered with the knowledge, skills, and innovative thinking to facilitate discovery in numerous existing and yet to be discovered fields of endeavor.

Objectives

The objectives of the Department of Civil Engineering at Lamar University is to provide a high-quality engineering education in which graduates are prepared to use modern techniques, skills and tools to identify, formulate and solve engineering problems, in addition to demonstrating: (1) an ability to design and conduct experiments, as well as to analyze and interpret data; (2) an ability to function on multi-disciplinary teams; (3) an understanding of professional and ethical responsibility; (4) an ability to communicate effectively; (5) an understanding of the impact of engineering solutions in a global and societal context; (6) a recognition of the need for and an ability to engage in life-long learning; and (7) a knowledge of contemporary issues.

Outcome Assessment

The Civil Engineering Department has developed an assessment process to demonstrate that the outcomes important to the objectives of its program are measured. This process is based on input from the department's various constituencies: students, alumni, and employers. Specifically, information obtained from graduating seniors, alumni surveys that document career development, and data from employer surveys are among the items to be utilized.

Bachelor of Science – Civil Engineering

Additional Degree Requirements:

Candidates for degrees in this program are strongly encouraged to consider sitting for the National Council of Engineering Examiners Examination on "Fundamentals of Engineering" as administered by the Texas Board of Professional Engineers.

Suggested Program of Study

First Year

Fall Semester	Spring Semester
ENGL Composition3	ENGL Composition3
MATH 2413 Calculus & Anal Geom I.....4	MATH 2414 Calculus & Anal Geom II4
CHEM 1411 Gen Chemistry4	ELEN 1301 Eng Computers I.....3
INEN 1101 Intro Engineering1	PHYS 2425 Calculus-based Physics I (1)4
PHIL 1370 Philosophy of Knowledge.....3	COMM or foreign language elective3
PEGA1	
16	17

Second Year

MATH 2415 Calc & Anal Geom III4	INEN 2273 Eng Econ2
PHYS 2426 Calculus-based Physics II4	MEEN 2302 Dynamics (b)3
CVEN 2301 Statics.....3	CVEN 2372 Mechanics of Solids (b).....3
CHEN 2374 Thermodynamics I3	MATH 3401 Diff Equa & Lin Alg4
Elective: Social Science.....3	Elective: Fine Arts3
17	15

Third Year

CVEN 2270 Surveying2	CVEN 3200 Materials Engineering2
CVEN 3310 Water Chemistry in Environmental Engineering3	CVEN 3290 Engineering Probability and Statistics2
CVEN 3340 Structural Mechanics3	CVEN 3360 Hydrology of the Environment3
CVEN 3350 Hydraulics I3	CVEN 3370 Water and Wastewater Treatment ..3
Elective: Literature3	CVEN 3390 Geotechnical Engineering3
Elective: History3	Elective: History3
17	16

Fourth Year

CVEN 4212 Civil Engr Syst Design Project2	CVEN 4110 Seminar1
CVEN 4320 Project Mgmt Engineering.....3	CVEN 4350 Hydraulics II3
CVEN 4340 Foundation Engineering3	CVEN 4390 Structural Steel Design3
CVEN 4380 Reinf. Concrete Design3	CVEN Elective (a)3
CVEN Elective (a)3	Elective: Science (a).....4
POLS 23013	POLS 23023
17	17

Notes:

(1) Diagnostic placement test required

(a) All electives must be approved by the chair of the C.E. Dept. CVEN Electives must include design content of an amount to satisfy ABET criteria.

(b) It is vital that CVEN 2372 and MEEN 2302 be completed before the start of the third year.

Civil Engineering Courses (CVEN)

- 2270 Surveying** **2:1:3**
 Introduction to the basic principles of surveying. Use of equipment for measurement of horizontal and vertical distances and angles. Field practice and calculations associated with design and layout of highway curves including vertical and horizontal alignments. Transition spirals. Error Analysis. Computer used in calculations.
Prerequisite: INEN 1301, 1101.
Corequisite: MATH 2312.
- 2301 Statics**
 Statics of particles and rigid bodies. Use is made of basic physics, calculus and vector algebra.
Prerequisite: PHYS 2425.
- 2372 Mechanics of Solids** **3:3:0**
 Effect of loads on deformable bodies. Uniaxial and biaxial stress-strain relationships. Indeterminate systems. Study of stresses due to axial, torsional and bending effects. Bucking of columns. Introduction to design.
Prerequisite: CVEN 2301.
- 3200 Materials Engineering** **2:0:6**
 Principles/techniques for investigating properties and behavior of engineering members and materials using experimental methods. Consideration of design parameters.
Prerequisite: CVEN 2372.
- 3290 Engineering Probability and Statistics** **2:2:0**
 Principles of systems analysis utilized for solving civil engineering problems. Application of probability, statistics, and regression analysis to the engineering design process. Specific examples in civil engineering taken under consideration. Course title and description may vary when taught as a CE Elective.
Prerequisite: MATH 2415.
Corequisite: CVEN 2372.
- 3310 Water Chemistry in Environmental Engineering** **3:2:3**
 Introduction to the hydrologic cycle and the chemistry and microbiology of the natural aquatic environment. Emphasis is on the physical, chemical and biological characterization of water and wastewater systems in relation to man's environment. Laboratory work is in the physical, chemical and biological analysis of water and wastewater.
Prerequisite: CHEM 1411.
- 3340 Structural Mechanics** **3:2:3**
 Analysis of loading for bridges and buildings. Effects of moving loads using influence lines. Shear and bending moment diagrams. Analysis of indeterminate structures. Introduction to structural design. Investigation of frames, girders and bents.
Corequisite: MATH 3401.
Prerequisite: CVEN 2372.
- 3350 Hydraulics I** **3:2:3**
 Basic principles of fluid flow. Friction and drag studies. Calibration and design of flow measuring devices. Flow characteristics of open and closed conduits. Presentation of oral and written design reports.
Prerequisite: MEEN 2302.
- 3360 Hydrology of the Environment** **3:3:0**
 Precipitation, surface water, infiltration, and sub-surface water. Analysis of rainfall and runoff data. Collection studies. Hydraulics of wells. Net storm rain; peak discharge and flood runoff.
Corequisite: MEEN 2302.
- 3370 Water and Wastewater Treatment** **3:3:0**
 General survey of environmental engineering covering water supply and sanitary sewerage treatment systems. Design of drinking water and wastewater treatment facilities.
Prerequisite: CVEN 3310, CVEN 3350.
- 3390 Geo-technical Engineering** **3:2:3**
 Basic principles of soil behavior under load. Soil properties and classification. Study of hydraulics as applied to soil mechanics.
Prerequisite: INEN 1101. Corequisite: CVEN 2372, MEEN 2302.
- 4110 Seminar** **1:1:0**
 Discussion of ethical, professional, and technical topics related to the practice of civil engineering. Presentation of oral and written reports.
Prerequisite: Senior standing.

- 4212 Civil Engineering Systems Design Project** 2:0:6
 Planning, design, and analysis of a civil engineering system or project; an integrated and realistic group project is utilized which involves numerous major aspects of the civil engineering profession. Presentation of oral and written design reports.
Prerequisite: CVEN 3370, CVEN 3390. Corequisite: CVEN 4380, CVEN 4390.
- 4290 Civil Engineering Systems II** 2:2:0
 Principles of systems analysis utilized for solving civil engineering problems. Application of probability and statistics, numerical methods, linear programming, dynamic programming, optimization, finite elements and finite differences to the engineering design process. May be repeated for credit when topics vary.
Prerequisite: CVEN 3290 or Statistics. Corequisite: CVEN 3340, CVEN 3370, CVEN 3390.
- 4300 Structural Analysis/Graphical Design** 3:3:0
 A consideration of graphical computer-aided techniques utilized to design various systems or a study of matrix methods and the application of strain energy, slope deflection and moment distribution procedures for the design and analysis of frames, trusses and beams. May be repeated for credit when topics vary.
Prerequisite: CVEN 3340.
- 4310 Building Design/Construction** 3:3:0
 Advanced topics in Building and/or Construction Systems. Topics may include the treatment of contaminated soils, and the effects of various static, dynamic, hydraulic, and wind loads on structural frames and foundations. Environmental, social, and safety requirements may be taken under consideration. Presentation of oral and written design reports. May be repeated for credit when topics vary.
Prerequisite: Senior standing.
- 4320 Engineering Project Management** 3:3:0
 Principles governing the effective and efficient management of engineering projects including the application of comprehensive planning, scheduling, and cost estimation procedures. Presentation of oral and written design reports.
Prerequisite: Senior standing.
- 4340 Foundation Engineering** 3:2:3
 The practice of geotechnical engineering: subsurface explorations; geotechnical analysis and design of shallow footings, deep foundations, and retaining structures; stability of earth slopes, and soil improvement.
*Prerequisite: CVEN 3390.
 Corequisite: CVEN 4380.*
- 4350 Hydraulics II** 3:2:3
 Continuation of CVEN 3350-Hydraulics I emphasizing practical design applications of basic fluid mechanics principles in fluid measurement, machinery, closed conduit flow, open channel flow and hydraulic transients. Presentation of oral and written design reports.
Prerequisite: CVEN 3350.
- 4355 Environmental Engineering Systems II** 3:3:0
 Advanced topics in environmental engineering. Typical topics may include the management of solid waste, flood control systems, and the hydraulic or biological design of municipal and/or industrial treatment facilities. The effects of safety during construction and operations may also be considered. Presentation of oral and written design reports. May be repeated for credit when topics vary.
Prerequisite: Senior standing.
- 4370 Computer, Transportation/Urban Engineering** 3:3:0
 Introduction to computer systems in civil engineering. May also include the history, development and design of transportation and/or urban facilities including the utilization of GIS and/or CAD computer systems. Fundamentals of urban systems, including, if applicable, drainage requirements and the location, design, construction and maintenance of highways and pavements. Presentation of oral and written design reports. May be repeated for credit when subject matter varies.
Prerequisite: Senior Standing.
- 4380 Reinforced Concrete Design** 3:2:3
 The design of structural concrete members based upon working stress and strength design methods. Study of standard specifications. Introduction to pre-stressed concrete.
Prerequisite: CVEN 3340.
- 4390 Structural Steel Design** 3:2:3
 The design of buildings and bridge components according to standard specifications. Application of load and resistance factor and allowable stress design methods. Introduction to plastic design of steel structures.
Prerequisite: CVEN 3340.

Department of Electrical Engineering

The Bachelor of Science – Electrical Engineering (BSEE) program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET). This accreditation has been continuously maintained since 1958.

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Assistant Professors: Sayil, Wang

Laboratory Technician: Fuller

Administrative Associate: Stanley

The undergraduate program in electrical engineering at Lamar University enjoys a long history of excellence in teaching. The program prepares graduates for a wide range of opportunities by providing a curriculum strongly based in mathematics and physics and the latest state-of-the-art material in electrical engineering, including photonics, image and signal processing, instrumentation, and computer and network systems design. The interested student has ready access to faculty and lab facilities for research.

Mission Statement

The Department of Electrical Engineering supports the mission of the College of Engineering and of Lamar University through teaching, research and service designed to provide the very best undergraduate electrical engineering education possible. It is our goal to provide our students with a strong theoretical foundation, practical engineering skills, experience in interpersonal communication and teamwork, and a daily emphasis on ethics, professional conduct and critical thinking. We prepare our graduates for successful engagement in commercial and industrial enterprise, research and development, and graduate study. We emphasize and support the training necessary for practice as professional engineers. Our program supports and encourages advanced study and undergraduate research activities and maintains an active research and teaching program at the graduate level through the doctorate.

Educational Objectives of the Electrical Engineering Program

- To prepare our students for successful and productive engineering careers, with emphasis on technical competency and with attention to teamwork, effective interpersonal communication and critical thinking skills.
- To prepare our students for the successful pursuit of graduate studies and for life-long learning in electrical engineering and related fields.
- To endow our students with a sense of professionalism with encouragement of professional ethics, professional licensing, and active participation in the affairs of the profession.

Program Outcomes of the Electrical Engineering Program

The educational outcomes that our students can expect to derive from the electrical engineering program are the following:

- *apply* knowledge of the physical sciences, mathematics, and engineering fundamentals to the solution of electrical engineering problems.

- *design and conduct experiments* in electrical engineering and analyze and interpret the data generated by those experiments.
- *design* components, devices, and systems to meet specific needs in electrical engineering.
- *work effectively* on multi-disciplinary teams involving people from diverse backgrounds.
- *identify and define problems* in electrical engineering and generate and evaluate solutions to those problems.
- *understand* the professional and ethical responsibilities incumbent upon the practicing electrical engineer.
- *communicate effectively*, both verbally and in writing.
- *understand* the role and impact of electrical engineering in a broader societal and global context.
- *recognize and respond* to the need for life-long learning for a successful career in electrical engineering.
- *develop an understanding* of contemporary technical and professional issues in the practice of electrical engineering.
- *use* the techniques, skills, and tools of modern engineering, including computer-based technologies such as programming, engineering and business applications, and the use of electronic media effectively in the practice of electrical engineering.

Upon admission to the electrical engineering program, the student will be advised by the faculty of the department. Students are encouraged to seek out advice and counseling during any stage of their education. The faculty's greatest satisfaction is the success of its students.

The Department of Electrical Engineering will permit transfer of up to 72 semester hours of appropriate courses from a junior college or a community college. If the necessary pre-engineering requirements are satisfied, transfer students may finish their degree in four or five semesters.

Bachelor of Science – Electrical Engineering

Suggested Program of Study

First Year

Fall Semester	Spring Semester
ENGL 1301 Composition I3	ENGL 1302/1374 Composition II3
MATH 2413 Calculus & Analytic Geo I.....4	MATH 2414 Calculus & Analytic Geo II4
ELEN 1200 Intro to Elec Engr*2	ELEN 1301 Intro to Computer & Prog.....3
CHEM 1411 Chemistry I4	PHYS 2425 Mechanics & Heat4
PHIL 1370 Philosophy of Knowledge.....3	Social Science Elective ^{SS}3
PEGA Physical Education1	
17	17

*INEN 1101 Intro to Engr may substitute

Second Year

MATH 2415 Calculus & Analytic Geo III4	MATH 3401 Diff Equ & Linear Algebra4
PHYS 2426 Heat, Electricity & Magnetism.....4	ELEN 2311 Circuits I3
CVEN 2301 Statics.....3	MEEN 2302 Dynamics.....3
INEN 2273 Engineering Economics2	ELEN 2107 Circuits Lab1
Fine Arts Elective ^{FA}3	ENGL Literature.....3
	Foreign Lang./Comm. Elective ^{FO}3
16	17

Third Year

ELEN 3108 Electronics Lab.....1	ELEN 3109 Elec Machinery Lab1
ELEN 3312 Circuits II3	ELEN 3313 Signals and Systems3
ELEN 3321 Electronics I3	ELEN 3341 Electrical Mach/Transformers3
ELEN 3381 Electrical Analysis3	ELEN 3371 Electromagnetics I3
ELEN 3431 Logic Design/Switch Sys4	ELEN 3322 Electronics II.....3
PHYS 3350 Modern Physics3	History Elective ^{HI}3
17	16

Fourth Year

ELEN 4101 Seminar I1	ELEN 4102 Seminar II1
ELEN 4206 Senior Projects Design I2	ELEN 4207 Senior Projects Design II2
ELEN 4351 Control Engineering3	ELEN 4387 Miccomputer II3
ELEN 4486 Microcomputer I4	ELEN Elective ^{EE}3
ELEN Elective ^{ES}3	ELEN Elective ^{EE}3
POLS 2301 American Government I3	History Elective ^{HI}3
16	18

Notes: (EE) Math and Science courses may be substituted if approved by the department chair.
(SS) Social Science Electives are: ECON 1301, PSYC 2301, ANTH 2346 or 2351, SOCI 1301, or (both ECON 2301 & ECON 2302)
(CO) Communication Electives are: COMM 1315, 1360, 2335, 2373, 3310, or 3340 or Introductory Modern Language Course including CMDS 2375
(FA) Fine Arts Electives are: ARTS 1301, DANC 2304, HUMA 1315, MUSI 1306, or THEA 1310
(HI) Two semesters of US or Texas history from HIST 1301, 1302, 2372, 2374, 1361, 1362, 2377, 2301.

Electrical Engineering Courses (ELEN)

1200 Introduction to Electrical Engineering	2:1:3
A survey of electrical engineering principles and introduction to the design process with emphasis on signal processing hardware and software.	
1301 Introduction to Computers and Programming	3:3:0
Digital computers, program organization, algorithm development using engineering examples and high-level languages.	
2107 Circuits Laboratory	1:0:3
Experience in the use of elementary electrical equipment and elements, including the oscilloscope. One-half hour design content. Corequisite: ELEN 2311.	
2300 Analog/Digital Circuits and Logic	3:2.5:1
For non-EE majors, this course covers a broad range of analog and digital electrical engineering topics. Although primarily intended for CS majors, may be taken by qualified students from other majors. Prerequisite: MATH 2413 or equivalent.	
2311 Circuits I	3:3:0
Linear network analysis. Fundamental network laws and methods. Transient response. Sinusoidal steady state analysis and response. Prerequisites: MATH 2414, PHYS 2426, ELEN 1301.	

3108	Electronics Laboratory Design of power supplies and amplifiers using diodes, transistors, thyristors and linear integrated circuits. <i>Prerequisite: ELEN 2107.</i> <i>Corequisite: ELEN 3321.</i>	1:0:3
3109	Electric Machinery Laboratory Three phase circuits, DC and AC motors and generators; transformers. <i>Prerequisite: ELEN 2107.</i> <i>Corequisite: ELEN 3341.</i>	1:0:3
3312	Circuits II Power calculations, polyphase circuits. Frequency response, resonance, magnetically coupled circuits, two port networks. Fourier series, Fourier and Laplace transform application. <i>Prerequisite: ELEN 2311.</i> <i>Corequisite: MATH 3401.</i>	3:3:0
3313	Signals and Systems Circuit design concepts using frequency domain. Pole-zero characterization of system response. Synthesis of passive and active networks. Two hours design content. <i>Prerequisite: ELEN 3312.</i>	3:3:0
3321	Electronics I Design and analysis of circuits using diodes, transistors, and linear and digital integrated circuits. One hour design content. <i>Prerequisite: ELEN 2311.</i>	3:3:0
3322	Electronics II In depth study of semiconductor devices and integrated circuit characteristics, stability, feedback amplifiers and frequency response. One and a half hours design content. <i>Prerequisite: ELEN 3321, 3312</i>	3:3:0
3431	Logical Design Switching Systems Switching algebra. Formulate and manipulate switching functions. Combinational networks. Flip-flops. Sequential networks. One hour design content. <i>Prerequisite: Junior standing.</i>	4:3:2
3341	Electric Machinery/Transformers A study of static and quasi-static magnetic fields and circuits, inductance and mutual inductance, with applications to transformers and electric machinery. DC and AC motors and generators. Recommend taking with ELEN 3371. One-half hour design content. <i>Prerequisite: ELEN 3312.</i>	3:3:0
3371	Electromagnetics I Vector analysis, coordinate systems, static and quasi-static electric fields, electric potential, dielectrics, capacitance, current, conductance, magnetic vector potential, electromagnetic forces. Maxwell's Equations, plane waves, transmission lines and Smith chart analysis. <i>Prerequisite: MATH 3401, PHYS 2426, ELEN 2311.</i> <i>Corequisite or prerequisite: ELEN 3341.</i>	3:3:0
3381	Electrical Analysis Application of the digital computer to analysis and design of electrical systems using numerical methods. One hour design content. <i>Prerequisite: MATH 3401, ELEN 2311, 1301.</i>	3:3:0
4101	Electrical Engineering Seminar I A study of the literature of electrical and related engineering fields; preparation and presentation of papers on electrical subjects. <i>Pre or Corequisite: ELEN 4206 or 4207.</i>	1:1:0
4102	Electrical Engineering Seminar II Preparation, presentation and discussion of material on the engineering profession, the interface between technology and society, and new areas of engineering involvement. <i>Pre or Corequisite: ELEN 4206 or 4207.</i>	1:1:0

- 4206 Senior Projects Design** 2:1:5
Senior design projects with hardware implementation and testing. Preparation of project proposals, formal report and presentation. Two hours design content.
Prerequisite: ELEN 2107, 3108, 3109, 3322.
- 4207 Senior Projects Design** 2:1:5
Senior design projects with hardware implementation and testing. Preparation of project proposals, formal report and presentation. Two hours design content.
Prerequisite: ELEN 2107, 3108, 3109, 3322.
- 4304 Advanced Topics** 3:3:0
Topics are selected on the basis of the needs of an adequate number of students. May be repeated for credit when topics vary. Topics include artificial neural networks, digital signal processing, advanced electromagnetics, fault tolerant design, fiber optics, advanced power systems, and VLSI (very large scale integrated circuit) design.
Prerequisite: ELEN 3312, 3322.
- 4323 Electronics III** 3:3:0
Analog systems with semiconductor elements, frequency response, feedback and feed forward amplifier design, power electronic devices with regulated power supplies. Two hours design content.
Prerequisite: ELEN 3322.
- 4342 Electric Power Systems** 3:3:0
An introduction to electric power system analysis. Transmission line calculations, system operation, short circuit computations. One hour design content.
Prerequisite: ELEN 3341, 3371.
- 4351 Control Engineering** 3:3:0
Transfer functions, stability criteria, time response, frequency response, root locus, design, and compensation. One hour design content.
Prerequisite: ELEN 3313.
- 4361 Communications I** 3:3:0
Principles of modulation, random signal theory and network analysis, basic information theory, analysis of noise. One hour design content.
Prerequisite: ELEN 3312, 3321.
- 4372 Electromagnetics II Topics** 3:3:0
Intermediate-level electromagnetics topics. May be repeated for credit when topics vary. Topics may include fiber optic wave guides and systems, communication antennas, microwave circuits and systems, radar theory and applications, etc. One and a half hours design content.
Prerequisite: ELEN 3371.
- 4381 Instrumentation** 3:3:0
Unified methods for the design of signal conditioning circuits between sensors and computers. Accepted practice for sensor based microprocessor and microcomputer data acquisition and processing systems. Instrumentation amplifier circuits. Two hours design content.
Prerequisite: ELEN 3321, 3431.
- 4486 Microcomputer I** 4:3:2
Introduction to assembly language programming, microcomputer architecture, and operating systems. One and a half hours design content.
Prerequisite: ELEN 3431.
- 4387 Microcomputer II** 3:2:5:1
Advanced assembly language, microcomputer organization, interfacing with peripheral devices and computer software development systems. One and a half hours design content.
Prerequisite: ELEN 4486.
- 4390 Topics in Computer-aided System Design** 3:2:3
Virtual systems design including LabView based Virtual instrumentation; or other complex electrical engineering systems design based on modern virtual programming languages; or CAD-based VLSI design; or Fault Diagnosis and Fault Tolerant Design. May be repeated for credit when topic varies. Two hours design content.
Prerequisite: Junior standing in electrical or computer engineering.

Department of Industrial Engineering

The Bachelor of Science in Industrial Engineering program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

Department Chair: Victor Zaloom

2014 Cherry Building, Phone 880-8804

Professors: Zaloom, Chu

Associate Professor: Thomas

Assistant Professor: Underdown, Craig

Adjunct Faculty: Duffy, Kim, J. Smith, R. Smith

Laboratory Technician: Costa

Administrative Assistant: Craigen

Degrees Offered

The Department of Industrial Engineering offers Bachelor of Science degrees in Industrial Engineering and in Industrial Technology.

Industrial Engineering

Industrial engineering serves vital functions in today's world and provides a wide range of career opportunities. It is particularly well positioned to develop individuals who provide solutions for the fields of re-engineering and right-sizing of organizations, economic analysis and associated solutions, quality assurance management, plant operation control/design and managerial problem solving that require a knowledge of fundamental science and engineering practices including human engineering.

Industrial engineering deals not only with technology but also with people. It especially deals with managerial problems requiring knowledge of fundamental science and engineering practice for their solutions. The Department of Industrial Engineering at Lamar University is one of the leaders in integrating computer applications including computer-aided design and computer-aided manufacturing into the curriculum.

Industrial engineers combine advanced study in management systems, economics and decision-making to answer such questions as: "What products or services should we offer? What materials and methods should we use? How can we best motivate and reward people? How can we improve quality, productivity and service?"

Typical responsibilities of the industrial engineer involve design, operation and management. While manufacturing industry demands many graduates, increasing numbers are finding satisfying employment in other kinds of businesses. Airlines, banks, restaurant chains, department stores and hospitals—all use industrial engineers. Governmental agencies of all sorts are attracting graduates.

An advisory committee of successful alumni from industry supports the department's academic staff. The Lamar University Industrial Engineering Department provides a campus home and friendly team atmosphere with a focus on preparation of students for career leadership.

Mission Statement

Our mission is to provide quality education and meaningful career opportunities for both undergraduate and graduate students. We develop highly qualified graduates with potential to assume positions of increasing responsibility.

Our mission will be accomplished by recruiting and educating qualified students in an accredited curriculum of academic course work and experiences. Demand for graduates will be driven by frequent contact with employers through initiatives such as advisory council meetings, continuing education, co-op programs, consultation, research/development, publications, and student projects.

Our Vision

Our vision is to be the "Preferred Provider of Industrial Engineering Graduates and Technology." We will accomplish our vision by: (1) recruiting quality students, (2) developing employer-focused relationships (3) increasing supporting resources, and (4) integrating academic course work and industrial engineering experiences.

Industrial Engineering Department Goals

1. Recruit high-quality industrial engineering students
2. Prepare students with skills to compete through course work in an accredited program
3. Enhance students' career opportunities through frequent employer contacts and work experiences
4. Encourage students to develop leadership skills
5. Encourage students to pursue life-long learning
6. Develop relationships with employers of industrial engineering skills
7. Increase department resources through growth in enrollment, development, and funded projects
8. Conduct applied research and publish results with the ultimate goal of technology transfer for the betterment of mankind
9. Provide exemplary service for the benefit of the University, the Beaumont metropolitan community, the State of Texas, local and global business and industrial organizations, and the engineering profession

Industrial Engineering Program Objectives

Graduates of the BSIE program are expected to be able to practice the following:

1. apply their broad-based education to understand the impact of industrial engineering solutions in the context of relevant societal issues.
2. analyze and solve industrial engineering problems in practice by applying fundamental knowledge of mathematics, science, and engineering using modern engineering techniques, skills, and tools.
3. identify, formulate, and solve industrial engineering problems through a process that includes: Problem definition or goal specification, data gathering and analysis, alternative design generation and evaluation, design selection, and design communication.
4. have a knowledge and understanding of the stochastic nature of complex systems and be able to apply that knowledge to enhance decision making.

5. manage resources to meet performance, cost, time, safety, and quality requirements.
6. (a) design and conduct scientific and engineering experiments and (b) analyze and interpret the resulting data.
7. apply continuous improvement in practice.
8. function and communicate both individually and within multidisciplinary teams.
9. understand their professional and ethical responsibility and be able to apply that knowledge in practice.
10. understand their need for life-long learning and be able to put this knowledge to practice.
11. have experienced an academic environment that facilitated and encouraged learning.
12. have the ability to assume positions of increasing responsibility.
13. design, develop, implement and improve systems that include people, materials, information, equipment, and energy.
14. integrate systems using appropriate analytical, computational, and experimental practices.

Industrial Engineering Program Outcomes

The following outcomes are achieved in one or more courses in the BSIE curriculum. Graduates will

1. apply knowledge of mathematics, science, and engineering to the analysis of industrial engineering problems,
2. design and conduct scientific and engineering experiments, as well as to analyze and interpret data
3. design a system, component, or process to meet desired needs
4. function on multidisciplinary teams
5. identify, formulate, and solve engineering problems
6. have an understanding of professional and ethical responsibility
7. have an ability to communicate effectively both in writing and orally
8. have the broad education necessary to understand the impact of engineering solutions on society both locally and globally
9. recognize the need for, and ability to engage in life-long learning
10. have a knowledge of contemporary issues
11. use the techniques, skills, and modern engineering tools necessary for engineering practice
12. design, develop, implement and improve systems that include people, materials, information, equipment, and energy
13. integrate systems using appropriate analytical, computational, and experimental practice
14. interact with practicing engineers through the use of (a) adjunct faculty, (b) programs and seminars sponsored by the Department or professional societies, (c) tours and field trips, and (d) attendance at regional or national IIE conferences
15. integrate into program courses faculty experience gained from research, professional experience, and consulting.

Bachelor of Science – Industrial Engineering

Suggested Program of Study

First Year	
Fall Semester	Spring Semester
ENGL 1301 Composition I3	ENGL 1302/13743
MATH 2413 Calculus & Anal Geom I.....4	MATH 2414 Calculus & Anal Geom II4
CHEM 1411 Gen Chemistry4	ELEN 1301 Intro to Computers3
INEN 1101 Intro to Engineering1	PHYS 2425 Mechanics & Heat4
PHIL 1370 Philosophy of Knowledge.....3	INEN 2360 Computer App in IE3
PEGA1	
16	17
Second Year	
MATH 2415 Calc & Anal Geom III4	MATH 3401 Diff Equa & Lin Alg4
PHYS 2426 Heat, Electricity & Magnetism.....4	MEEN 2302 Dynamics.....3
CVEN 2301 Statics3	ELEN 2311 Circuits I.....3
INEN 3320 Probability & Statistics3	INEN 4320 Stat Decision Making for Engr3
INEN 2273 Engr Econ2	INEN 3380 Work Design3
16	16
Third Year	
INEN 4315 Industrial Management3	INEN 4345 CIM3
INEN 3322 Engineering Matls and Processes.....3	INEN 4316 Industrial and Product Safety3
INEN 4350 Production & Invent. Control.....3	INEN 4370 Operations Research.....3
INEN 4300 Quality Improvement3	Elective: Lab science (1)4
ECON 1301 Social Science Elect (2).....3	
HIST 1 (1301-2377)3	
18	16
Fourth Year	
INEN 4375 Simulation of IE Systems3	Elective: Fine Arts (6)3
INEN 4312 IE Systems Design3	COMM/Mod Lang (4)3
INEN/TECH Elective (3)3	INEN 4385 IE Design3
English Lit (5)3	INEN/TECH Elective (3)3
POLS 2301 American Gov't. I.....3	POLS 2302 American Gov't. II3
15	15
Total Semester Hours 129	

Notes:

- (1) CHEM 1412 or another course approved by the INEN advisor.
- (2) Social science electives are ECON 1301, PSYC 2301, SOCI 1301, ANTH 2346 or (ECON 2301 and ECON 2302).
- (3) A 3000- or 4000-level INEN course approved by INEN advisor.
- (4) COMM 1315, 1360, 2335, 2373, 3310, 3340, or Modern Language including CMDS 2305, American Sign Language.
- (5) Any course in Sophomore Literature (ENGL 2322-2377) will satisfy this requirement.
- (6) Fine arts electives are: ARTS 1301, DANC 1370, HUMA 1315, MUSI 1306 or THEA 1310.

Industrial Technology

The Department of Industrial Engineering also offers a Bachelor of Science degree in Industrial Technology. This curriculum is especially designed to prepare two-year technology graduates to work effectively in the engineer-technologist team and to assume management responsibilities.

The first two years of this program are very flexible and are commonly taken at the Lamar Institute of Technology or Lamar State College at Orange or Port Arthur. Students are also accepted from other technical two-year programs throughout the state and nation. This degree requires successful completion of an Associate of Applied

Science degree—or equivalent—composed of a minimum of 36 semester hours of related and sequential courses. Technology courses beyond those specified in a major field must be approved by the Industrial Engineering Department.

Admission to the Industrial Technology Program will be granted, upon application, after completion of a minimum of 40 semester hours toward the Associate of Applied Science Degree or the Engineering common program with a grade point average of at least 2.00.

Lamar Institute of Technology students who intend to continue their education to obtain this degree should substitute six hours of Freshman English for Business Communication and MATH 1314 for Technical Math with their advisor's approval.

Any student in the Industrial Technology program considering working toward an Industrial Engineering degree at any time in the future should so inform his or her advisor.

Bachelor of Science – Industrial Technology

Suggested Program of Study

First Year

First Semester	Second Semester
Technology Courses9-12	Technology Courses9-12
Engl Comp I3	Engl Comp II3
COMM/Mod Lang (1)3	MATH 13143
15-18	15-18

Second Year

Technology Courses12	Technology Courses12-15
INEN 3300 Intro to IE3	Elective: Social Science (2)3
PEGA1	
16	15-18

Third Year

INEN 2301 Appl of Quant Mtds3	INEN 2360 Computer Apps in IE3
INEN 3322 Engr Matls & Processes3	INEN 3380 Work Design3
PHIL 1370 Philosophy of Knowledge3	English Lit (4)3
Lab Science 14	Lab Science 24
History 1 (3)3	History 2 (3)3
16	16

Fourth Year

INEN 3330 Engineering Economy3	INEN 4301 Quality Control Apps3
INEN 4312 IE Systems Design3	INEN 4351 Prod. and Invent. Sys.3
INEN 4315 Industrial Mgmt3	INEN Elective (5)3
INEN Elective (5)3	Elective: Fine Arts (6)3
POLS 2301 American Govt I3	POLS 2302 American Govt II3
15	15

Total Semester Hours: 123

Notes:

- (1) COMM 1315, 1360 (hon.), 2335, 3310, 3340, CMDS 2375 (American Sign Language) or Modern Language.
- (2) Social science electives are ECON 1301, PSYC 2301, SOCI 1301, ANTH 2346 or (ECON 2301 and ECON 2302).
- (3) Select from HIST 1301, 1302, 1361 (hon.), 1362 (hon.), 2373, 2374, 2377.
- (4) Any course in Sophomore Literature (ENGL 2322-2377) will satisfy this requirement.
- (5) A 3000- or 4000-level INEN course approved by INEN advisor.
- (6) Fine arts electives are: ARTS 1301, DANC 1370, HUMA 1315, MUSI 1306 or THEA 1310.

Industrial Engineering Courses (INEN)

1101	Introduction to Engineering History of engineering, philosophy of engineering practice, the electronic calculator and analysis of the problems of being an engineering student.	1:1:0
2273	Engineering Economics The time value of economic resources, engineering project investment analysis, effect of taxes on engineering project decisions. <i>Prerequisite: MATH 2413</i>	2:3:0
2301	Applications of Quantitative Methods Introduction and applications of differential calculus, probability and statistics, and linear algebra. <i>Not open to students majoring in engineering</i> <i>Prerequisite: MATH 1314</i>	3:3:0
2360	Computer Applications in Industrial Engineering Problems in application areas such as operations research, production planning and scheduling, quality and inventory control will be presented. Software packages will be used as aids to solve problems normally encountered by industrial engineers.	3:3:0
3300	Industrial Engineering Introduction to Industrial Engineering, its tools and techniques.	3:3:0
3320	Probability and Statistics for Engineering Probability definitions, sample spaces, condition probability, Bayes's Theorem, independence, random variables, discrete and continuous distributions, expectation and variance, and testing hypotheses. <i>Prerequisite: MATH 2413</i>	3:3:0
3322	Engineering Materials and Processes Basic principles underlying the behavior of engineering materials, methods and processes. Machine tool process planning and operation, safety, quality and economics. Introduction to digital programming of machine tools and robots. <i>Prerequisite: Junior standing, higher-level programming language</i>	3:2:3
3330	Engineering Economy Economics applied to the evaluation of engineering proposals. The effects of depreciation, taxation and interest rates. <i>Not open to students majoring in engineering.</i> <i>Prerequisite: MATH 1314 and INEN 2301</i>	3:3:0
3380	Work Design Determination of work content, layout, methods, and times required for manufacturing tasks. Design of jobs and workplace for productivity and human value content. <i>Prerequisites: INEN 3320 or 2301</i>	3:2:3
4300	Quality Improvement Statistical methods and other industrial engineering analysis and design tools are used to control and improve quality and assure requirements are met. <i>Prerequisite: INEN 3320</i>	3:3:0
4301	Quality Control Applications Quality assurance and the application of statistics to the control of quality. Control charts, acceptance sampling reliability and the role of standards in the quality function. <i>Not open to students majoring in engineering.</i>	3:3:0
4312	IE Systems Design Identification and analysis of industrial engineering problems. Design of industrial engineering systems. <i>Prerequisite: INEN 2360, 3320, 3322 and 3380</i>	3:3:0
4315	Industrial Management Provides a foundation for becoming a manager in an industrial organization. Topics include: Strategic planning, culture change, organizational analysis and technology management. Students will apply decision-making methodologies to hypothetical situations. <i>Prerequisite: Senior standing</i>	3:3:0
4316	Industrial and Product Safety Loss control engineering. Mandatory and voluntary standards. Product liability. <i>Prerequisite: Senior standing and INEN 3380.</i>	3:3:0
4320	Statistical Decision Making for Engineers Analysis of data to help the engineer/executive make decisions. Evaluations of performance claims. <i>Prerequisite: INEN 3320.</i>	3:3:0
4345	Computer Integrated Manufacturing (CIM) Study of computer aided design and computer aided manufacturing to include geometric modeling in a 3D solids environment, analysis of engineering design problems, robotics, computer numerical control (CNC), and manufacturing control systems. <i>Prerequisite: INEN 3322</i>	3:3:0

4350	Production and Inventory Control Techniques for planning and controlling production and inventories. Modern materials requirements planning. <i>Prerequisite: Junior standing</i>	3:3:0
4351	Production and Inventory Systems The design and operation of systems for managing production and inventories. <i>Not open to students majoring in engineering.</i> <i>Prerequisite: INEN 3301 or INEN 3300</i>	3:3:0
4369	Engineering Management Transition from engineering to management decision-making responsibilities. A comparison of planning, organizing and staffing in a technical environment, technical project management, team leadership, and appraising engineers. <i>Prerequisite: Senior standing</i>	3:3:0
4370	Operations Research An introduction to the construction and mathematical models of organizational systems to aid executives in making decisions. <i>Prerequisite: INEN 3320</i>	3:3:0
4374	Human Factors Engineering Convey human factors considerations in design and research. Applications to include control panels, audio and video displays, computer workstations, special accommodations. <i>Prerequisite: INEN 3380</i>	3:3:0
4375	Simulation of I.E. Systems Introduction to concepts of simulation modeling and analysis with application to manufacturing and service systems. Students will apply problem solving and process analysis techniques to an industrial engineering problem and propose an improved systems design. <i>Prerequisite: INEN 2380, 3320</i>	3:3:0
4376	Occupational Ergonomics Application of ergonomics to the design and/or redesign of jobs, manufacturing workstations, and other work environments to achieve increased profitability and reductions in injury/illness. <i>Prerequisite: INEN 3380</i>	3:3:0
4379	Facilities Design Study of concepts and methods used to design an effective facility layout and materials-handling system. <i>Prerequisite: Senior standing</i>	3:1:6
4385	I.E. Design Students design systems to solve a problem or problems typical of those encountered by practicing industrial engineers. Students work in teams to formulate issues, propose solutions, and communicate results in formal written and oral presentations. <i>Prerequisites: INEN 4300, 4312, 4320, 4345, 4370, 4375.</i>	3:1:6

Department of Mechanical Engineering

Program accredited by the Engineering Accreditation Commission of the Accreditation Board of Engineering and Technology.

Department Chair: Malur Srinivasan **2008 Cherry Building, Phone 880-8769**

Professors: Corder, Srinivasan, Young

Assistant Professor: Aung

Laboratory Technician: Leggett

Mission Statement

The mission of the Department of Mechanical Engineering at Lamar University is to provide high-quality educational and meaningful career opportunities for its graduates, so they may assume professional positions of increasing responsibility. Recruiting and

educating students in an accredited curriculum of course work and experiences reflects the department's mission. Demand for graduates of the department will be enhanced by frequent contact with potential employers through initiatives such as co-op programs, consultations, research and development, and student projects. Frequent program assessment ensures that students' and employers' needs drive the continual refinement of curricula and departmental objectives.

Vision

The vision of the mechanical engineering department at Lamar University is to be a leader in training students for the mechanical engineering profession. The mechanical engineer may be perceived as one who is engaged in a diverse profession encompassing the analysis, design, synthesis and material optimization for a wide variety of mechanical and thermal systems. The mechanical engineer must work closely with other engineering disciplines to provide tools and equipment components to enable them to practice their professions. In order to cover this wide range of requirements, the mechanical engineer needs a solid foundation in basic sciences, mathematical sciences and engineering.

Mechanical Engineering Program Educational Objectives

As defined by American Society of Mechanical Engineers (ASME) International, mechanical engineers are men and women who design, develop and manufacture machines that produce, transmit or use power. There is hardly an area in modern life that has not been influenced by a mechanical engineer at some point along the path from invention to installation. Mechanical engineering knowledge is essential to build automobiles, airplanes, ships, satellites and health care equipment, to name a few. Mechanical engineering occupies this unique position as it effectively utilizes basic sciences, mathematical sciences and engineering science and technology.

The major goal of the Department of Mechanical Engineering of Lamar University is to prepare undergraduate students for challenging and rewarding careers in the mechanical engineering profession. For this purpose, the mechanical engineering program is designed to educate students in the thermal systems and mechanical systems areas. The teaching focus is on basic and mathematical sciences in the freshman and sophomore years, and on engineering sciences in the junior year. In the senior year, the students are educated to develop skills to use the knowledge gained in the sophomore through junior years in mechanical engineering applications.

Keeping in view the above considerations, the faculty, in consultation with the mechanical engineering advisory council, has established the following educational objectives; these are consistent with and supportive of the Lamar University College of Engineering educational objectives and prepare mechanical engineering students to solve problems ethically and economically by:

1. Educating them thoroughly in basic mathematical and engineering sciences and engineering technology with the object of using the knowledge in the profession.
2. Helping them to develop skills pertinent to the design process involving formulation of problems, creative thinking, effective communication, synthesis of information and team work.

3. Helping them to understand the importance of their professional and ethical responsibilities.

Mechanical Engineering Program Outcomes

The purpose of the mechanical engineering program of Lamar University is to ensure that the graduates have:

- (a) an ability to apply knowledge of mathematics, science and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component or process to meet desired needs
- (d) an ability to identify, formulate and solve engineering problems
- (e) an understanding of professional and ethical responsibility
- (f) an ability to communicate effectively
- (g) the broad education necessary to understand the impact of engineering solutions in a global and societal context
- (h) a recognition of the need for, and an ability to engage in, life-long learning
- (i) a knowledge of contemporary issues
- (j) an ability to use the techniques and skills of modern engineering practice
- (k) a knowledge of chemistry and calculus-based physics with depth in at least one
- (l) an ability to apply advanced mathematics through multivariate calculus and differential equations
- (m) an ability to use statistics and linear algebra
- (n) an ability to work professionally in both thermal and mechanical systems areas including the design and realization of such systems
- (o) an ability to work effectively as team members in mechanical engineering projects
- (p) a knowledge of manufacturing, maintenance and inspections for engineering systems

The outcomes will be assessed from periodical surveys conducted among past and present students and other constituents such as the members of the department advisory council. The inputs provided by them will be thoroughly analyzed to identify and incorporate any corrections or modifications in the outcomes.

Bachelor of Science – Mechanical Engineering

Suggested Program of Study

First Year

Fall Semester	
ENGL 1301 Composition I	3
MATH 2413 Calculus & Anal Geom I.....	4
CHEM 1411 Gen Chemistry	4
INEN 1101 Intro Engineering	1
PHIL 1370 Philosophy of Knowledge.....	3
PEGA	1
	16

Spring Semester	
ENGL 1302/1374 Composition	3
MATH 2414 Calculus & Anal Geom II	4
ELEN 1301 Intro to Computers	3
PHYS 2425 Mechanics & Heat	4
History 1.....	3
	17

Second Year

MATH 2415 Calc & Anal Geom III	4	MATH 3401 Diff Equa & Lin Alg	4
PHYS 2426 Heat, Electricity & Magnetism.....	4	MEEN 2302 Dynamics.....	3
CVEN 2301 Statics.....	3	ELEN 2311 Circuits I.....	3
CHEN 2374 Thermodynamics I	3	CVEN 2372 Mechanics of Solids	3
INEN 2273 Eng Econ	2	MEEN 3350 Introduction to CAE	3
History 2.....	3		
	19		16

Third Year

First Semester		Second Semester	
MEEN 3340 Dynamic System Analysis	3	MEEN 3210 Measurements Lab	2
MEEN 3311 Fluid Mechanics	3	MEEN 3310 Heat Transfer.....	3
MEEN 3380 Thermodynamics II.....	3	MEEN 3300 Design of Mechanisms	3
INEN 3322 Process Engineering	3	MEEN 3320 Mech Design I	3
Elective: Fine Arts (2)	3	English Lit	3
	15	POLS 2301 American Govt I.....	3
			17

Fourth Year

First Semester		Second Semester	
MEEN 4310 Integrated Systems Design	3	MEEN 4316 Engineering Design Project.....	3
MEEN 4313 Thermal Sys Des	3	MEEN 4317 Dyn Sys Analysis	3
MEEN 4319 Materials Science	3	MEEN Elective	3
MEEN 4323 Mech Des II	3	Elective: Math/Science (1)	3
POLS 2302 American Govt II	3	Elective: Soc Sci (3).....	3
MEEN Elective	3	Elective: Comm or Mod Lang (4)	3
MEEN 4110 Seminar	1		
	19		18

NOTES

- (1) INEN 4320 or MATH 3370 or another calculus-based probability and statistics course approved by the MEEN chair.
 (2) Fine Arts electives are: ARTS 1301, DANC 1370, HUMA 1315, MUSI 1306 or THEA 1310.
 (3) Social Sciences electives are: ECON 1301, PSYC 2301, ANTH 2346, SOCI 1301, or ECON 2301 and ECON 2302.
 (4) COMM or modern language electives are: COMM 1315, COMM 1360, COMM 2335, COMM 2373, COMM 3310, COMM 3340 or an introductory language, including CMDS 2305.

Mechanical Engineering Courses (MEEN)

2302 Dynamics		3:3:0
Kinematics of rigid bodies, kinetics of rigid bodies, work and energy, impulse and momentum. <i>Prerequisite: CVEN 2301 or equivalent, MATH 2415 or concurrent.</i>		
3210 Measurements Laboratory		2:1:3
Theory and application of measurements with various instruments are treated. Topics include technical report writing, statistics, and data acquisition. Experiments involving pressure, temperature, speed, power, torque, frequency and flow measurements are conducted, documented and reported. <i>Prerequisite: MEEN 3311 and MEEN 3380.</i>		
3300 Design of Mechanisms		3:3:0
Introduction to the concepts associated with the design of machine elements. Kinematics in the analysis of mechanisms: centroids, velocities and accelerations in plane mechanisms; rolling and sliding in belts, chains and cams; gears in plane or epicyclic trains. <i>Prerequisite: MEEN 2302 and CVEN 2372.</i>		
3310 Heat Transfer		3:3:0
Theory of conduction, convection, radiation and heat transfer with engineering techniques and applications. <i>Prerequisite: MATH 3401. Pre or corequisite: MEEN 3311.</i>		

- 3311 Fluid Mechanics** 3:3:0
Fluid-flow concepts are presented through the derivation and application of the basic equations of continuity, energy and momentum. Engineering aspects of flow measurement, pressure-drop calculations and pumping requirements are considered.
Prerequisites: MEEN 2302, CHEN 2374, CVEN 2372 and MATH 3401.
- 3320 Mechanical Design I with Lab** 3:2:3
The design of machine components considering loads, stress, deflection and stiffness, material properties; failure theories; designing for static strength and fatigue life. A written and oral presentation of the conceptual design of a machine to meet a specified societal need is required.
Prerequisites: CVEN 2372, MEEN 3350.
- 3340 Engineering Analysis** 3:3:0
Physical and mathematical aspects of mechanical, hydraulic, pneumatic, thermal, and electrical systems are introduced. Analysis techniques for modeling the dynamic performance of lumped mass systems are presented and applied using a unified state-space representation. Both formal analytical and extensive computer methods are utilized for the determination of model response.
Prerequisite: MATH 3401. Pre or corequisite: MEEN 3311.
- 3350 Computer-Aided Engineering (CAE)** 3:2:3
An overview of simulation-based design, including 3-D parametric solids models and finite element analysis, and its applications in mechanical engineering. Course focuses on the modeling aspects of mechanical systems simulation in static stress and deflection analysis.
Prerequisites: MEEN 2302, CVEN 2372.
- 3380 Thermodynamics II** 3:3:0
A continuation of CHEN 2374 including availability, vapor and gas cycles, mixtures of gases, thermodynamics of chemical systems and psychrometrics.
Prerequisite: MATH 3401 and CHEN 2374.
- 4110 Seminar** 1:1:0
Instruction in effective public speaking. Oral and written presentation and discussion of selected topics including those from current literature of fields related to mechanical engineering. Professional activities are encouraged.
- 4310 Integrated Systems Design** 3:2:3
The techniques of integrated systems design are treated. The student is required to utilize these techniques by performing a system design. The formation of teams is facilitated. Instruction in team dynamics is provided. Presentation of intermediate and final results by each team to the class is required followed by peer response.
Prerequisites: MEEN courses through third year and Senior standing.
- 4313 Thermal Systems Design** 3:3:0
Heat transfer study with emphasis on heat exchanger design, optimization of energy exchange, economics and design feasibility. A formal oral presentation of a written report is made by the individual to the class followed by questions and answers.
Prerequisites: MEEN 3310, 3340, 3380
- 4316 Engineering Design Project** 3:1:6
Student research projects are planned, scheduled, designed and evaluated. Experience is gained in the execution of an engineering project and a formal technical report is required.
Prerequisite: MEEN courses through third year and senior standing.
- 4317 Dynamic Systems Analysis** 3:3:0
A continuation of MEEN 3340 with emphasis on simulation methods and computer techniques in solving engineering problems.
Prerequisite: MEEN 3340, MEEN 3350.
- 4319 Materials Science** 3:2:3
Lectures on atomic scale structures; crystal structures; point defects and diffusion; linear, planar and volume defects; noncrystalline and semicrystalline materials; introduction to phase diagrams. Laboratory experiments include tensile testing, hardness measurement, microstructure evaluation and heat treatment of steel and aluminum.
- 4320 Mechanical Vibrations** 3:3:0
Topics in mechanical vibrations including an introduction to the theory of vibrations, mechanical vibration analysis methods including finite element modeling, mechanical vibration measurement and monitoring, interpretation of vibration measurements data and other mechanical vibration topics as appropriate.
Prerequisites: MEEN 3320, MEEN 3340.

- 4323 Mechanical Design II with Lab** 3:2:3
Continuation of the design of machine components including the design of threaded fasteners and power screws, welded joints, mechanical springs, lubrication and sliding bearings, rolling-element bearings, spur gears, shafts, clutches and brakes, and miscellaneous power transmission components. Completion of the conceptual design begun in MEEN 3320 to include the addition of a power source, greater design detail in the elements, economic aspects of the design, and other matters as appropriate. Both a report and a presentation are required. Team formation and the use of various engineering software packages are encouraged.
Prerequisite: MEEN 3320.
- 4350 Turbomachinery** 3:3:0
Flow problems encountered in the design of water, gas and steam turbines, centrifugal and axial-flow pumps and compressors, aerothermodynamic design of gas turbines.
Prerequisite: MEEN 3311 and MEEN 3380.
- 4360* Intro to CFD** 3:2:3
Introduction to basic concepts underlying computational fluid dynamics (CFD) including derivation of governing equations, discretization methods, grid generation, solution algorithms, numerical solution methods, error prediction, and interpretation of numerical results. A commercial CFD software package, CFX, is used to solve practical engineering fluid flow problems.
Prerequisite: MEEN 3310, MEEN 3311, MEEN 3340
- 4361* Combustion Theory** 3:3:0
Fundamental principles of combustion theory and their applications in different engineering problems such as furnaces, automotive engines, gas turbines, and rockets. Topics covered include thermochemistry, fuels, chemical kinetics, conservation equations for reacting flows, premixed and diffusion flames, droplet burning, and pollutant emissions, introduction to numerical modeling of combustion and combustion measurement techniques.
Prerequisite: MEEN 3310, MEEN 3311, MEEN 3380
- 4362* Energy Engineering** 3:3:0
Different types of energy resources and their uses, different types of energy conversion technology such as fuel cells, thermoelectric, and solar energy conversion, and energy conservation technologies such as pinch technology and cogeneration, current and future challenges of energy generation and conservation, environmental issues such as air pollution, smog and greenhouse effects, and NO_x emissions.
Prerequisite: MEEN 3310, MEEN 3311, MEEN 3380

**Pending approval by the Texas Higher Education Coordinating Board*

Department of Computer Science

Department Chair: Lawrence J. Osborne **201 Maes Building, Phone 880-8775**
Professors: Doerschuk, Koh, Osborne, Read
Associate Professor: Tran
Assistant Professors: Foreman, Li, Qi
Adjunct Professors: Buchberger, Zhang

Mission Statement

The department will offer an education that is highly regarded by students, colleagues, industry, and other universities for its quality in teaching and in pure and applied research. We recognize that computer science requires a solid foundation in fundamental principles in order to prepare our graduates for continued learning and adaptation to the increasingly rapid changes likely to occur in information technology. Our department prepares its students for professional employment and graduate education through study and implementation of the fundamental principles of theory, abstraction, and software design, while at the same time presenting the ethical and

social issues associated with computer science. We believe that the work environment should enable everyone involved to feel a sense of confidence, power, and self worth that will lead to the joyful pursuit of learning and effective teaching. We believe this environment is best fostered when there is a climate of collegiality and collaboration among the participants. We believe that integrity, honesty and trust are the foundation for success in any enterprise.

Objectives of the Computer Science Undergraduate Programs

1. To provide instruction leading to a broad intellectual understanding of the basic areas of computer science.
2. To ensure skill in the use of the tools and technology of computer science.
3. To provide a firm theoretical foundation so that students are prepared for future technological changes and scientific advances.
4. To stimulate an understanding of the role of computer science in interdisciplinary studies and to increase interest and abilities in other areas.
5. To foster an understanding of the history of computer science and the impact of the discipline on relevant societal issues.
6. To develop the ability to analyze and solve computer science problems by applying knowledge from computer science, mathematics and software engineering.
7. To offer the preparation necessary to design and conduct simulations or other experiments and analyze and interpret data.
8. To provide skill in communication and cooperation within workgroups and larger organizations.
9. To foster an understanding of professional and ethical responsibilities and their application in real situations.
10. To establish an understanding of the need for life-long learning and curiosity.
11. To build an environment that facilitates and encourages learning.
12. To enable students to understand the process of software development including specifications, analysis, design, and testing.
13. To provide a sufficient educational foundation for leadership roles along future career paths.
14. To provide the ability to recognize and value diversity in the world and in intellectual areas.

Computing Facilities

The Computer Science Department has six switched Ethernet laboratories attached to the gigabit-bandwidth campus network infrastructure through which Lamar University is connected to the Internet and World Wide Web. The equipment in the labs is abundant and available to all students. It is comprised of a diverse assortment of hardware and software running on Silicon Graphics workstations, Sun workstations, and servers and Intel-based PCs. The department offers image and video processing equipment for multimedia related classes. Software for advanced courses and research in database, network simulation, symbolic computation, neural networks, continuous and discrete simulation, artificial intelligence and computer graphics can be readily accessed from our servers. Wireless access to the Internet is in place within the Maes Building where computer science offices are housed.

Cooperative Education Program

The Department has had long standing cooperative (COOP) programs with many companies and industries, both in southeast Texas and around the state. This has proved to be an excellent program for both the students and the companies involved. The minimum requirements to be considered for a COOP position are a GPA of at least 2.75, 30 hours college credit, and 9 hours credit in Computer Science.

Some cooperative employers are DuPont, NASA, Texas Instruments, IBM, Texaco Research, and National Instruments. Students should apply after their sophomore year.

Bachelor of Science – Computer Science

The Computer Science program at Lamar is a broad-based program in Computer Science emphasizing the areas of programming languages, data structures, information systems, theory of programming languages, software engineering, networking, database, multimedia, applications of computer science, and computer architecture. The program requires 45 hours in computer science, 20 hours in mathematics, 12 hours in laboratory science, 6 hours in free electives, 6 hours in electives as well as the general University requirements for a bachelor's degree. Students are required to take the ETS computer science field exam during the semester in which they are graduating.

The student who completes this four-year academic program is awarded a Bachelor of Science degree in Computer Science and is well prepared to pursue a professional career as a Computer Scientist, or to pursue graduate work in computer science or in an area of related specialization.

Students may also work on a dual B.S. degree in both Computer Science and Electrical Engineering. The requirements for this degree are listed on page 252 of this catalog. A complete list of courses for the double degree is described later in this document. This course list satisfies all requirements for a BS in electrical engineering, all the ABET requirements for an approved EE degree, and all the requirements for a BS in computer science. A student interested in this program must enroll in both departments. Students receiving this degree are required to take the ETS Computer Science field exam during the semester in which they are graduating.

Academic Policies of the Computer Science Department

In addition to the general university and college standards and policies stated in the Lamar University General Catalog, the Computer Science Department enforces the following academic standards and policies:

1. All undergraduate students entering the department will be enrolled as either Provisional Computer Science (PCS) or Provisional Computer and Information Science (PCIS) majors. PCS and PCIS students will be advised by the director of the Engineering Advisement Center. Upon successful completion of COSC 2371, the student will be advanced to either CS or CIS and will henceforth be advised by the undergraduate computer science advisor.
2. In most cases, successful completion of a class requires a grade of C or better. There are two exceptions. PCS and PCIS majors are expected to make a B or better in COSC 1336 before taking COSC 1337. Similarly, a grade of B or better in COSC 1337 or COSC 3306 is required before taking COSC 2336.
3. Our majors are expected to be successful in their chosen discipline. Students who have attempted at least twelve hours of computer science courses and whose GPA in such courses drops below 2.00 will be required to declare another

er major. Students receiving a B.S. in CS or a B.S. in CIS will be required to have an overall GPA of at least 2.25 and a GPA in courses taken from the computer science department of at least 2.25.

4. Pursuant to university policy, full-time students must take English composition each long semester until the minimum requirements in those areas are satisfied. In addition, full-time students must also take mathematics each long semester until at least twelve (12) hours towards the degree is completed. Students are expected to have taken mathematics at least through pre-calculus or equivalent in high school.
5. No PCS or PCIS student will be allowed to take any senior-level computer science course. *A student may not register for the same class more than four times.* If a student is registered on the first class day, the course will appear on the student's transcript. Even if the student later drops the course or withdraws from school for that semester (receiving a "Q" or "W" for that course), *the course counts as one attempt.*

Grade Replacement Policy

Students who earn a "D" or "F" in a course will have to repeat the course. The grade replacement policy, however, allows students one chance to repeat *each* course and have the previous grade removed from GPA calculation (although it will still appear show on the transcript). Students may obtain a grade replacement form from the Records Office. Students should submit the form to their advisor for approval before it is returned to the Records Office to be processed. This paperwork should be handled at the beginning of the semester when a student retakes the course. If a student decides to drop the course he or she is repeating before finishing the semester, the student must RESCIND the grade replacement form at the Records Office to take advantage of this policy at a later date.

If a student receives an incomplete ("I"), the student is allowed until the end of the next long semester to finish the work for a grade. If the student fails to complete the required work, the "I" becomes an "F". ****A student may not register a second time for a course with an "I" because it will AUTOMATICALLY become an "F".**

If a student drops one or two courses but remains registered in another course, he or she can usually "drop" on-line or by telephone *up to a certain deadline each semester (See Class Schedule for date)*. However, if the student chooses a complete withdrawal (dropping ALL classes), he or she must apply to the Records Office and *complete the necessary paperwork*. If a student does not drop courses properly, the student will receive an "F" in *all* classes. Should a student return to school *anywhere*, his or her grades and grade point average (GPA) will be on the transcript the student will be required to furnish to any school to which he or she applies.

Requirements for a Minor in Computer Science

Required courses for the minor in computer science are COSC 1336 Principles of Computer Science I, COSC 1337 Principles of Computer Science II, COSC 2336 Data Structures, CPSC 3320 Data Communications/Computer Networks, CPSC 4340 Database Design, COSC 4302 Operating Systems and COSC 4360 Software Engineering.

Computer Science/MBA Track

The Bachelor of Science in Computer Science program can prepare a student to complete the first year of the two years required to achieve an MBA in the College of Business. Thus, a student can receive a B.S. in computer science and an MBA within five years after the beginning of his/her study at Lamar. Utilizing the four electives for the B.S. in computer science and taking five additional courses can complete the equivalent of the classes taken in the first year of the MBA. The following courses required in business are necessary in addition to the computer science degree:

Economics 1301	(ECON 1301) this must be the Social Science Elective
Business Analysis 3320	(BUAL 3320) Elective 1
Management 3310	(MGMT 3310) Elective 2
Management 3320	(MGMT 3320) Extra Course
Accounting 2301	(ACCT 2301) Extra Course
Accounting 2302	(ACCT 2302) Extra Course
Finance 3310	(FINC 3310) Extra Course
Marketing 3310	(MKTG 3310) Elective 3
Office Administration 3350	(OFAD 3350) Extra Course

Students who pursue this program can begin their second year of the MBA program immediately after graduation with a B.S. in Computer Science and admission to the MBA program. Admission to the MBA program requires the Graduate Management Admission Test (GMAT).

Bachelor of Science – Computer Science

Suggested Program of Study: 120 total hours

First Year

First Semester	Second Semester
COSC 1336 Principles of CS I.....3	COSC 1337 Principles of CS II3
COSC 1172 Thinking, Speaking, Writing1	ENGL 1302/1374 Composition II3
COSC 1173 Programming Laboratory1	MATH 2413 Calculus & Anal Geo I4
ENGL 1301 Composition I3	COMM/Modern Lang. (2)3
MATH 2305 Discrete Mathematics.....3	Elective: Social Science (4)3
PHIL 1370 Philosophy of Knowledge.....3	PEGA1
14	17

Second Year

First Semester	Second Semester
COSC 2336 Data Struct/Algorithms3	COSC 2372 Computer Org/Assembly.....3
MATH 2414 Calculus & Anal Geo II.....4	MATH 1342/3370 Probability/Stat.....3
PHYS 24254	PHYS 24264
English Lit3	Lab Science (6).....4
History U.S. or Texas (3)3	History U.S. or Texas (3)3
17	17

Third Year

First Semester	Second Semester
COSC 3304 Obj-Or Design/Interface.....3	COSC 4340 Database Mgmt Systems3
MATH 2318 Linear Algebra OR MATH 34013	COSC 3308 Programming Languages3
ELEN 2300/ELEN 3331/CPSC 33103	COSC 3325 Computer Law and Ethics3
Academic Elective3	MATH 4360.Comp Mod Alg/2415 Cal III3-4
POLS 2301 American Gov I3	POLS 2302 American Gov II3
15	15-16

Fourth Year

First Semester	Second Semester
COSC 4302 Operating Systems.....3	CPSC 4360 Software Engineering.....3
COSC 4310 Computer Architecture.....3	COSC 4172 Senior Assessment.....1
COSC 3302 Computer Theory.....3	COSC/CPSC/ELEN Elective (7).....3
Fine Arts Elective (5).....3	COSC/CPSC/ELEN Elective (7).....3
	Academic Elective.....3
12	13

Comments:

- Changes and substitutions must be approved by the department chair.
- Second semester communication modern language courses must be chosen from the following courses: Communication 1315, 1360, 2335, 2373, 3310, or 3340; or CMDS 2375; or an introductory modern language course.
- Two semesters of US or Texas history from HIST 1301, 1302, 2373, 2374, 1361, 1362, 2377 or 2301.
- Social Science Electives are: ECON 1301, PSYC 2301, ANTH 2346 or 2351, SOCI 1301, or (both ECON 2302 & ECON 2301).
- Fine Arts Electives are: ARTS 1301, DANC 2304, HUMA 1315, MUSI 1306, or THEA 1310.
- Lab Sciences may be an advanced Physics Lab course or CHEM 1411, BIOL 1406, or GEOL 1403.
- Acceptable COSC/CPSC/ELEN electives are: any of the alternative courses listed above as well as: COSC 2370, 4301, 4309, 4319; CPSC 4315, 4320, 4330, 4370; ELEN 3381, 4386, 4387, 4390, 4304 (with approval).
- Students are encouraged to use the above electives to specialize in a computer related area. COSC/CPSC/ELEN courses may be taken as academic electives.

Bachelor of Science – Computer Information Science Program

The Computer Information Science program has an overall emphasis on information networking and technology. An interplay of knowledge from areas such as distributed computing, software engineering, expert systems, information retrieval and database management systems define the information technology concept. Information networks are becoming an integral and strategic component of such industries as petrochemicals, transportation, space technology, education, banking and finance, medical applications, manufacturing and retailing. Graduates of this program will possess an integrated set of skills from the fields of engineering, computer science and business.

The program requires 42 hours in computer science and computer and information sciences, 13 hours in mathematics, 24 hours in business and communications, 8 hours in laboratory science, and 6 hours of electives, as well as the general bachelor's degree requirements. Students are required to take the ETS Computer Science field exam during the semester in which they are graduating.

Graduates of this program will be prepared to respond to the varied and changing needs of an information society. Such positions as Database Administrator, Network Manager, and Chief Information Officer are among the careers that are open to graduates in this field.

Requirements for a Minor in Computer Information Science

Required courses for the **minor in computer information science** are: COSC 1336 Principles of Computer Science I, COSC 1337 Principles of Computer Science II, COSC 2336 Data Structures, CPSC 3320 Data Communications/Computer Networks, COSC 3304 Object Oriented Design or CPSC 4330 Multimedia Processing, CPSC 4340 Database Design and COSC 4302 Operating Systems.

Requirements for a Teacher's Certificate in Computer Information Science

Computer Information Science—Opt. I Specialization: (27 semester hours) COSC 1336, COSC 1337, COSC 2336, COSC 2372, COSC 3304, COSC 4302, CPSC 4340. Six hours from COSC 3308, COSC 4307, COSC 4309, CPSC 3320, CPSC 4330, MATH 2414, MATH 2305, MATH 2318, MATH 1342.

Computer Information Science—Opt. II Specialization: (27 semester hours) COSC 1336, COSC 1337, COSC 2336, COSC 2372, COSC 3304, COSC 3308, CPSC 4330, CPSC 4340, COSC 4302 or COSC 4310 or CPSC 3320.

For details concerning requirements for teacher certification and information on professional education courses, consult the College of Education and Human Development section in this catalog.

Computer Information Sciences/MBA Track

The Bachelor of Science in Computer Information Sciences program can prepare a student to complete the first year of the two years required to achieve an MBA in the College of Business. Thus, a student can receive a B.S. in computer information sciences and an MBA within five years after the beginning of his/her study at Lamar. Seven courses from the College of Business are required for the B.S. in computer information sciences. By utilizing four electives for the B.S. in computer information sciences, the equivalent of the classes taken in the first year of the MBA can be completed during the bachelor's degree. The following seven courses are required for the Computer Information Sciences bachelor's degree:

Economics 1301	(ECON 1301)
Business Analysis I 3310	(BUAL 3310)
Management 3310	(MGMT 3310)
Management 3320	(MGMT 3320)
Accounting 2301	(ACCT 2301)
Accounting 2302	(ACCT 2302)
Finance 3310	(FINC 3310)

If, in addition, the student uses the COSC/CPSC elective to take COSC 3325 (Computer Ethics and Law) and uses her/his other electives to take Business Analysis II 3320 (BUAL 3320), Marketing 3310 (MKTG 3310) and Office Administration 3350 (OFAD 3350), then the equivalent of the first year of MBA courses will have been completed. Students with a B.S. in computer information sciences who pursue this program can begin their second year of the MBA program immediately after graduation and admission to the MBA program. Admission to the MBA program requires the Graduate Management Admission Test (GMAT).

B.S. Computer Information Science

Suggested Program of Study: 121 total hours

First Year

First Semester

COSC 1172 Thinking, Speaking, Writing	1
COSC 1173 Programming Laboratory	1
COSC 1336 Principles of CS I.....	3
Engl Comp I	3
MATH 2305 Discrete Structures.....	3
PHIL 1370 Phil of Knowledge.....	3
	<u>14</u>

Second Semester

COSC 1337 Principles of CS II	3
Engl Comp II	3
MATH 2413 Calculus & Anal Geo I	4
Communications or Modern Language (2)	3
Fine Arts Elective (4).....	3
PEGA	1
	<u>17</u>

Second Year

First Semester

COSC 2336 Data Struct/Algorithms	3
MATH 1342 Probability/BUAL 3310	3
History U.S. or Texas (3)	3
Engl Lit.....	3
Lab Science (5).....	4
	<u>16</u>

Second Semester

CPSC 3304 Obj Oriented Design & Interface	3
MATH 2318 Linear Algebra	3
History U.S. or Texas (3)	3
ECON 1301 Principles and Policies	3
Lab Science (5).....	4
	<u>16</u>

Third Year

First Semester

CPSC 3320 Networking.....	3
ELEN 2300/CPSC 3310/ELEN 3331	3
POLS 2301 American Gov I	3
ACCT 2301 Financial Accounting	3
Academic Elective.....	3
	<u>15</u>

Second Semester

COSC 4340 Data Base Design	3
MGMT 3310 Org. Behavior & Mgt	3
CPSC 4315 System Administration	3
POLS 2302 American Gov II.....	3
Academic Elective.....	3
	<u>15</u>

Fourth Year

First Semester

CPSC 4370/COSC 4307	3
CPSC 4330 Multim Proc/COSC 4319 Graphics ..	3
ACCT 2302.....	3
COSC/CPSC Elective (6)	3
FINC 3310 Principles of Finance	3
	<u>15</u>

Second Semester

CPSC 4360 Software Engineering	3
COSC 4172 Senior Assessment	1
COSC/CPSC Elective (6)	3
ACCT 3340/MGMT 4310	3
COSC 4302 Intro Operating Systems	3
	<u>13</u>

Comments:

1. Changes and substitutions must be approved by the department chair.
2. Second semester communication modern language courses must be chosen from the following courses: Communication 1315, 1360, 2335, 2373, 3310, or 3340; or CMDS 2375; or an introductory modern language course.
3. Two semesters of US or Texas history from HIST 1301, 1302, 2373, 2374, 1361, 1362, 2377 or 2301.
4. Fine Arts Electives are: ARTS 1301, DANC 2304, HUMA 1315, MUSI 1306, or THEA 1310.

5. Lab Sciences must be two semester sequence chosen from among the following: PHYS 1401-1402, CHEM 1411-1412, BIOL 1406-1407, GEOL 1403-1404.
6. Acceptable COSC/CPSC electives are: any of the alternative courses listed above as well as: COSC 3302, 3308, 3325, 4301, 4307, 4309, 4310, 4319; CPSC 4320.

Dual Programs — Bachelor of Science in Computer Science and Bachelor of Science in Electrical Engineering

The Departments of Computer Science and Electrical Engineering offer qualified and highly motivated students the opportunity to earn both a Bachelor of Science degree in Computer Science and a Bachelor of Science degree in Electrical Engineering. The course list for the B.S. in Electrical Engineering is shown below. Students who are interested in this challenging option should contact the academic advisors in the computer science and electrical engineering departments. They will jointly develop a degree program for each student that will meet the ABET standards of accreditation in these two disciplines. Candidates for this degree should anticipate taking a total in excess of 160 semester credit hours.

Bachelor of Science in Electrical Engineering and Bachelor of Science in Computer Science

First Year

Fall Semester	Spring Semester
ENGL 1301 Composition.....3	ENGL 1302/1374 Composition II3
COSC 1336 Principles of CS I.....3	COSC 1337 Principles of CS II3
COSC 1173 Programming Lab.....1	MATH 2414 Calculus & Analytic Geo II4
MATH 2305 Discrete Math3	PHYS 2425 Calculus Based Physics I.....4
MATH 2413 Calculus & Analytic Geo I4	Communications/Modern Language3
ELEN 1200 Intro to EE.....2	
16	17
Summer I	Summer II
CHEM 1411 General Chemistry I4	English Literature3
ENGR 2301 Statics.....3	PHIL 1370 Philosophy of Knowledge.....3
7	6

Second Year

Fall Semester	Spring Semester
COSC 2336 Data Structures/Algorithm Analysis3	COSC 2372 Computer Organization/Assembly ..3
COSC 3304 Object Oriented Design/Interfaces.....3	COSC 3325 Computer Law/Ethics3
MATH 2415 Calculus & Analytic Geo III4	MATH 3401 Diff Equ & Linear Algebra4
PHYS 2426 Calculus Based Physics II4	MATH 1342/3370 Probability/Statistics3
History I3	ENGR 2311 Ciccuits I3
PEGA3	ELEN 2107 Circuits Lab1
20	17
Summer I	Summer II
ENGR 2374 Thermodynamics.....3	ENGR 2302 Dynamics3
Social Science Elective3	History II3
6	6

Third Year

Fall Semester		Spring Semester	
ELEN 3312 Circuits II	3	COSC 3302 Theory of Computation	3
ELEN 3381 Electrical Analysis	3	COSC 4340 Database Management Systems	3
ELEN 3331 Logic Design	3	ELEN 3322 Electronics II.....	3
ELEN 3321 Electronics I	3	ELEN 3201 Digital Lab	2
ELEN 3108 Electronics Lab.....	1	ELEN 3371 Electromagnetics I	3
PHYS 3350 Modern Physics	3		
	16		14
Summer I		Summer II	
ENGR 2273 Engineering Economics	2	Fine Arts Elective	3
POLS 2301 Intro to American Government I.....	3	POLS 2302 Intro to American Government II	3
	5		6

Fourth Year

Fall Semester		Spring Semester	
COSC 4310 Computer Architecture	3	COSC 4302 Operating Systems.....	3
CPSC 3308 Survey of Programming Languages ..	3	CPSC 4360 Software Engineering.....	3
ELEN 4386 Minicomputers I.....	3	ELEN 4387 Minicomputers II	3
ELEN 4351 Control Engineering	3	ELEN 4390 Computer Aided Design	3
ELEN 4206 Senior Project Design I.....	2	ELEN 4207 Senior Project Design II	2
ELEN 4101 EE Seminar I.....	1	ELEN 4102 EE Seminar II	1
	15	COSC 4172 Senior Assessment.....	1
			16

Computer Science Courses (COSC)

1172 Thinking, Speaking, and Writing	1:1:0
The objective of this course is to give students experiences that convey the five main activities of a person working in the area of computer science: reading, listening, thinking, speaking, writing and cooperative interaction. Designed for incoming freshmen. <i>Corequisite: COSC 1173 and COSC 1336.</i>	
1173 Programming Lab	1:1:0
Practical applications of concepts learned in Computer Science 1373 (COSC 1373). Hands-on instruction in programming in an object-oriented language, developing, debugging, and testing programming projects. <i>Corequisite: COSC 1172 and COSC 1336.</i>	
1336 Programming Fundamentals I	3:3:0
Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing and debugging. This course assumes computer literacy. <i>Corequisite: COSC 1172 and COSC 1173; MATH 2305 (recommended).</i>	
1337 Programming Fundamentals II	3:3:0
Review of control structures and data types with emphasis on structured data types. Applies the object-oriented programming paradigm, focusing on the definition and use of classes along with the fundamentals of object-oriented design. Includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering. <i>Prerequisite: COSC 1336 with grade of "B" or better/COSC 1436 and MATH 2305.</i>	
1371 Microcomputers	3:3:0
The objective of this course is to teach students to solve realistic problems using the most readily available "off-the-shelf" general applications software: word processing, spreadsheets and database systems. The course familiarizes the student with Internet resources. Students learn the basic components of computer systems and networks (This course may not be taken as a COSC/CPSC elective.)	
1373 Principles of Computer Science I	3:3:3
Major hardware components, problem solving and algorithmic development, program structures, data types, method and styles of program development, data structures and solution of significant problems using a modern object-oriented language such as C++. <i>Corequisite: MATH 2305.</i>	

- 1374 Principles of Computer Science II** 3:3:3
Continuation of COSC 1373, algorithm analysis, program verification, advanced data structures and their implementations, run time behavior of programs, program efficiency, data verification and solution of complex real world problems using these concepts.
Prerequisite: COSC 1373 and MATH 2305.
- 2336 Programming Fundamentals III** 3:3:0
Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), and algorithmic analysis.
Prerequisite: COSC 1337 with grade of "B" or better/1437 and MATH 2413 and MATH 2305.
- 2370 Scientific Programming** 3:0:3
Introduction to numerical methods and mathematical software for scientific computation. Floating point number systems, machine precision, cancellation error, conditioning and stability, Gaussian elimination and matrix decomposition. Numerical integration.
Prerequisite: MATH 2413, and MATH 2305, COSC 2336.
- 2371 Data Structures and Algorithm Analysis** 3:3:0
Data structures including several varieties of lists, trees and graphs, as well as the design and analysis of algorithms that operate on these structures. Search and sort techniques and analysis of these algorithms.
Prerequisite: COSC 1337 and MATH 2413, 1342.
- 2372 Computer Organization/Assembly Language** 3:2:2
Basic computer architecture and assembly language programming. System software, including loaders and assemblers, input-output devices and programming.
Prerequisite: COSC 1337.
- 2471 COBOL Programming** 4:3:3
Extensive coverage of the COBOL language and its variations. Emphasis on the management of secondary storage, large scale computing and access methods.
Prerequisite: A previous course in programming a high level block structured language.
- 3301 Special Language Topics** 3:3:0
The study of the theory and applications of specialized computer languages and language packages. This course may be repeated for different languages and language packages. This course is an academic elective and will not be counted as a COSC/CPSC elective.
Prerequisite: Consent of instructor.
- 3302 Introduction to Computation Theory** 3:3:0
Preliminary review/introduction of the mathematics and logic for the course. Programs and computable functions, primitive recursive functions, the universal program, Turing machines and regular languages.
Prerequisite: COSC 1337, MATH 2414 and MATH 2318.
- 3304 Introduction to User Interfaces and Object Oriented Design** 3:3:0
This course will include user interfaces and elementary topics in computer-human interaction. Software such as Motif, X-Windows, and Java GUIs will be presented. In addition, interfaces in communications and alternative architectures will be discussed.
Prerequisites: COSC 2336.
- 3306 UNIX/C++** 3:3:0
Programming in C++ in a UNIX environment.
Prerequisite: Approval of department chair.
- 3308 Survey of Programming Languages** 3:3:0
The organization of programming languages, especially run-time behavior of programs; the formal study of programming language specification and analysis, and the continued development of problem solution and programming skills.
Prerequisite: COSC 2336.
- 3321 Advanced Microcomputer Applications** 3:3:0
Hardware components, languages, operating systems, data file systems, utilities and software development for micro-computers.
Prerequisite: COSC 1371.

- 3325 Computer Law/Ethics** 3:3:0
Ethical considerations for computer educators and computer scientists, and computer-related security and privacy issues. Copyright, patent, trademark and trade secret issues, venture capitalists, tax issues, computer torts, deceptive trade practices, computer crime, contract issues, constitutional issues and international trade considerations.
Prerequisite: COSC 1336 or COSC 1371 or another programming course.
- 3340 File Structure Design** 3:3:0
Introduction to concepts and techniques for manipulating data on bulk storage devices. Topics include secondary storage devices, buffer and recovery management storage structures, query processing and query optimization algorithms.
Prerequisites: COSC 2336, COSC 2372.
- 4101, 4201, 4301 Special Topics** 3:3:0
An investigation into specialized areas of computer science under the guidance of a faculty member. This course may be repeated for credit when topics of investigation differ.
- 4172 Senior Seminar** 1:1:0
Students take exam to measure performance against other seniors in a national standardized exam. In addition, they complete an EXIT survey, discuss job opportunities, the computer industry, and career management.
- 4302 Introduction to Operating Systems** 3:3:0
To introduce the major concept areas of operating systems principles develop an understanding of the organization and architecture of computer systems at the register-transfer and programming levels of system description and the inter-relationships between the operating system and the architecture of computer systems.
Prerequisite: COSC 2371.
- 4307 Compiler Construction** 3:3:0
Formal definition of programming languages, including specifications of syntax, semantics, statements and notations used in the construction of compilers, structure of translators and compilers.
Prerequisite: COSC 2336 and MATH 2314.
- 4309 Introduction to Simulation Techniques** 3:3:0
Modeling of business and scientific discrete-event processes. Random number generation techniques, Monte-Carlo simulation, discrete-event and unit time advance algorithms, queuing theory and stochastic models. Introduction to systems simulation and industrial dynamics. Programming assignments in C++ and specialized programming languages for simulation (GPSS, SIMSCRIPT, SIMULA).
Prerequisite: COSC 2336, MATH 2413 and MATH 1342 or MATH 3370.
- 4310 Introduction to Computer Architecture** 3:3:0
This course is an introduction to computer architecture, with a special focus on the principles behind contemporary uniprocessor design. It will explore the interaction of hardware and software, and consider the efficient use of hardware to achieve high performance. Topics will include instruction set architecture, computer arithmetic, processor design, performance measurement and analysis, pipelining, caches and virtual memory, high performance MIPS implementation, parallel processors, and design tradeoffs among cost, performance and complexity.
Prerequisite: ELEN 2300 or equivalent.
- 4319 Computer Graphics** 3:3:0
Basic principles for the design, use and understanding of graphics systems. Design and implementation of graphics software packages, applications and algorithms for creating and manipulating graphic displays.
Prerequisite: COSC 2336, MATH 2318 and MATH 2414.

Computer Information Sciences Courses (CPSC)

- 3310 Computer Architecture and System Software** 3:3:0
A functional system level in-depth study of computing equipment, organization of components and devices into architectural configurations, the principles of system software and data flow through hardware/software configuration.
Prerequisite: COSC 2336.
- 3320 Data Comm./Computer Networks** 3:3:0
Study of problems and limitations associated with interconnecting computers by communication networks. Network architecture, signals, message and packet switching networks, network topology, routing, flow control, capacity assignment, protocols, coding and multiplexing.
Prerequisite: COSC 2336, MATH 2413.
- 4315 Network Systems Administration** 3:3:0
Topics include system security, shell programming, setting up user accounts, system configuration, system start-up, management of file systems and disks, and backup and restore operations.
Prerequisite: COSC 2336.

- 4320 Advanced Topics in Networks** 3:3:0
Topics will change to keep pace with changes in the field. The course will include topics from personal communication systems, mobile computing, gigabit network protocols, routing, optical computing, and multimedia.
Prerequisite: CPSC 3320.
- 4330 Multimedia Processing** 3:3:0
Television style viewing and sound interfacing to computer systems. Software and architectural interconnection requirements of digital interactive video and audio technology, graphical user interface. Definition, examples, application, review of major implementations, and architecture of hypertext systems. Voice technology: synthesis, recognition and response. Student projects.
Prerequisite: COSC 2336.
- 4340 Database Design** 3:3:0
Logical and physical database system organization; logical models; design issues; secondary storage considerations. Design issues emphasizing the normal decomposition theory of the n-ary relational data model, the RM/T model and an introduction to logical implementations of databases.
Prerequisite: COSC 3304, COSC 2336 and MATH 2318.
- 4360 Software Engineering** 3:3:0
Systems analysis, software requirements analysis and definition, specification techniques, software design methodologies, performance measurement, validation and verification and quality assurance techniques.
Prerequisite: COSC 2336.
- 4370 Introduction to Artificial Intelligence** 3:3:0
Introduction to concepts and ideas in artificial intelligence. Topics include search techniques, knowledge representation, control strategies and advanced problem-solving architecture.
Prerequisite: COSC 2336.

Department of Mathematics

Department Chair: Charles A. Coppin

Lucas Building, Phone 880-8792

Director of Mathematics Instruction: Joanne Baker

Professors: Chiou, Doblin, Matheson

Professor Emeriti: Bell, Latimer

Associate Professors: Baker, Coppin, Harvill, Laidacker, Maesumi, Mahavier, Price

Assistant Professors: Andreev, Daniel, Dawkins, Fowler, Read, Wilkinson

The Department of Mathematics offers courses in applied and pure mathematics, mathematics education for elementary and secondary school certification and statistics. These programs permit students to select courses suited to a variety of interests and career goals. Advising plays an integral role in achieving these objectives. Consequently each student is assigned an advisor to assist with scheduling and career planning.

The department offers the following Baccalaureate degrees:

Bachelor of Arts in Mathematics

Bachelor of Science in Mathematics

These two degree programs emphasize the traditional aspects of mathematics, both as a basic science and as the major tool in solving problems. They provide depth in analytical reasoning, abstraction and structure. Students graduating with these degrees are equipped to enter secondary teaching or to pursue graduate programs. They also pursue careers in a variety of fields, including positions in industry, business and government.

The importance of the mathematical sciences to the scientist and engineer cannot be overemphasized. Many phenomena of nature can best be understood when translated

into the language of mathematics. A student majoring in science or engineering at the university should become acquainted with the basic tools of mathematics.

Undergraduate education in mathematics has, and will continue, to undergo substantial changes during this decade. The computer is primarily responsible for this. High-speed computing machines have for many years been an important mathematical applications tool in business, industry and government. This has created new demands for professional applied mathematicians. Such people optimally have a solid background in basic mathematics, an understanding of algorithm design and analysis, a programming skill in at least one programming language, and finally, a mastery of important techniques in applied mathematics, such as operations research and statistics.

People with such qualifications may secure positions in industrial management, market forecasting, high-technology fabrication plants and other comparable positions.

Finally, those with an interest in statistics are quite valuable to firms—for example, banking and insurance who deal with a large amount of data and thus need professional mathematicians to develop and maintain the associated computer software.

Developmental Placement

Students who score less than 200 on the mathematics portion of the THEA must begin in DMTH 0071. Students who score from 200 to 239 must begin in DMTH 0371. Students who score from 240 to 269 must begin in DMTH 0372. Students scoring at least 270 should not start in a DMTH course, but should choose the appropriate MATH course.

Teacher Certification Mathematics

Those wishing to secure a provisional certificate—secondary with a teaching field in mathematics—need to consult the College of Education section in this bulletin for details concerning certification.

Suggested Programs of Study

Requirements Common to B.A. and B.S. Programs:

1. General requirements:
See core curriculum, p. 15
 2. Major requirements: 52 hours
 - a. MATH 2305, 2413, 2414, 2415, 2318, 3311, 3330, 3350, 3370, 3380, 3401, 4310, 4315
 - b. MATH Electives - Two advanced courses.
 - c. Two computer courses approved by the Department of Mathematics
 3. Minor requirements (see B.A., B.S. programs below)
 4. Electives (see B.A., B.S. programs below)
 5. Degree credit for Mathematics courses is allowed only for courses in which a grade of "C" or better is earned.
 6. Students graduating with a Baccalaureate Degree in Mathematics are required to take a national standardized examination. The exam presently being used is the Educational Testing Service and College Board Achievement Test. The test results should be sent directly from the testing service to the Mathematics Department of Lamar University. Students taking the exam must have completed 90 semester hours and should have credit for or be enrolled in MATH 3350.
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Bachelor of Arts – Mathematics Major

1. Additional General Requirements: Complete the course numbered 2312 in a foreign language.
2. Additional Major Requirements: None
3. Minor/Professional Development: 18 Hours
Total Hours: 125

Bachelor of Science – Mathematics Major

1. Additional General Requirements: Core lab science to be chosen from PHYS 2425 and 2426, CHEM 1411 and 1412, BIOL 1406 and 1407, or GEOL 1403 and 1404.
2. Additional Major Requirements: None
3. Minor/Professional Development: 21 Hours
To be approved by the department.
4. Electives: 9 Hours
To be approved by the department.
Total Hours 125

Minor in Mathematics

A minor in mathematics requires 21 hours of mathematics above the level of MATH 1360, including at least nine hours above MATH 3300, and excluding MATH 2312, 2376, 2377, 3300, 3312, 3313, 3314, 3315, 3316, and 3317.

Standard Curriculum for B.S. Degree Programs

First Year

First Semester	Second Semester
Engl 13013	Engl 13023
MATH 24134	MATH 24144
PHIL 13703	COSC3
MATH 23053	Lab Sci4
PEGA2	
15	14

Second Year

First Semester	Second Semester
Engl Lit3	MATH 34014
MATH 24154	POLS 23023
MATH 23183	COSC3
POLS 23013	Elective3
Lab Sci4	Professional Elective3
17	16

Third Year

First Semester	Second Semester
MATH 33803	MATH 33503
MATH 33113	MATH 33703
HIST 13013	HIST 13023
Professional Elective3	COMM 13153
Soc. Sci.3	Professional Elective3
15	15

Fourth Year

First Semester	Second Semester
MATH 43153	MATH 43103
MATH Elective3	Professional Elective6
Professional Elective6	Elective.....3
Fine Arts3	MATH Elective3
Elective.....3	
18	15

Mathematics Courses (MATH)

- 1314 College Algebra** 3:3:0
Linear and quadratic equations and inequalities, determinants, matrices, systems of equations, binomial theorem, exponential and logarithmic functions, theory of equations.
Prerequisite: 270 Math THEA or C or better in DMTH 0372.
If THEA exempt: 500 Math SAT or 19 Math ACT.
- 1316 Trigonometry** 3:3:0
Study of trigonometric functions, graphs, identities, inverse trigonometric functions, trigonometric equations, and applications of trigonometry. Recommended for students who have not had high school trigonometry.
Prerequisite: 270 Math THEA or C or better in DMTH 0372.
If THEA exempt: 500 Math SAT or 19 Math ACT.
- 1320 Geometric Structures** 3:3:0
Development of a mathematical way of thinking through a coherent first-hand experience. Emphasis on the student's deductive powers and ability to use language precisely and efficiently. Study of Euclidean geometry; Hilbert's axioms, neutral geometry, hyperbolic geometry; the axiomatic method; and an introduction to consistency, independence, and completeness of axiom systems.
Prerequisite: 270 Math THEA or C or better in DMTH 0372.
If THEA exempt: 500 Math SAT or 19 Math ACT.
- 1324 Mathematics for Business Applications** 3:3:0
Review of basic algebraic techniques, linear equations and inequalities, the mathematics of finance, matrices, linear programming and an introduction to probability and statistics.
Prerequisite: 270 Math THEA or C or better in DMTH 0372.
If THEA exempt: 500 Math SAT or 19 Math ACT.
- 1325 Elements of Analysis for Business Applications** 3:3:0
An introduction to calculus. The derivative, applications of the derivative, techniques of differentiation, exponential and natural logarithmic functions, an introduction to integral calculus.
Prerequisite: MATH 1324 or 1314, or their equivalent.
- 1342 Elementary Statistics** 3:3:0
Non-calculus based introduction to statistics, statistical measures of data, statistical description of data, elementary probability, random variables, binomial and normal distribution, estimation, testing hypotheses.
Prerequisite: MATH 1314 or its equivalent.
- 1350 Fundamentals of Math I** 3:3:0
Concepts of sets, functions, numeration systems, number theory and properties of the natural numbers, integers, rational and real number systems with an emphasis on problem solving and critical thinking. This course is designed for students seeking EC-4 or 4-8 teacher certification.
Prerequisite: MATH 1314 or the equivalent.
- 1360 Honors College Algebra** 3:3:0
Generally covers same topics as MATH 1314.
Prerequisite: 270 Math THEA or C or better in DMTH 0372.
If THEA exempt: 500 Math SAT or 19 Math ACT.
- 2305 Discrete Mathematics** 3:3:0
An introduction to combinatorial mathematics and finite mathematics required in the study of computer science. Topics include elementary set theory, relations and functions, combinatorics, an introduction to graph theory with special emphasis on trees and search algorithms, an introduction to recurrence relations and generating functions, and finite state machines.
Prerequisite: MATH 1314 or its equivalent.
- 2310 Mathematical Modeling I**
This course is specifically designed for students who will become teachers in grades 4-8. Students will examine characteristics of situations to select or create math models in algebra, geometry, and trigonometry using real-world situations.
Prerequisite: MATH 1316.

- 2312 Precalculus Mathematics** 3:3:0
Intensive review of algebra, trigonometry and analytic geometry. Prepares students for MATH 2413 and 2376.
Prerequisite: 270 Math THEA or C or better in DMTH 0372.
If THEA exempt: 500 Math SAT or 19 Math ACT.
- 2318 Linear Algebra I** 3:3:0
A first course in linear algebra, including vector and matrix arithmetic, solutions of linear systems and the Eigenvalue-Eigenvector problem, elementary vector spaces, and linear transformation theory.
Prerequisite: MATH 2413 (MATH 2376) or current enrollment in MATH 2413 (MATH 2376).
- 2376 Calculus I** 3:3:0
Sets, functions, limits, derivatives and applications, introduction to integral calculus. Designed for students majoring in business, social and life sciences.
Prerequisite: MATH 2312 or its equivalent.
- 2377 Calculus II** 3:3:0
Integral calculus and applications, functions of several variables, convergence and divergence of series and sequences. Designed for students majoring in business, social and life sciences.
Prerequisite: MATH 2376.
- 2413 Calculus and Analytic Geometry I** 4:4:0
Functions, limits, derivatives of algebraic, trigonometric, exponential and logarithmic functions, curve sketching, related rates, maximum and minimum problems, definite and indefinite integrals with applications.
Prerequisite: C or better in MATH 2312 or its equivalent.
- 2414 Calculus and Analytic Geometry II** 4:4:0
Methods of integration, polar co-ordinates, parametric equations, sequences and series, and vectors.
Prerequisite: C or better in MATH 2413 or its equivalent.
- 2415 Calculus and Analytic Geometry III** 4:4:0
Functions of several variables, partial derivatives, vector analysis, multiple integrals and differential equations.
Prerequisite: C or better in MATH 2414 or its equivalent.
- 2460 Honors Calculus and Analytic Geometry I** 4:4:0
Generally covers same topics as MATH 2413.
Prerequisite: C or better in MATH 2312 or its equivalent.
- 3300 History of Mathematics** 3:3:0
Historical origin and development of mathematical concepts through the sixteenth century. Topics include Egyptian and Babylonian mathematics, Greek mathematics, and early European mathematics.
Prerequisite: junior standing and six hours of mathematics.
- 3311 Foundations of Mathematics** 3:3:0
Introduction to mathematical logic and the language and nature of proofs. Applications to sets, mathematical induction, relations and functions.
Prerequisite: Nine semester hours of mathematics.
- 3312 Probability, Statistics, and Statistical Modeling** 3:3:0
This course is specifically designed for students who will become teachers in Grades EC-4 and 4-8. It includes principles and applications of probability and statistics with an emphasis on using real-world data collected, organized, and analyzed by the students.
Prerequisite: MATH 1350 or MATH 1316.
- 3313 Elementary Geometry** 3:3:0
The development of Euclidean geometry, concepts of measurement and co-ordinate geometry.
Prerequisite: MATH 1350.
- 3314 Foundations of Mathematics II** 3:3:0
This course is specifically designed for students who will become teachers in grades 4-8. It includes principles and applications of axioms, theorems, and proofs for the natural numbers, integers, and real numbers.
Prerequisite: MATH 3311.
- 3315 Elementary Number Theory** 3:3:0
A development of the elementary theory of numbers, Diophantine equations, congruences, Fibonacci numbers and magic squares.
Prerequisite: MATH 1350.
- 3316 Calculus Concepts – Mathematical Modeling II** 3:3:0
This course is specifically designed for students who will become teachers in grades 4-8. It includes principles of the conceptual foundations of calculus and applications to middle-school mathematics.
Prerequisite: MATH 3313.
- 3317 Problem Solving** 3:3:0
Study of heuristics and strategies used in solving problems, with extensive practice in solving word problems involving skills in arithmetic, algebra, geometry, and logic.
Prerequisite: 9 semester hours of Mathematics.

3321	Discrete Structures Combinatorics, graphs, Boolean algebra, algebraic structures, coding theory, finite state machines, machine design and computability. <i>Prerequisite: MATH 2414 and 2318, and COSC 1373.</i>	3:3:0
3330	Higher Geometry Axiomatic and set-theoretic treatment of geometry, analysis of the metric and synthetic approaches to Euclidean geometry, introduction to non-Euclidean geometries. <i>Prerequisite: MATH 3311 or consent of the instructor.</i>	3:3:0
3350	Modern Algebra An introduction to algebraic structures, groups, rings, integral domains and fields. <i>Prerequisite: MATH 3311 and MATH 2414 (or 2377).</i>	3:3:0
3370	Introduction to the Theory of Statistical Inference A calculus-based introduction to statistics, probability, special probability distributions, nature of statistical methods, sampling theory, estimation, testing hypotheses. <i>Prerequisites: MATH 2414 or 2377.</i>	3:3:0
3380	Advanced Calculus Sequences, series, Riemann integral, Weierstrass approximation theorem, Lebesgue integral. <i>Prerequisite: Math 2414 and MATH 3311.</i>	3:3:0
3401	Differential Equations and Linear Algebra Classical techniques for ordinary differential equations, linear algebra, linear systems of ordinary differential equations, series solutions and Laplace transforms. <i>Prerequisite: C or better in MATH 2415.</i>	4:4:0
4202	Partial Differential Equations Boundary value problems for the heat equation, wave equation, and potential (Laplace) equation, Fourier methods. <i>Prerequisite: MATH 2415 and MATH 3401</i>	2:2:0
4310	Complex Variables Complex numbers, analytic functions, complex line integrals, Cauchy integral formula and applications. <i>Prerequisite: MATH 2415.</i>	3:3:0
4315	Numerical Analysis Algorithms for solving linear and non-linear equations and systems thereof, interpolating polynomials, finite difference approximations of derivatives, techniques of numerical integration, one-step and multi-step methods for solving ordinary differential equations and systems thereof. <i>Prerequisite: MATH 2415 and COSC 1373, or their equivalents.</i>	3:3:0
4316	Mathematical Programming Linear programming, unconstrained and constrained optimization, Lagrange multipliers, Newton's method, steepest descent, convex programming. <i>Prerequisite: MATH 2414, MATH 2318 or MATH 3401</i>	3:3:0
4330	Linear Algebra II Vector-spaces, linear transformations, matrices, determinants, Eigenvalues, Eigenvectors, canonical forms, bi-linear mappings and quadratic forms. <i>Prerequisite: MATH 2414 and MATH 2318.</i>	3:3:0
4331	Special Problems Special advanced problems in mathematics to suit the needs of individual students. Course may be repeated for credit when the topic varies. <i>Prerequisite: Consent of instructor.</i>	3:3:0
4340	Topology An introduction to point set topology, including metrizable, compactness, embeddings, Urysohn's lemma, and homotopy. <i>Prerequisite: MATH 3380.</i>	3:3:0
4360	Computational Modern Algebra Introduction to algebraic structures such as rings, integral domains, fields, and polynomials. Emphasis on finite structures with applications to computing. <i>Prerequisite: MATH 3401.</i>	3:3:0
4380	Theory of Statistical Inference A formal introduction to statistical inference, sampling theory, general principles of statistical inference, goodness of fit tests, regression and correlation, analysis of variance. <i>Prerequisite: MATH 3370.</i>	3:3:0



Study in the creative and communicative arts prepares students in the College of Fine Arts and Communication to place an individual stamp on work at a professional level.

College of Fine Arts and Communication

Departments: Art; Communication; Communication Disorders; and Music, Theatre and Dance

Russ A. Schultz, Dean

Art Building, Office 100, Phone 880-8137

Aims and Purposes

Within the context of a philosophy that suggests that art and science may improve upon nature, the College of Fine Arts and Communication provides work on a professional level in several creative and practical disciplines. The College also assumes the role of contributing to the education of the "whole" person; therefore, with the possible exception of some of the upper-level courses, all of the work available in the College is open to and within the capabilities of most students enrolled in the University. It is the purpose of those courses in the fine arts to confront the unknown from a non-science oriented approach to knowledge, to encourage the development of aesthetic sensitivity and to provide for an enriching artistic experience. Several programs in Communication are available within the College. The goal of the coursework in these areas is to educate students for professional work within the fields of public speaking, the mass media, communication disorders and deaf education.

Degrees Offered

The College of Fine Arts and Communication offers the following degree programs:

1. Department of Art
 - Bachelor of Fine Arts with emphasis in either Studio Art or Visual Design
 - Bachelor of Science in Visual Art (Leading to All Levels Teacher Certification)
2. Department of Communication
 - Bachelor of Science in Communication Studies
 - Bachelor of Science in Communication Studies (Leading to Teacher Certification)
3. Department of Communication Disorders and Deaf Education
 - Bachelor of Science in Communication Disorders
4. Department of Music, Theatre and Dance
 - Bachelor of Music in Performance
 - Bachelor of Music (Leading to Teacher Certification)
 - Bachelor of Science in Theatre (Leading to Teacher Certification)
 - Bachelor of Arts in Theatre
 - Bachelor of Science in Dance (Leading to Teacher Certification)
 - Bachelor of Science in Dance
 - Bachelor of Arts in Dance

Descriptions of graduate programs leading to the Master of Art in Visual Art (with either a Studio Art or Art History emphasis), Master of Music, Master of Music Education, Master of Science in Audiology, Master of Science in Speech-Language Pathology, Master of Science in Deaf Studies/Habilitation, and Doctor of Education in Deaf Education degrees are discussed in the Graduate Catalog.

Humanities Courses (HUMA)

The Departments of Art; Communication; and Music, Theatre and Dance cooperate in the offering of an interdisciplinary course in fine arts appreciation.

- 1315 **Understanding the Arts** 3:3:0
Through the study of art, music and theatre this course intends to provide a medium of learning which broadens the cultural horizon, engenders respect for man's creative potential, and encourages emotional maturity through awareness and understanding of aesthetic responses.

Department of Art

Department Chair: Donna M. Meeks **Dishman Art Museum, Phone 880-8141**

Professors: Carter, Jack, Lokensgard, Meeks, Newman

Associate Professors: Hodges

Assistant Professors: Matlock, Thomas, Dyrhaug

Wallis Chair in Visual and Performing Arts: Carter

The Department of Art provides an environment designed to nurture artistic, academic and personal growth in our students. Through its curricula and community outreach the Department prepares the student for a professional career in the discipline with courses in both practice and theory. In a time when the visual arts are undergoing rapid change, the department maintains a balance between its own traditions and the unknown challenges of the future, between skill-building and theoretical insights. Educational, cultural, and academic opportunities are made available so that each student might reach his or her full potential and participate in those human experiences and qualities which are inherent in the fine arts. Building on a legacy of quality teaching, the faculty of the Department of Art is actively involved in scholarly and creative activities; serving as a model of commitment to excellence.

The Department of Art offers undergraduate instruction leading to the Bachelor of Fine Arts Degree in Visual Art with an emphasis in Visual Design or Studio Art. Students may elect courses that further professional development in the following areas: Visual Design, Illustration, Computer Graphics, Photography, Painting, Drawing, Printmaking, Sculpture, Ceramics, and Fibers. The Bachelor of Science degree is offered in visual art for students seeking all-levels art teacher certification. Art electives are available for non-majors who desire experiences in the visual arts as part of their general education.

All students entering a degree program in art must be counseled by the chair of the art department as to study options in the department. Academic advising is mandatory for all art majors. Art majors are required to follow the prescribed sequence of courses. The letter grade "C" will be the minimum prerequisite grade for continuing studio courses in sequence.

All graduating art majors must be counseled by the art department chairperson during the first semester of their senior year. During either the Fall or Spring semester prior to graduation, a candidate for a Bachelor of Fine Arts degree in art will be required to take Senior Thesis and prepare an exhibition.

A non-major student may be admitted to an art course requiring prerequisites with the consent of the instructor. A minor in art history is available to students in other programs or departments by earning 18 hours of credit approved by the art department chairperson.

Transfer credit of freshman and sophomore art courses is in compliance with the Transfer Curriculum for Visual Arts adopted by the Texas Higher Education Coordinating Board.

Minor in Art History

An art history minor consists of ARTS 1303, ARTS 1304, and ARTS 4358 and three courses chosen from the following: ARTS 4328, ARTS 4338, ARTS 4348, ARTS 4368, ARTS 4388, and ARTS 4398. To qualify for a minor, a grade of no less than "C" must be obtained in each of the courses applied to the minor.

Suggested Programs of Study**Bachelor of Fine Arts – Visual Design Emphasis**

Bachelor of Fine Arts in Visual Art with a Visual Design emphasis requires 48 hours of academic foundations with 78 credit hours of professional program and includes preparation in graphic design, digital imaging, computer animation, web design, and illustration.

First Year

First Semester		Second Semester	
ARTS 1316 Drawing I	3	ARTS 1317 Drawing II.....	3
ARTS 1311 Design I.....	3	ARTS 1312 Design II	3
Fine Arts Core	3	PHIL 1370	3
ENGL Comp	3	ENGL Comp	3
Lab Science	4	Lab Science	4
	<u>16</u>		<u>16</u>

Second Year

First Semester		Second Semester	
ARTS 2323 Drawing III	3	ARTS 2324 Drawing IV	3
ARTS 2311 Design III	3	*ARTS 1304 Art History Survey II	3
*ARTS 1303 Art History Survey I	3	ARTS 2356 Photography I.....	3
ENGL Lit	3	Social Science	3
MATH 1314 or above	3	Methods of Quantitative Analysis	3
PEGA	1		
	<u>16</u>		<u>15</u>

Third Year

First Semester		Second Semester	
ARTS 2331 Visual Design I.....	3	ARTS 4353 Computers II	3
ARTS 4358 American Art and Modernism	3	ARTS 3333 Visual Design II	3
ARTS 4343 Computers I	3	ARTS 3313 Illustration I	3
American History	3	American History	3
ARTS 3316 Watercolor I	3	Speech/Foreign Language	3
ARTS 3199 Studio Seminar	1	ARTS 3199 Studio Seminar	1
	<u>16</u>		<u>16</u>

Fourth Year

First Semester		Second Semester	
ARTS 3343 Visual Design III	3	ARTS 4399 Thesis	3
ARTS 3355 Printmaking I	3	Art Elective	3
POLS 2301	3	POLS 2302	3
Art History Elective	3	Art Elective	3
ARTS 4363 Computers III	3	Art History Elective	3
ARTS 3199 Studio Sem 1	1		
	<u>16</u>		<u>15</u>

*ARTS 1303-1304 prerequisite to all Art 3000- and 4000-level courses for art majors.

Bachelor of Fine Arts – Studio Art Emphasis

Bachelor of Fine Arts in Visual Art with a Studio Art emphasis requires 48 credit hours of academic foundations and 78 credit hours of professional program including studio elective courses. Students must select a major in one of the following areas:

Painting: 2316, 3316, 3317, 3326, 3327, 4316, 4326

Printmaking: 3355, 3365, 4355

Drawing: 2323, 2324, 3315, 3325, 4315, 4325

Sculpture: 2326, 3375, 4375

Ceramics: 3376, 3386, 4376

Photography: 2379, 3303, 4303, 4343, 4353

Fibers: 3335, 4331, 4341

First Year

First Semester	Second Semester
ARTS 1316 Drawing I3	ARTS 1317 Drawing II.....3
ARTS 1311 Design I.....3	ARTS 1312 Design II3
Fine Arts Core3	PHIL 13703
ENGL Comp3	ENGL Comp3
Lab Science4	Lab Science4
16	16

Second Year

First Semester	Second Semester
ARTS 2323 Drawing III3	ARTS 2324 Drawing IV3
ARTS 2311 Design III3	ARTS 2326 Sculpture3
*ARTS 1303 Art History Survey I3	*ARTS 1304 Art History Survey II3
MATH 13143	ARTS 2316 Painting I3
ENGL Lit3	Social Science3
PEGA1	
16	15

Third Year

First Semester	Second Semester
ARTS 3315 Drawing V3	Art Studio Elective3
ARTS 2356 Photography I.....3	ARTS 3355 Printmaking I3
ARTS 4358 American Art and Modernism3	American History3
ARTS 3199 Studio Seminar1	POLS 23013
American History3	ARTS 3335 or 33763
Methods of Quantitative Analysis3	ARTS 3199 Studio Seminar1
16	16

Fourth Year

First Semester	Second Semester
Art Studio Elective3	ARTS 4399 Thesis3
Art Studio Elective3	Art Studio Elective3
Art Studio Elective (upper div).....3	Art Studio Elective (upper div)3
Art History Elective.....3	Art History Elective3
Speech/ For Lang.....3	POLS 23023
ARTS 3199 Studio Seminar1	
16	15

* ARTS 1303-1304 prerequisite to all ART 3000- and 4000-level courses for art majors.

Bachelor of Science – Visual Art All-Levels Certification

The Bachelor of Science degree in Visual Art for those seeking all-levels art teacher certification requires 60 credit hours of professional program and 72 hours of academic foundations (including 24 hours of professional development in education). For details concerning requirements for teacher certification and information on professional education courses, consult the College of Education and Human Development section in this catalog.

First Year

First Semester	Second Semester
ARTS 1316 Drawing I3	ARTS 1317 Drawing II.....3
ARTS 1311 Design I.....3	ARTS 1312 Design II3
ENGL Comp3	ENGL Comp3
Fine Arts3	PHIL 13703
Lab Science4	Lab Science4
16	16

Second Year

First Semester	Second Semester
ARTS 2323 Drawing III3	*ARTS 1304 Art History Survey II3
ARTS 2311 Design III3	Speech/For Lang3
*ARTS 1303 Art History Survey I3	Methods of Quantitative Analysis3
ENGL Lit3	Social Science3
PEGA1	ARTS 4331 Alt Fibers3
MATH 13143	ARTS 3335 Fibercrafts3
16	18

Third Year

First Semester	Second Semester
ARTS 3355 Printmaking I3	PEDG 33203
ARTS 4358 American Art and Modernism3	POLS 23023
PEDG 33103	ARTS 4343 Computers in Art I.....3
ARTS 2356 Photography I.....3	American History3
ARTS 4371 Elem Visual Art3	ARTS 4381 Adv. Study in Vis Art3
POLS 23013	Art History Elective3
18	18

Fourth Year

First Semester	Second Semester
ARTS 3376 Ceramics I.....3	PEDG 4630 Stud Tchg All Levels/Special9
ARTS 3316 Watercolor I or ARTS 2316 Ptg I.....3	PEDG 4380 Sec Meth and Classrm Mgt3
PEDG 3326 Content Area Rdg.....3	PEDG 33803
Art Studio Elective3	
American History3	
15	15

* ARTS 1303-1304 prerequisite to all ART 3000-4000 level courses for art majors.

Art Courses (ARTS)

1301	Art Appreciation	3:3:0
	An introductory course emphasizing the understanding and appreciation of visual arts (painting, sculpture, and architecture). Open to all students.	
1303	Art History Survey I	3:3:0
	A survey of painting, sculpture, architecture and the minor arts from prehistoric times to the 14th Century.	

1304	Art History Survey II A survey of painting, sculpture, architecture and the minor arts from the 14th Century to 1789. <i>Prerequisite: ARTS 1303.</i>	3:3:0
1311	Design I The study of the elements and concepts of two-dimensional design.	3:3:3
1312	Design II Continuation of Design I with emphasis upon three-dimensional design.	3:3:3
1316	Drawing I A beginning course investigating a variety of drawing media, techniques and subjects, exploring perceptual and descriptive possibilities.	3:3:3
1317	Drawing II Continuation of Drawing I stressing the expressive and conceptual aspects of drawing. <i>Prerequisite: ARTS 1316.</i>	3:3:3
2311	Design III An advanced investigation into historical and contemporary color theories and systems.	3:3:3
2316	Painting I A course exploring the potentials of painting media with emphasis on color, composition and technique. <i>Prerequisite: ARTS 1317 and ARTS 2311.</i>	3:3:3
2323	Drawing III A life-drawing course emphasizing structure and action of the human figure. <i>Prerequisite: ARTS 1317.</i>	3:3:3
2324	Drawing IV A continuation of Drawing III with emphasis on individual expression. <i>Prerequisite: ARTS 2323.</i>	3:3:3
2326	Sculpture I An exploration of the various sculptural approaches in a variety of media, including additive and subtractive techniques. <i>Prerequisite: ARTS 1312.</i>	3:3:3
2331	Visual Design I An introduction to typography, layout and design for print and media production. <i>Prerequisite: ARTS 1311, ARTS 1312, and ARTS 2311.</i>	3:3:3
2356	Photography I An introduction to basic photographic processes and techniques used as an art medium.	3:3:3
2379	Photography II Advanced study of black and white photography as an art medium. <i>Prerequisite: ARTS 2356.</i>	3:3:3
3199	Studio Seminar Seminar for all junior and senior students seeking a Bachelor of Fine Arts degree. This course must be taken three times before enrolling in senior thesis. May be repeated for credit. <i>Prerequisite: ARTS 4358.</i>	1:1:0
3303	Large Format Camera Photography Introduction to the use of both medium format and view cameras. <i>Prerequisite: ARTS 2379.</i>	3:3:3
3313	Illustration I A computer-based media course. The preparation and execution of graphic material for reproduction. <i>Prerequisite: ARTS 1317, ARTS 1311, and ARTS 2311.</i>	3:3:3
3315	Drawing V Continuation of Drawing IV with emphasis on experimentation with various media for their adaptability to drawing principles. <i>Prerequisite: ARTS 2324.</i>	3:3:3
3316	Watercolor I Study and practice in the planning and execution of paintings in transparent and opaque watercolor. <i>Prerequisite: ARTS 2311 and ARTS 1317.</i>	3:3:3
3317	Painting II Continuation of Painting I with emphasis on individual expression. <i>Prerequisite: ARTS 2316.</i>	3:3:3
3323	Illustration II Experimentation with various techniques and/or media. Continuation of Art 3313. <i>Prerequisite: ARTS 3313.</i>	3:3:3
3325	Drawing VI Continuation of Art 3315. <i>Prerequisite: ARTS 3315.</i>	3:3:3
3326	Watercolor II A continuation of 3316. May be repeated for credit. <i>Prerequisite: ARTS 3316.</i>	3:3:3

3327	Painting III Continuation of 3317. <i>Prerequisite: ARTS 3317.</i>	3:3:3
3333	Visual Design II A survey of the principles and techniques of layout for media advertising, collateral and editorial material and the basic preparation of art for reproduction. <i>Prerequisite: ARTS 2331.</i>	3:3:3
3335	Fiber Crafts Investigation of woven structures. May be repeated for credit. <i>Prerequisite: ARTS 1311.</i>	3:3:3
3343	Visual Design III Advanced studies in layout for media advertising, collateral and editorial materials with an emphasis on portfolio development. <i>Prerequisite: ARTS 3333.</i>	3:3:3
3351	Desktop Design An introduction for the non-major to the uses of computers in design, illustration, information and text processing and desktop publishing. Focus on developing general computer skills.	3:3:3
3355	Printmaking I An introduction to printmaking with an emphasis on intaglio and relief processes. <i>Prerequisite: ARTS 2323.</i>	3:3:3
3365	Printmaking II A continuation of ARTS 3355 with emphasis on planographic and serigraphic techniques. May be repeated for credit. <i>Prerequisite: ARTS 3355.</i>	3:3:3
3371	Studies in Visual Art A survey of the curricula, methods and materials for the instruction of visual art in the elementary school. <i>Prerequisite: Junior status and PEDG 3310.</i>	3:3:0
3375	Sculpture II Application of the principles of sculpture through experiment in clay, plaster and various materials. <i>Prerequisite: ARTS 2326.</i>	3:3:3
3376	Ceramics I Investigation and practice in ceramic processes: forming and firing techniques. May be repeated for credit. <i>Prerequisite: ARTS 1312.</i>	3:3:3
3386	Ceramics II Opportunities for specialization in ceramic processes. May be repeated for credit. <i>Prerequisite: ARTS 3376.</i>	3:3:3
4303	Color Photography An introduction to color printing techniques. <i>Prerequisite: ARTS 2379.</i>	3:3:3
4315	Drawing VII Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: ARTS 3325.</i>	3:3:3
4316	Painting IV Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: ARTS 3327.</i>	3:3:3
4325	Drawing VIII A continuation of Drawing VII. May be repeated for credit. <i>Prerequisite: ARTS 4315.</i>	3:3:3
4326	Painting V A continuation of Painting IV. May be repeated for credit. <i>Prerequisite: ARTS 4316.</i>	3:3:3
4328	19th Century Symbolist Art A study of the Symbolist Movement in European art from 1885-1910. <i>Prerequisite: ARTS 4358.</i>	3:3:0
4331	Alternative Fiber Processes Investigation of non-loom fiber techniques; printing, dyeing, and other fiber processes. <i>Prerequisite: ARTS 1311.</i>	3:3:3
4336	Professional Practices A study of the practical aspects of the art profession with emphasis on health hazards, business procedures, and art law.	3:3:0
4338	Renaissance Art A study of Renaissance art in Europe from the 14th through the 16th centuries. <i>Prerequisite: ARTS 4358.</i>	3:3:0
4341	Advanced Fiber Crafts Advanced work with woven and non-loom fiber processes. <i>Prerequisite: ARTS 3335 or ARTS 4331.</i>	3:3:3

4343	Computers in Art I Introduction to computers as a creative tool. Language and logic. Development of image making techniques, data handling and design. <i>Prerequisite: ARTS 1317, ARTS 1311, and ARTS 2311.</i>	3:3:3
4348	19th Century European Art A study of the foundation of abstractionism from Neo-Classicism through Post-Impressionism. <i>Prerequisite: ARTS 4358.</i>	3:3:0
4353	Computers in Art II Advanced topics in computer image making. Language and logic. Development of animation, sound and visual communications techniques. May be repeated for credit. <i>Prerequisite: ARTS 4343.</i>	3:3:3
4355	Printmaking III Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: ARTS 3365.</i>	3:3:3
4358	American Art and Modernism A study of the development of modernism in the United States of America from the early nineteenth century to the present. <i>Prerequisite: ARTS 1304.</i>	3:3:0
4363	Computers in Art III Advanced topics in computer-aided design. Student selected problems working with specific areas of computer imaging. Work done on a contract basis with specified objectives and tangible results. May be repeated for credit. <i>Prerequisite: ARTS 4343.</i>	3:3:3
4368	Contemporary Art A historical and critical analysis of painting from 1900 to the present. <i>Prerequisite: ARTS 4358.</i>	3:3:0
4371	Elementary Visual Art This course is designed to prepare students to teach, as art specialists, in the elementary school. It is one of two art methods classes required for all level art certification and includes both theory and practice of art education at the primary level.	3:3:0
4373	Field Study in Visual Design Elective course providing familiarization with the overall art field through actual experience. Time to be arranged. Permission of the instructor required. May be repeated for credit.	3:3:3
4375	Sculpture III Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: ARTS 3375.</i>	3:3:3
4376	Ceramics III Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: ARTS 3386.</i>	3:3:3
4378	Primitive Art A study of pre-historic and contemporary tribal art.	3:3:0
4381	Advanced Studies in Visual Art Curricula, methods, and materials for instruction of visual art in the secondary school.	3:3:0
4388	Modern Architecture and Sculpture The development and evolution of modern architecture and sculpture from the late 19th century to the present. <i>Prerequisite: ARTS 4358.</i>	3:3:0
4391	Directed Individual Study Research in a specialized area of art history. May be repeated for credit. <i>Prerequisite: Permission of instructor.</i>	3:3:0
4393	Directed Individual Study Study of specialized area within commercial art field. May be repeated for credit. <i>Prerequisite: Permission of instructor.</i>	3:3:3
4395	Directed Individual Study Study of specialized area within fine arts field or photography. May be repeated for credit. <i>Prerequisite: Permission of instructor.</i>	3:3:3
4398	History of Photography The development and evolution of photography from its invention in 1839 to the present.	3:3:0
4399	Thesis Student-selected problem encompassing an area of emphasis with suitable research, production, written support and oral presentation to a faculty committee. This course is a degree completion requirement for those seeking a Bachelor of Fine Arts degree.	3:3:3

Department of Communication

Department Chair: W. Patrick Harrigan

201 Communication, Phone 880-8153

Professors: Baker, Brentlinger, Harrigan

Associate Professors: Elliot, Roth

Assistant Professors: Michalski, Stanley

Instructors: Perkins, Sanford, Warren

The Department of Communication offers the Bachelor of Science degree in Communication for students interested in corporate communication or public communication and in the fields of journalism or media.

Teacher certification plans are offered in conjunction with the major study of public communication (for the teaching field of speech) and of journalism. Students interested in details concerning requirements for teacher certification and the professional education course requirements should consult the College of Education and Human Development section of this catalog.

A new student beginning study at Lamar University must meet all admission requirements of the University (see section on ADMISSIONS in this catalog). Transfer students or students who wish to enter Department of Communication programs by change of major must meet the same requirements or hold a minimum grade point average of 2.00 or better. Grades of "D" are not accepted as course completion for required classes in departmental majors, nor are they acceptable as course completions for classes to be used as professional electives by student majors within the department.

Programs of Study

All majors in the department must complete the basic core curriculum requirements of Lamar University as their academic foundation course work. The student's advisor will provide direction to the student concerning departmental requirements within the core curriculum when course choices are available to meet the university's core curriculum requirements. PSYC 2301 should be taken to meet the social science requirement.

Bachelor's Degree in Communication

The bachelor's degree program in communication prepares students for careers in advertising, broadcasting, corporate communication, film, journalism or public relations and requires each student to complete a REQUIRED departmental core curriculum of ten courses (30 hours). Students will complete additional classes in communication for their specific career interests.

Required classes for the departmental core curriculum include COMM 1370, 1307, 1373, 1318, 4340; nine hours of Communication theory courses,* and six hours of Communication performance courses.*

Students interested in the career fields noted above should consult a faculty advisor for specific professional electives. This program serves as an appropriate curriculum for those who wish a career as a communication practitioner or for those that want to enter law school, a seminary or to pursue a graduate degree.

**See a Communication Department advisor for information about these courses.*

Suggested Course Sequence for the Bachelor of Science Degree in Communication (assumes TASP certified)

Year One

First Semester		Second Semester	
ENGL 1301, 1360.....	3	ENGL 1302, 1374 (media students)	3
MATH 1314	3	MATH	3
PHIL 1370	3	PSYC 2301	3
COMM 1370	3	COMM 1307	3
COMM 1315	3	COMM 1373	3
	15		15

Year Two

First Semester		Second Semester	
Engl Lit.....	3	POLS 2302	3
POLS 2301	3	COMM 1318	3
Fine Arts	3	Comm Performance*	3
Comm Performance*	3	Professional Elec	3
Professional Elec	3	General Elec	3
PEGA	1		
	16		15

Year Three

First Semester		Second Semester	
HIST 1301	3	HIST 1302	3
Lab Science	4	Lab Science	4
Comm Theory*	3	Comm Theory*	3
Professional Elec	3	Professional Elec	3
General Elec	3	General Elec	3
	16		16

Year Four

First Year		Second Semester	
COMM 4340	3	Comm Theory*	3
Professional Elec	3	Professional Elec	3
General Elec	10	General Elec	9
	16		15

*See Department Advisor

Communication Classes (COMM)

1307 Introduction to Mass Communication	3:3:0
This course focuses upon the nature of electronic information processes and their impact upon the emerging global culture. Introduces the concept of psychological/mythic meaning in media and facilitates the "reading" of film and television images on both semiotic and symbolic levels.	
1315 Public Speaking	3:3:0
Principles and practice of public speaking. (Transfers as TCCN SPCH 1315)	
1318 Interpersonal Communication	3:3:0
Principles and practices of interpersonal communication in various settings. (Transfers as TCCN SPCH 1318)	
1360 Honors Public Speaking	3:3:0
Principles and practices of public speaking, designed especially for honors students. Satisfies communication requirement in the Core Curriculum.	
<i>Prerequisite: Membership in the Honors Program or approval of Honors Program director.</i>	
1370 Communication Studies	3:3:0
An introductory survey of the field. Includes major methodologies and theories as well as an historical perspective. Career options also are explored. Majors should complete this course during their freshman year.	

1373	Media Writing Covers all styles of writing for A/V: audio, television, film documentary, advertising, news, etc. <i>Prerequisite: ENGL 1301 with "C" or better. Proficiency in typewriting is required or instructor's permission.</i>	3:1:4
1375	Film Appreciation A survey of the field of film with emphasis on current trends in cinema, past and present directors, and the historical development of film.	3:3:0
2303	Audio/Radio Production Principles and practice of professional audio recording and editing.	3:1:4
2311	News Gathering and Writing A basic course in gathering material and writing news stories for publication. Proficiency in typewriting is required. <i>Prerequisite: COMM 1373 or instructor's permission.</i>	3:2:3
2335	Argumentation & Critical Thinking A study of evidence and reasoning and a critique of them as reflected in current public affairs.	3:3:0
2341	Performance Studies Instruction and practice in the principles of speech applied to performance in the interpretation of prose and poetry. <i>Prerequisite: COMM 1315, three hours of sophomore English literature, or instructor's permission,</i>	3:3:0
2371	Advertising Principles & Practices An overview of the field of advertising, examines the economic, social, legal, ethical and creative nature of advertising. <i>Prerequisite: COMM 1373 or instructor's permission</i>	3:2:2
2372	Editing and Copyreading The development and use of printing, type recognition, type harmony, design, preparing editorial material, correcting copy. <i>Prerequisite: COMM 1373 or instructor's permission.</i>	3:2:3
2373	Advanced Public Speaking An in-depth study in the principles and practices of public presentations. <i>Recommended: Students should have completed COMM 1315 or have had significant speaking experience in high school (e.g. participated in UIL speech events).</i>	3:3:0
2374	Introduction to Broadcasting A general introduction to the field of broadcasting including a study of station and network organization and control by law and societal forces. <i>Prerequisite: COMM 1373, COMM 2303 or instructor's permission.</i>	3:2:3
2375	TV & Film Genre Genre presents formulaic type of entertainment (e.g., classic science fiction, WWII combat, spy thrillers, etc.) recognizable to audiences by its recurring images and ideas. Analysis of TV shows and films focus on how each genre (concept) relates to texts we see (perceptions) and to the universal human experience. May be repeated for a total of six hours.	3:3:0
2376	Film Production I An introductory course focusing on the theory and practice of film production including script writing, shooting and editing. <i>Prerequisite: COMM 1373 or instructor's permission.</i>	3:1:4
3130	Communication Laboratory Laboratory experience at the University Press, KVLU-FM, or LUTV. May be repeated for a total of three hours credit. <i>Prerequisite: COMM 1370, 1307 and 1373 or 2374, or instructor's permission.</i>	1:0:3
3234	Practicum Laboratory experience under supervision of a professional in the field of student career interest. May be repeated for a total of six hours credit. <i>Prerequisite: Junior standing with a 3.0 GPA or instructor's permission.</i>	2:0:4
3301	Intercultural Communication An examination of communication exchange between individuals from different cultures. <i>Prerequisite: COMM 1318 or instructor's permission.</i>	3:3:0
3310	Business & Professional Speech Application of the fundamentals of speech production to the needs of the professional person. For non-communication students.	3:3:0
3320	Communicating in the Family An examination of the ways in which family members communicate, make decisions, settle conflicts, and learn to relate to one another in contemporary American culture.	3:3:0

- 3330 Advanced Journalistic Writing** 3:2:3
Writing focused on skills required for magazine and newspaper feature writing and editorial commentary.
Prerequisite: COMM 2311 or instructor's permission.
- 3340 Interviewing** 3:3:0
Theory and practice in the several types of interviews current in the United States including information, employment and persuasive.
- 3360 Public Relations** 3:3:0
Theory, principles and practice of public relations.
Prerequisite: COMM 1318, 3361 and sophomore standing, or instructor's permission.
- 3361 Desktop Publishing** 3:2:2
Focuses on the use of computer technology to set type, design pages, and create camera-ready copy for newsletters, brochure, advertisements, and other publications.
Prerequisite: COMM 1373 or instructor's permission.
- 3365 Corporate Video Production** 3:1:4
Video production in the corporate setting emphasizing the production of corporate informational videos and training tapes.
Prerequisite: COMM 1373 junior standing or instructor's permission
- 3370 Psychology of TV and Film** 3:3:0
Analysis of excerpts from popular TV shows and films probe how fictional characters and situations exemplify the significance of the unconscious to individual psychological growth and interpersonal relationships, using the depth psychology of Freud, Jung, Rank, and Von Franz.
- 3375 Film Theory** 3:3:0
Storyboarding and lecture analyze classic theories by Balazs, Arnheim, Bazin, Kracauer, Kuleshov, Pudovkin, and Eisenstein. Film and TV examples include *Citizen Kane*, *Metropolis*, Beatles movies, *Miami Vice*, and *Star Trek*.
- 3376 Film Production II** 3:1:4
Film production course focusing on enhancing skills learned in Film Production I and which introduces students to 16mm sync sound production techniques.
Prerequisite: COMM 2376 or instructor's permission
- 3377 American Cinema** 3:3:0
A study of the development of American cinema, including film genres and representative American directors.
- 3380 Television Production** 3:1:4
Activities in writing, acting, directing, producing, announcing and engineering various types of television production.
Prerequisite: COMM 2303 and 2374, or instructor's permission.
- 3381 Photojournalism** 3:2:3
Principles of photography applied to the specific area of photojournalism. Each student must have access to a 35mm adjustable camera.
Prerequisite: COMM 2311, ARTS 2356, or instructor's permission.
- 3383 Television Field Production** 3:1:4
Principles and practices of editing and post production.
Prerequisite: COMM 1373, 2303 and 2374, or instructor's permission.
- 3385 TV Writing & Performing** 3:1:4
Familiarization with the overall field of broadcast writing, including a focus on producing individual reports, scripts, and entire newscasts for radio and television.
Prerequisite: COMM 1373, 2374 or instructor's permission.
- 3390 Conflict Management and Small Group Communication** 3:3:0
Theory and practice of small group communication and conflict management processes. Emphasis in leadership, conflict management, group problem solving, productivity, and conference planning in corporate and public settings.
Prerequisite: COMM 1318, sophomore standing, or instructor's permission.
- 4300 Communication Problems and Projects** 3:A:A
Problems and topics are analyzed through discussion and research. An extensive research project and report is required. Course may be repeated.
Prerequisite: COMM 1370, 1307, and junior standing and instructor's permission.
- 4301 Rhetorical Theory and Criticism** 3:3:0
Reading and detailed study of the theories of principal rhetoricians from ancient to modern times.
Prerequisite: Junior standing or instructor's permission.

- 4310 Communication Law** 3:3:0
An introduction to the legal issues surrounding and affecting communication. Focus is upon Constitutional Bill of Rights conflicts which generate such issues as libel, privacy, fair trial/free press, obscenity, copyright, etc.
Prerequisite: junior standing, or instructor's permission.
- 4320 Nonverbal Communication** 3:3:0
Theory, research, analysis and practice in nonverbal communication.
Prerequisite: COMM 1318 and junior standing, or instructor's permission.
- 4330 Ethics, Media and Society** 3:3:0
Foundations of ethics as a philosophical discipline and integration of moral reasoning to critical issues in communication and mass media.
Prerequisite: junior standing, or instructor's permission
- 4340 Organizational Communication** 3:3:0
An in-depth study of the dominant theories, principles and practices of communication within the organization through an examination of recent qualitative and quantitative research.
Prerequisite: COMM 1318, 1373 and senior standing, or instructor's permission.
- 4341 Human Resource Interviewing** 3:3:0
A study of theory, principles and practices of corporate interviewing, including employment, appraisal, correction and negotiation interviews.
Prerequisite: COMM 1318, 1373, 3340, and junior standing, or instructor's permission.
- 4342 Communication Management** 3:3:0
An investigation of the principles and practices employed by communication managers.
- 4350 Corporate Training and Development** 3:3:0
A study of learning theories, instructional design, technologies and organizational development practices for application in corporate setting.
Prerequisite: COMM 1318, 1373, 2373 or 3340, and junior standing, or instructor's permission.
- 4360 Senior Seminar: Research Methods in Communication** 3:3:A
An introduction to quantitative and qualitative research methods specifically applied to communication questions.
Prerequisite: Completion of at least 24 hours of COMM courses, or instructor's permission
- 4361 Communication Internship** 3:3:0
Practical experience in a "real world" industry setting. May be repeated for a total of six hours credit.
Prerequisite: Completion of at least 30 hours of COMM courses with a 3.0 average, or instructor's permission.
- 4370 Issues Management Seminar** 3:3:0
An in-depth examination of current theory and practice in corporate issues management.
Prerequisite: COMM 3360, 4310 or 4383, and junior standing, or instructor's permission.
- 4380 Advertising Campaign Strategies** 3:2:2
Basic principles of research, planning, budgeting, and presentation for advertising campaigns.
Prerequisite: COMM 2371 or instructor's permission.
- 4381 Political Communication** 3:3:0
The nature of communication in politics. Particularly, political campaign management, the mediation of candidate image, and media in the American political system.
Prerequisite: COMM 1318, 1373 and junior standing, or instructor's permission.
- 4383 Persuasion** 3:3:0
The psychological and emotional principles involved in influencing individuals and groups. An analysis and practice with the speech devices and techniques in effectively motivating audience reaction.
Prerequisite: COMM 1318, 1373 and junior standing, or instructor's permission.
- 4390 Communication Theory** 3:3:0
An in-depth look at the dominant theories used in the study of human communication.
Prerequisite: COMM 1318, 1373 and junior standing, or instructor's permission.
- 4395 Studies in Communication** 3:3:3
Selected topics in major areas of communication. Course may be repeated for a maximum of six semester hours when topic varies.
Prerequisite: Junior standing or instructor's permission.
- 4396 Studies in Media** 3:1:4
Selected topics in major areas of media production (journalism, radio, television, film). May be repeated when topic varies.
Prerequisite: Junior standing or instructor's permission.
- 4397 Media Projects** 3:A:A
Projects in the areas of journalism, radio, television and film are analyzed through discussion and research. Student will then produce an original film, radio or television show or journalism project.
Prerequisite: Junior standing or instructor's permission.

Department of Communication Disorders and Deaf Education

Department Chair: Gabriel A. Martin

115 Speech-Hearing and Deafness Center
Phone 880-8175

Professors: Andrews, Martin

Associate Professor: W. Harn

Assistant Professors: Barker, Friend, Gentry, M. Harn, Maroonroge, Z. Smith

Instructors: Cancel, Mantie-Kozlowski, A. Smith, Sullivan

The Department of Communication Disorders and Deaf Education (CMDS) supports instruction, research, and service, the primary mission areas of Lamar University, through the degree programs offered. The department offers a Bachelor of Science degree in Communication Disorders for students interested in pursuing work in the fields of audiology, deaf education, and speech-language pathology. The undergraduate major is a multi-disciplinary pre-professional program that provides a foundation for a graduate specialization, state license, and/or national certification within the professional fields of audiology, deaf education, and speech-language pathology. This program of study is accredited by the American Speech-Language-Hearing Association and by the Council on Education of the Deaf. Completion of the master's degree is mandated by Texas law for professional employment in speech-language pathology and strongly advised by our departmental faculty in deaf education. The degree for professional practice is now the Doctor of Audiology (Au.D.) (See the Graduate Catalog for requirements).

Teacher certification plans are offered in conjunction with the major study of Deaf Education. Details concerning requirements for teacher certification and the professional education course requirements should be obtained from an undergraduate advisor in Deaf Education and/or from the College of Education and Human Development section of this catalog.

A new student initiating study at Lamar University must meet all admission requirements of the University (See "Admissions" this catalog). Transfer students or students who wish to enter the Department of Communication Disorders and Deaf Education programs by change of major must meet admission requirements or have a minimum grade point average of 2.50 or better. Grades of "D" are not acceptable as course completion for required classes in departmental majors, nor are they acceptable as course completion for classes to be used as professional electives by student majors within the department.

Programs of Study

All majors in the department must complete the basic Core Curriculum requirements of Lamar University as their academic foundation course work. Faculty advisors will provide direction to the student concerning departmental requirements within the Core Curriculum when course choices are available to meet the University's Core Curriculum requirements. The Department of Communication Disorders and Deaf Education **requires all transfer, freshmen-level, and senior-level students to see a faculty advisor within the department. Further, this Department strongly encourages all students to seek academic advisement from the faculty for efficient matriculation through the undergraduate program.** Advisors may be seen during the university posted time for each semester or by appointment. Required courses are listed with more information about each.

Bachelor's Degree in Communication Disorders

The bachelor's degree program in Communication Disorders preparing students for graduate specialization in Audiology, Deaf Education, and Speech-Language Pathology requires each student to complete a REQUIRED departmental core of seven courses. In addition, each student will complete five advanced classes for the student's specific career interests for a total of 36 hours.

Required classes for the departmental core curriculum include CMDS 1374, 1375, 2371, 2372, 2373, 2374, 3302, and five of the following: CMDS 1377, 2376, 3301, 3304, 3306, 3307, 4301, 4302, 4303, 4304, 4307, 4308, 4310, 4327, 4350*. A special note: CMDS 2375, American Sign Language I, is taken by communication disorders majors to satisfy the communication section of the University Core Curriculum.

* CMDS 4350 may be taken with faculty advisor and department chair approval.

Communication Disorders (CMDS)

1371	Introduction to Speech, Hearing and Language Disorders	3:3:0
	An overview of the professions of audiology, deaf education, and speech-language pathology. A course for NON-MAJORS.	
1372	Phonetics	3:3:0
	Knowledge of American English sound system and syllable structure including proficiency in using the International Phonetic Alphabet for phonetic transcription.	
1373	Theoretical Bases of Language	3:3:0
	The theoretical constructs of language including the analysis of content (semantics), form (syntax), morphology and use (pragmatics of language in normal communication).	
1374	Introduction to Deaf Studies	3:3:0
	Historical and current trends about Deaf community, their culture, and education of deaf youth.	
1375	Language Acquisition	3:3:0
	The study of normal language development and its changes with maturation.	
1376	Fingerspelling and Numbers in ASL	3:3:0
	The study of and number concepts in American Sign Language used in the Deaf community.	
1377*	Introduction to Deaf Education	3:3:0
	A survey of the history of deaf education in the U.S. and around the world today including a description of major contributors of educational pedagogy.	
2371	Hearing Anatomy	3:3:0
	The anatomy and physiology of the peripheral auditory mechanism. Also included are the central auditory pathways.	
2372	Hearing Science	3:3:0
	Basic physics of sound, instrumentation and performance related to audiological principles. <i>Prerequisite: CMDS 2371</i>	
2373	Speech Anatomy	3:3:0
	The anatomy and physiology of the speech mechanism. Includes scientific variables of speech and voice and the perceptual phenomena that result.	
2374	Speech Science	3:3:0
	Basic physics of sound, instrumentation and performance in the speech sciences.	
2375	American Sign Language I	3:3:0
	Introduction to American Sign Language and Deaf Culture. (Transfers as TCCN SNGL 1301)	
2376	American Sign Language II	3:3:0
	This is an intermediate course in American Sign Language and Deaf Culture. (Transfers as TCCN SNGL 1302) <i>Prerequisite: CMDS 2375 or Department Chair approval.</i>	
3301	Language and Phonological Disorders	3:3:0
	An introduction to articulation and language disorders, their etiologies and therapy programs. <i>Prerequisites: CMDS 1372, 1373, 1375</i>	
3302	Introduction to Audiology	3:3:0
	An overview of the professional field of Audiology, an introduction to the terminology, testing techniques and procedures of the evaluation of the patient; interpretation of evaluation data; and application of information to the habilitation program of the patient. <i>Prerequisites: CMDS 2371, 2372</i>	

3304	Voice and Fluency Disorders An introduction to fluency, voice and organic disorders in speech pathology, their etiology and therapy programs. <i>Prerequisites: CMDS 2373, 2374</i>	3:3:0
3306	American Sign Language III Advanced American Sign Language. <i>Prerequisite: CMDS 2376 or Department Chair approval.</i>	3:3:0
3307*	Introduction to ASL Literature, Visual and Media Arts A survey of Deaf Culture themes expressed in short stories, poetry, drama, and humor as well as in the visual arts. <i>Prerequisites: CMDS 1374, 1377, 2375, 2376.</i>	3:3:0
4301	Organically Based Communication Disorders An overview of speech, language, and swallowing disorders with organic etiologies. <i>Prerequisite: CMDS 3304</i>	3:3:0
4302	Advanced Audiology Hearing evaluation procedures, clinical evaluation, techniques and instrumentation. <i>Prerequisites: CMDS 3302</i>	3:3:0
4303	Clinical Processes An overview of clinical procedures and initial interaction with clinical patients. <i>Prerequisite: CMDS 3301, 3304</i>	3:3:0
4304	Neurology The human nervous system with particular emphasis on neuronal structures and pathways related to communication and its disorders. <i>Prerequisites: CMDS 2371, 2372, 2373, 2374</i>	3:3:0
4306	Literacy and Deafness Theoretical acquisition of reading and writing for deaf/Hard of hearing children. <i>Prerequisite: CMDS 1374</i>	3:3:0
4307	American Sign Language IV Linguistics of ASL and advanced expressive and receptive skill development in ASL. <i>Prerequisites: CMDS 2375, 2376 and 3306 or Department Chair approval</i>	3:3:0
4326	Instructional Design of the Deaf Classroom Cognitive, linguistic and social development of deaf individuals from infancy to adulthood and the impact on the classroom. <i>Prerequisites: CMDS 1374</i>	3:3:0
4308*	Teaching ASL as a Second Language, Methodologies A survey of methods in teaching American Sign Language (ASL) as a second language. <i>Prerequisites: 1374, 1377, 2375, 2376, 3306, 3307, or by faculty and department chair approval.</i>	3:3:0
4310*	Sign Languages and Sign Codes A survey of the various forms of manual communication such as ASL, Contact Signing, Signed English, Signing Exact English, Seeing Essential English, Fingerspelling, and other manually coded English forms. <i>Prerequisites: 1376, 2375, 2376, 3306, 4307 or by faculty and department chair approval.</i>	3:3:0
4327	Aural Rehabilitation Explores the area of assistive listening devices and communication strategies for individuals with hearing-impairments. <i>Prerequisites: CMDS 2371, 2372, 3302 and 4302</i>	3:3:0
4350	Problems and Projects Special project course taken by supervising faculty and Department Chair approval.	3:A:0

* Pending approval by the Texas Higher Education Coordinating Board

Department of Music, Theatre and Dance

Department Chair: L. Randolph Babin

106 Music Building, Phone 880-8144

Professors: Babin, Culbertson, Dyess, Ellis, Johnson, Mathis, Ornelas, Placette, Schultz, Simmons

Associate Professors: Gilman, Lihs

Assistant Professors: Draper, García-Novelli, Hines, Rissman, Weiss, Wheatley, Wisor

Instructor: Howes

Lecturer: Peirce

Adjunct Instructors: Arrington, Austin-Goza, Ball, Cokinos, Collier, Graham, Greschner, Griner, Hale, Parks, Schwarzlose, Wadenpfehl-Gay, Wixson

Academic Advisor: Black

The music unit is an accredited institutional member of the National Association of Schools of Music. Four undergraduate degrees offered are 1) Bachelor of Music in Performance, 2) Bachelor of Music in Composition, 3) Bachelor of Music (Teacher Certification), and 4) Bachelor of Arts in Music. The Bachelor of Music (Teacher Certification) offers specialization in either Band, Choir or Orchestra. Two graduate degrees offered are 1) Master of Music in Performance and 2) Master of Music Education.

The Theatre unit is an accredited member of the Texas Educational Theatre Association. Four undergraduate degrees are offered: 1) Bachelor of Arts in Theatre, 2) Bachelor of Arts in Theatre (leading to Teacher Certification), 3) Bachelor of Science in Theatre and 4) Bachelor of Science in Theatre (leading to Teacher Certification). One graduate degree is offered: Master of Science in Theatre.

The Dance unit offers three undergraduate degrees: 1) Bachelor of Science in Dance (leading to Teacher certification), 2) Bachelor of Science in Dance and 3) Bachelor of Art in Dance.

Requirements for Music Majors

1. Meet the basic requirements for all degree programs.
 2. Complete one of the programs of study listed below.
 3. Complete seven semesters (six for BA in Music) of MUSI 1170 (Recital Attendance) to be approved for graduation.
 4. A music course with a grade of "D" will not apply toward graduation.
 5. All students must continue to take secondary piano for as many consecutive long semesters as are required for the completion of the piano proficiency exam.
 6. Piano majors will take secondary voice or secondary instruments, whichever applies to their intended course of study (vocal or instrumental), for as many consecutive long semesters as are required for the completion of the vocal or instrumental proficiency exam.
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Audition Procedure

To be accepted as a music major at Lamar University, students, both new and transfer, must pass an audition in their major performance area (applied music). Audition dates may be obtained by contacting the Lamar University Department of Music, Theatre and Dance. Special audition dates can be arranged if necessary.

Theory Placement Examination

All music major applicants will be given a Theory Placement Examination to determine their level of theoretical knowledge. The examination will include key signatures, triads, treble and bass clefs, musical terms, and ear training.

Requirements for Music Minors

Core Curriculum Requirement (3 hours):

MUSI 1306: All students seeking a minor in music will be required to take MUSI 1306 (Introduction to Music) as the core curriculum requirement in fine arts.

Music Minor Requirements (22 hours):

Lower Level	Upper Level
MUTY 1311, 13126	MUSI 3310, 3370, or 33803
MUAP 12XX (2 courses)4	MUSI 3350 or 33603
MULB 117X (2 courses)2	Upper level music elective3
MUSI 1170NG	
MUSI 11701	

Applied Music Requirements

General Requirements

Music majors must be enrolled in applied music each long semester until the applied music requirement is met. The required sequence of courses includes a minimum of four semesters of lower-level (1200 series) courses in applied music.

Students in the teacher certification program must complete three additional semesters of upper-level (3200 series) applied music courses. Students in the performance program must complete four semesters of upper-level (3400 series) applied music courses.

Completion of the applied music requirement signifies the attainment of a given level of artistic performance rather than the completion of a specific number of semester hours of credit. A student may, at the discretion of the applied music faculty, be required to repeat any course in the applied music sequence; in such a case, the course may be repeated for credit. The applied music requirement is not satisfied until approval of the faculty is obtained.

Any student registered for an applied music course (except 1101 and 1181) will be required to perform in a major ensemble and pass a jury examination each long semester. With permission from the private instructor, a student may be exempt from jury examination in the semester during which the Senior Recital is to be performed.

Recital Performance Requirements

Bachelor of Music (Teacher Certification): Each Bachelor of Music (leading to Teacher Certification) major will perform a senior recital 30 minutes in length. The recital may be performed jointly with another student and will take place during the senior year. The recital can be scheduled during the regular recital period or as an afternoon recital. The student must be enrolled in applied music during the semester in which the recital is to be performed. **Bachelor of Music (in Performance):** 1) Upon completion of four semesters of lower-level applied music, the student must pass a performance jury examination to be eligible to advance to upper-level (3400 series) applied music courses; 2) during the second semester of upper-level instruction, the performance major must play a junior audition recital. This recital must be 30 minutes in length and may be given jointly with another student; however, each performer must complete his or her portion of the recital in succession. The recital can be given during the regularly scheduled recital period or as an afternoon recital. A satisfactory Junior Audition Recital is a prerequisite for proceeding to a Senior Performance Recital; 3) during the fourth semester of upper-level study, a Senior Performance Recital will be given. This recital must be 60 minutes in length and may be scheduled during the regular recital time, at the afternoon recital time, or at an approved evening time. **Recital requirements for Bachelor of Music in Composition:** Junior year: Public presentation of at least one original composition for any medium. Minimum length: 5 minutes. The student is responsible for recruiting and rehearsing the performer(s). Senior year: Presentation of a recital of original compositions. Generally the requirement is for at least four compositions, for differing media, although if one or more compositions are unusually long, exceptions may be made. Minimum length: 25 minutes of music (excluding time between movements, set-up time between pieces, etc.). The student is responsible for recruiting and rehearsing the performers, as well as coordinating the performance. Part of the grade for the recital will be dependent on the success of these efforts. **General policies for performance major auditions and recitals:** 1) A performance major MUST make formal application for admission to upper-level applied music, junior audition recital and senior recital at least two weeks prior to the jury or recital. The application forms are available from the chair of the music department and should be submitted to the applied teacher; 2) to advance to upper-level applied music, the performance major must have two-thirds approval of the sophomore jury panel; 3) junior audition recitals and senior recitals will be graded on a pass/fail basis by a faculty panel of three, chosen by the chair of the music department and the private teacher. Two-thirds approval of the faculty panel is necessary to pass. The student must be enrolled in applied music during the semester in which the recital is to be performed.

Ensemble Participation

Participation in a major ensemble is required of full-time music students each long semester, except when student teaching. Major ensembles are as follows:

- 1) For vocal and keyboard (vocal emphasis) students: MULB 1170 (A Cappella Choir) or MULB 1172 (Grand Choir) (Placement by Audition)
- 2) For wind, keyboard (instrumental emphasis) and percussion students: MULB 1175 (Marching Band) and MULB 1177 (Symphonic Band)
- 3) For string students: MULB 1173 (Orchestra)

Bachelor of Music (model for all performance and composition degrees)

Suggested Program of Study

First Year	Second Year
MUAP applied major (2 courses)4	MUAP applied major (2 courses)4
MUAP Secondary Instrument.....1	MULB Major Ensemble (2 courses)2
MULB Major Ensemble (2 courses)2	MULB 1174 (2 courses)2
MULB 1174 (2 courses) *2	MUTY 2311-23126
MUTY 1311-13126	MULT 32202
MULT 12082	ENGL Lit3
MUSI 11701†	MUSI 23773
ENGL Comp6	Science8
PHIL 13703	American History6
Math6	
PEGA1	
34	36
Third Year	Fourth Year
MUAP applied major (2 courses)8	MUAP applied major (2 courses)8
MULB Major Ensemble (2 courses)2	MULB Major Ensemble (2 courses)2
MULB 1174 (2 courses)2	MULB 1174 (2 courses)2
MUTY 3210-32204	MUTY 4210-42204
MULT 3330-3340.....6	MULB 1157 or 41302††
MUSI 3350 or 33603***	POLS6
MUSI 3370 or 33803***	Social Science3
MULB 1157 or 41302††	Modern Language (vocal majors only)3**
COMM 1315 or Modern Language3**	
33	27-30

* Comp majors take major instrument Rep and Ped in first year.

** Vocal majors take modern language. Two different languages to be selected from German, French or Spanish.

*** Students will take the course appropriate to their area of specialization.

† Degree credit requires seven semesters of satisfactory completion of MUSI 1170.

†† Vocal majors are required to take four semesters of MULB 1157 - Opera, to include participation in two productions; Instrumental majors will take four semesters of MULB 4130 - Chamber music ensemble courses.

Bachelor of Music (Teacher Certification) † (Instrumental Concentration)

First Year		Second Year	
MUAP applied major (2 courses)	4	MUAP applied major (2 courses)	4
MUSI 1181	1	MULB Major Ensemble (2 courses)	2
MULB Major Ensemble (2 courses)	2	MUTY 2311-2312	6
MUTY 1311, 1312	6	MULT 3220	2
MULT 1208	2	MUSI 3350	3
ENGL Comp	6	ENGL Lit	3
PHIL 1370	3	Science	8
MATH	6	Am Hist	6
MUSI 1170*	1	POLS 2301	3
	<u>31</u>		<u>37</u>
Third Year		Fourth Year	
MUAP applied major (2 courses)	4	MUAP applied major	2
MULB Major Ensemble (2 courses)	2	MULB Major Ensemble	1
MUTY 4220	2	MUTY 4210	2
MULT 3330-3340	6	MUSI 2377	3
MUSI 3310	3	PEDG 3380	3
MUSI 3110-3120	2	READ 3326	3
MUSI 3130-3140**	2	PEDG 4930	9
MUSI 3150	1	COMM 1315 or Modern Language	3
MUSI 3360	3	MUSI 3377 (Band Majors only)	3
MUSI 3380	3	PEGA (String Majors only)	1
MUSI 4110-4120	2		
PEDG 3310-3320	6		
POLS 2302	3		
	<u>39</u>		<u>27-29</u>

* Degree credit requires seven semesters of satisfactory completion of MUSI 1170.

† For details concerning requirements for teacher certification and information on professional education courses, consult the College of Education and Human Development section in this bulletin.

**String majors take the course that is the opposite of their major instrument.

Bachelor of Music (Teacher Certification)[†] (Choral Concentration)

First Year	
MUAP applied major (2 courses)	4
MUSI 1181	1**
MULB Major Ensemble (2 courses)	2
MULB Opera (production)	1
MUTY 1311-1312	6
MULT 1208	2
ENGL Comp	6
PHIL 1370	3
MATH	6
PEGA	1
MUSI 1170*	1
	33

Third Year	
MUAP applied major (2 courses)	4
MULB Major Ensemble (2 courses)	2
MUTY 4220	2
MULT 3330-3340	6
MUSI 3310-3320	6
MUSI 3350	3
MUSI 3370	3
PEDG 3310-3320	6
POLS 2302	3
	35

Second Year	
MUAP applied major (2 courses)	4
MULB Major Ensemble (2 courses)	2
MUTY 2311-2312	6
MULT 3220	2
MUSI 3360	3
ENGL Lit	3
Lab Sci	8
Am Hist	6
POLS 2301	3
	37

Fourth Year	
MUAP applied major	2
MULB Major Ensemble	1
MUTY 4210	2
MULB Opera (production)	1
MUSI 2377	3
READ 3326	3
PEDG 3380	3
PEDG 4930	9
COMM 1315 or Modern Language	3
	27

* Degree credit requires seven semesters of satisfactory completion of MUSI 1170.

** Piano majors will substitute secondary voice for MULB 1176 and must take voice for as many consecutive long semesters as necessary to pass the vocal proficiency exam.

† For details concerning requirements for teacher certification and information on professional education courses, consult the College of Education and Human Development section in this bulletin.

Bachelor of Arts in Music

First Year	
MUAP Applied Major	4
MUAP Secondary Instrument	1*
MULB Major Ensemble	2
MUTY 1311, 1312	6
MULT 1208	2
MUSI 1170*	1
ENGL Comp	6
PHIL 1370	3
MATH	6
PEGA	1
	32

Third Year	
MUAP Applied Major	4
MULB Major Ensemble	2
MUTY 3210, 4210, or 4220	2
MULT 3330, 3340	6
Minor (3 hours must be upper level)	6
Modern Language 2312	3
American History	6
	29

Second Year	
MUAP Applied Major	4
MULB Major Ensemble	2
MUTY 2311, 2312	6
MULT 3220	2
Engl Lit	6
Science	8
Minor	6
	34

Fourth Year	
Music Electives (upper level)	7
Minor (must be upper level)	6
COMM 1315 (optional)	3
POLS 2301, 2302	6
Social Science elective	3
MUSI 2377	3
	28

* Degree credit requires seven semesters of satisfactory completion of MUSI 1170.

Applied Music Courses (MUAP)

(Refer to Applied Music Requirements in preceding Music Department materials for complete explanation and requirements for Applied Music courses)

0200 Developmental Applied Music

1101. Beginning Band or Orchestral Instruments

1181 Secondary Voice

1225*, 3225* Bassoon

1209*, 3209*, 3409** Cello

1229*, 3229*, 3429** Clarinet

1237*, 3237*, Trumpet

1217*, 3217*, 3417** Flute

1241*, 3241*, 3441** French Horn

1221*, 3221*, 3421** Oboe

1269*, 3269*, 3469** Piano

1233*, 3233*, 3433** Saxophone

1257*, 3257*, 3457** Percussion

1213*, 3213* Double Bass

1245*, 3245*, 3445** Trombone

1249*, 3249* Euphonium

1253*, 3253*, Tuba

1205*, 3205* Viola

1201*, 3201*, 3401** Violin

1281*, 3281*, 3481** Voice

1283, 3483 Composition

*One 30-minute private lesson and one-hour class per week.

**One hour private lesson and one one-hour class per week.

Music Courses (MUSI)

1170	Recital	1:1:0
	Attendance at scheduled recitals and concerts as prescribed by the Department of Music. Successful completion of seven semesters required for graduation. Courses may be taken seven times for credit and are offered on a pass/fail basis.	
1181	Class Piano	1:1:0
	Class piano instruction for music majors.	
1306	Introduction to Music	3:3:0
	Survey of music for non-music students. Covers the major style periods from the Renaissance to the present with emphasis on the development of basic listening skills and critical thinking. Requires attendance at instructor-specified recitals or concerts.	
2377	Computers in Music	3:3:0
	An overview of computer technology as related to the field of music. Includes study in technological developments and software applicable to the student's area of specialization.	
3110	Brass	1:1:0
	Music, materials, and basic techniques for trumpet and horn.	
3120	Brass	1:1:0
	Music, materials, and basic techniques for trombone, baritone and tuba.	
3130	Strings	1:1:0
	Music, materials, and basic techniques for violin and viola.	

3140	Strings Music, materials, and basic techniques for cello and double bass.	1:1:0
3150	Percussion Music, materials, and basic techniques for percussion instruments.	1:1:0
3310	Kodaly Concepts of Music The study of elementary folk music, materials and techniques using the Kodaly concept. <i>Prerequisite: MUTY 1370 (or equivalent).</i>	3:3:0
3320	Advanced Kodaly Concepts of Music The study of advanced folk Music, materials and techniques with the Kodaly concept. <i>Prerequisite: MUSI 3310 and MUTY 1370 (or equivalent).</i>	3:3:0
3350	Choral Music A detailed study of choral music. Areas of study include history, repertoire and performance.	3:3:0
3360	Instrumental Music A detailed study of instrumental music. Areas of study include history, repertoire and performance.	3:3:0
3370	Choral Conducting Basic patterns and rudiments of choral conducting and rehearsal techniques. <i>Prerequisites: some vocal study, piano keyboard, one year of vocal laboratory and MUTY 2311.</i>	3:3:0
3371	Music for Elementary Teachers Designed to familiarize elementary education majors with the music skills and teaching techniques to assist the music specialist. Course does not fulfill the Fine Arts core curriculum requirement.	3:3:0
3377	Marching Methods Introduction to basic marching band maneuvers and marching band music. Fundamentals in all styles of drill design and charting. Computer assisted charting. On-campus observations. Hands-on training with campus laboratory band.	3:3:0
3380	Instrumental Conducting Basic patterns and rudiments of instrumental conducting and rehearsal techniques. <i>Prerequisites: applied music, instrumental performing laboratory and MUTY 2311.</i>	3:3:0
4110	Woodwinds Music, materials and basic techniques for flute, clarinet and saxophone.	1:1:0
4120	Woodwinds Music, materials and basic techniques for oboe and bassoon.	1:1:0
4300	Problems and Projects in Music Education An individual problem or project will be assigned in the music education area as necessary. <i>Prerequisite: consent of the Department Chair.</i>	3:3:0
4310	Problems and Projects in Music Literature An individual problem or project will be assigned in the music literature area as needs arise. <i>Prerequisite: consent of the Department Chair.</i>	3:3:0
4320	Problems and Projects in Music Theory An individual problem or project will be assigned in the music theory area as needs arise. <i>Prerequisite: consent of the Department Chair.</i>	3:3:0

Music Laboratory (MULB)*

* Courses in Music Laboratory may be repeated for credit—total credit not to exceed eight semesters for any one course.

1170	A Capella Choir A course in choral singing, organized to furnish training in the more important works of choral literature. Presentation of selections in public throughout the year. Audition required. Open to qualified students from other departments.	1:0:6
1171	Cardinal Singers Performing choral ensemble with instrumental combo accompaniment specializing in popular and folk repertoire. Audition required. Open to qualified students from other departments	1:0:6
1172	Grand Chorus A course in choral singing, designed to acquaint the student with the larger works in choral literature. A public concert is given each semester. Open to qualified students from other departments	1:0:3
1173	Orchestra A performing ensemble open to all University students who can qualify. Required of any student majoring in a string instrument	1:0:6
1175	Marching Band for Music Majors A professional course limited to and designed specifically for music majors.	1:0:6

1177	Symphonic Band	1:0:6
	Performance of symphonic wind ensemble and band repertoire. Audition required for admittance.	
1271	Marching Band.	2:0:6
	Two performance of march music and military drill. Open to any student who can qualify. The study and semesters completes PE activity requirement.	
1157	Opera	1:0:3
	A laboratory class for advanced voice students providing study of complete operatic roles, scenes and excerpts for presentation in the opera-theatre. Annual full-scale opera production. Auditions open to all qualified students.	
1174	Repertoire and Pedagogy	1:1:0
	A presentation and study of the literature, its performance, styles and means of presentation for a particular instrument or instruments. Eight semesters in the same instrument required (MUAP-Applied) of each major. Class piano instruction for music majors.	
1178	Dance Band	1:0:3
	Organized to furnish training in all styles of dance band performance. Open to any student who can qualify.	
1179	Percussion Ensemble	1:0:1
	The study and performance of chamber percussion literature. Designed to provide experience on all of the percussion instruments.	
4130	Chamber Music Ensemble	1:0:3
	String ensemble, woodwind, brass ensemble and percussion ensemble. A course designed to give the student an opportunity to study and perform music written for the smaller instrumental ensembles. These groups will participate in various recital programs throughout the year. Open to any student upon recommendation of the instructor.	

Music Literature Courses (MULT)

1208	Music Literature.	2:2:0
	An appraisal of the important events in music history with emphasis upon those aspects of music associated with style, form and performance. Familiarization of the student with music terminology and thorough briefing on score reading through the use of recordings from the significant periods of music history.	
3220	Music History I	2:2:0
	A survey of the literature and advances made in music from the Medieval era to the mid-Renaissance.	
3330	Music History II	3:3:0
	A survey of the literature and advances made in music from Mid-Renaissance to the pre-Classic era to the present. Two hours of listening required per week in addition to class lecture. <i>Prerequisite: MULT 1208-3220 and MUTY 2311-2312.</i>	
3340	Music History III	3:3:0
	A survey of the literature and advance made in music from the Classic era. Two hours of listening required per week in addition to class lecture. <i>Prerequisite: MULT 1208-3220 and MUTY 2311-2312</i>	

Music Theory Courses (MUTY)

1370	Elements of Music	3:3:0
	Designed to prepare students for advanced study in music theory. A study of scales, chords, musical terminology, key signatures, sight-singing, musical notation and the harmonic, melodic and rhythmic structure of music.	
1311, 1312	Theory I, II Elementary Harmony	3:5:0
	Elementary keyboard and written harmony, sight singing; ear training. <i>Prerequisite: MUTY 1370 or by advanced standing exam.</i>	
2311, 2312	Theory III, IV Advanced Harmony	3:5:0
	Advanced keyboard and written harmony; sight singing; ear training. <i>Prerequisite: MUTY 1312.</i>	
3210, 3220	Counterpoint I, II	2:2:0
	16th and 18th century contrapuntal techniques through analysis and creative writing. <i>Prerequisite: MUTY 2312.</i>	
4210	Form and Analysis	2:2:0
	Analytical study of musical forms and styles. <i>Prerequisite: MUTY 2312.</i>	
4220	Orchestration	2:2:0
	Techniques of writing and arranging for orchestral instruments in small combinations and for full orchestra. <i>Prerequisite: MUTY 2312.</i>	

Requirements for Theatre Majors:

This program provides a well-balanced curriculum that prepares students to enter either the professional theatre or the teaching profession on the secondary level. Students participate in all phases of scheduled theatre productions and are provided a background in both performance and technical theatre aspects.

New students and transfers should refer to the front of the catalog for admission requirements and must see the Director of Theatre immediately for purchase of a Theatre Manual of Procedures for other requirements of this field. New students and transfers must enroll in THEA 1370 for two consecutive semesters and follow that with two semesters of THEA 2370. Minors should enroll in one semester each of THEA 1370 and 2370. A theatre course with a grade of "D" or lower will not apply toward graduation.

Suggested Program of Study

First Year	Second Year
ENGL Comp6	ENGL Lit3
MATH6	HIST 1301 and 13026
PHIL 13703	PEGA (Dance)4
THEA 1370.....6	THEA 2370.....3
THEA 1330.....3	THEA 2371.....3
THEA 1351.....3	THEA 3360.....3
THEA 2336.....3	THEA 3330.....3
THEA 2372.....3	Found or Prof. Elec.....6
THEA 2375.....3	
<u>36</u>	<u>31</u>
Third Year	Fourth Year
POLS6	COMM 1315.....3
ARTS 1301, MUSI 1306 or DANC 13703	PSYC 2301 OR SOCI 13013
Lab Sci8	THEA 4371.....3
THEA 3361.....3	Found or Prof. Elec21
THEA 4360.....3	
THEA 4390.....3	
THEA 3380.....3	
Found OR Prof. Elec.....9	
<u>38</u>	<u>30</u>

Note: 138 hours required for the theatre degree.

Note: For education degree, substitute second teaching field and PEDG classes for electives within each year.

Requirements for Theatre minor (24 hours):

Lower Level	Upper Level
THEA 13303	THEA 33303
THEA 13513	THEA 33803
THEA 23753	THEA 3361 or 43613
THEA 1370 or THEA 2370 (2 courses) 6	

Theatre Courses (THEA)

1310	Introduction to Theatre A general survey of the major fields of theatre. Emphasis on the various types and styles of plays, knowledge of the functions of the personnel and other elements of theatre production. (Transfers as TCCN: DRAM 1310)	3:2:3
1330	Stagecraft I Basic course on the handling and construction of scenery, the care of stage properties and theatrical terminology. Provides hands-on experience for University productions.	3:2:3
1351	Acting I-Fundamentals of Acting Introductory principles and practice for basic acting training.	3:2:3
1352	Acting II-Stage Movement A continuation of the process of acting with emphasis on movement and vocal work. <i>Prerequisite: THEA 1351.</i>	3:2:3
1370	Theatre Activities Laboratory instruction for all majors, minors and non-majors in the practical application of theatre work ethics and procedures. This class is required of all theatre majors for two consecutive semesters, excluding summers, while enrolled in the University. Required of all minors for one semester.	
2336	Voice and Diction Vocal development, vocabulary building and pronunciation skills through systematic drills and exercises.	3:3:0
2370	Production Crew Laboratory instruction for all majors, minors and non-majors in technical production techniques. This class is required of all theatre majors for two consecutive semesters, excluding summers, while enrolled at the University. Required of all minors for one semester. <i>Prerequisite: THEA 1370.</i>	
2371	Costume Construction Basic course in costuming, utilizing theatrical construction principles and techniques. Hands-on experience in University productions.	3:2:3
2372	Introduction to Design for the Theatre Exploration of the visual language of the theatre through projects in basic watercolor, sculpture and drafting.	3:2:3
2375	Stage Make-up Principles Principles and practices in the application of stage make-up and design. Exploration and experimentation in the use of three-dimensional make-up.	3:2:3
3310	Auditioning Principles in the selection and preparation of scenes and monologues for auditioning for theatre productions, films and television work. <i>Prerequisite: THEA 1351, 1352.</i>	3:2:3
3320	Scenic Design Concentration on hands-on design work with emphasis on composition, renderings, model-making and working drawings. <i>Prerequisite: THEA 2372 and/or Drafting.</i>	3:2:3
3330	Stage Lighting A course intended to help the student develop a sense of and a facility with light as an element in a production. Hands-on experience with University lighting equipment and control boards.	3:2:3
3361	Theatre History I A survey of the history of theatre from the Greeks to the 18th Century.	3:3:0
3360	Children's Theatre Participation in a theatrical production for the children of local school districts. Exploration of the principles of producing plays for children. Participation in the production is required. May be repeated once for credit.	3:2:3
3370	Acting III-Period Styles A historical perspective of the acting styles of the major time periods of theatrical performance. Performance oriented. <i>Prerequisite: THEA 1351, 1352.</i>	3:2:3

- 3380 Fundamentals of Directing** 3:3:3
Introductory principles and practices for directing stage productions. In-class exercises will give the director practical experience in dealing with styles and techniques.
Prerequisites: THEA 1330 and 1351.
- 3390 Painting and Scenic Art** 3:2:3
A hands-on course that teaches specific painting and detailing techniques.
Prerequisite: THEA 1330/2372.
- 4300 Theatre Management**
An in-depth study of working on the business side of managing a theatrical house. The course will follow the conception of a theatre through all of the development stages of fundraising, grant writing, publicity and everyday financial workings.
- 4310 Problems and Projects in the Theatre** 3:A:0
Individualized instruction or supervised projects in the various areas of the theatre. May be performance or technically oriented. May be repeated up to three times for credit.
- 4340 Media Performance**
A split course for those interested in on-camera and off-camera work. Half of the semester will focus on the off-camera technology and the other half on the on-camera performance techniques.
Prerequisite: THEA 1351.
- 4350 Costume Design** 3:2:3
Study of the costume designers role in the creative process and the principles of design through historical accuracy.
Prerequisite: THEA 2371.
- 4360 Theatre History II** 3:3:0
A survey of the history of theatre from the 18th century to the present day.
Prerequisite: THEA 3361.
- 4370 Acting IV - Acting Theories** 3:3:0
Emphasis on the acting theories of Stanislavski, Strasberg and current methods of development in the performance business.
Prerequisite: THEA 1351, 1352, 3370.
- 4371 Directed Theatre Activities**
A "how-to" course on the organization and production of a variety of theatrical activities. Covers the areas of fundraising, publicity, promotion, script and technical requirements. Recommended for anyone who will work in education on all levels, community theatres and professional theatres. Each student will be required to participate in an internship program at an assigned theatre during the semester or as arranged. This course is strongly recommended for all majors.
Prerequisite: THEA 4300.
- 4380 Advanced Directing** 3:3:3
Application of the principles and practices of play directing for the upper level theatre major. Production work is required outside of class.
Prerequisite: THEA 3380.

Requirements for Dance Major

The dance division offers two programs of study. A student choosing a public school teaching career should follow the certification program which leads to certification to teach dance plus an approved additional teaching field at the secondary level. A student selecting the non-certification program prepares for a career in private studio teaching, administration, choreography, professional performance and other dance-related fields. A grade of "C" must be earned in each of the dance theory courses; a grade of "B" must be earned in each of the dance studio courses.

Requirements for Dance Minor (22 hours):

Lower Level	Upper Level
Ballet (2 courses) from:	
DANC 1241, 2241, 3241, 4241	DANC 3301
DANC 1241, 2241, 3241, 4241	DANC 3380 or 3381
Modern Dance (2 courses) from:	DANC 4360
DANC 1245, 2245, 3245, 4245	
Jazz or Dance Perf. (1 course) from:	
DANC 1247, 1248, 2247, 1251, 1252	
DANC 1301	

**Bachelor of Science — Dancet
(leading to Teacher Certification)**

First Year	Second Year
ENGL Comp	BIOL 2401, 2402
MATH	ENGL Lit
COMM 1315	POLS 2301, 2302
PHIL 1370	HIST 1301, 1302
Fine Arts (not Dance)	Second Teaching Field
DANC 1104	DANC 1222 or 1228
Soc Sci	DANC 2325
DANC 1210 or 1211	THEA 2371 or 2372
DANC 1241	
DANC 1245	
31	40
Third Year	Fourth Year
PEDG 3310	DANC 3350
PEDG 3320	DANC 3310
READ 3326	DANC 4360
MUSI 3371	PEDG 3380
DANC 3360	PEDG 4380
DANC 3241 or 4241	PEDG 4920
DANC 3245 or 4245	Second Teach Field
DANC 3381	
DANC 3301	
DANC 1252	
Second Teach Field	
36	30

NOTE—In order to develop and maintain a high technical level, dance majors are required to take ballet technique and/or modern dance technique each semester.

† For details concerning requirements for teacher certification and information on professional development courses consult the College of Education and Human Development section in this bulletin

Bachelor of Science — Dance Non-Certification Program

First Year		Second Year	
ENGL 1301, 1302	6	Engl Lit	3
MATH	6	PHIL 1370	3
COMM 1315	3	POLS 2301, 2302	6
HIST	6	Fine Arts (not dance)	3
DANC 1104	1	DANC 2241	2
DANC 1241	2	DANC 2245	2
DANC 1245	2	DANC 1251	2
DANC 1247	2	DANC 1301	3
DANC 1211	2	DANC 1248	2
DANC 1228 or 1222	2	THEA 2371 or 2372	3
DANC 2273	2	Electives	6
	32		36
Third Year		Fourth Year	
BIOL 2401, 2402	8	DANC 2247	2
Soc Sci	3	DANC 4241	2
DANC 3301	3	DANC 4245	2
DANC 3350	3	DANC 4380	3
DANC 3241	2	DANC 1270	2
DANC 3245	2	DANC 3360	3
DANC 1252	2	DANC 3310	3
DANC 2325	3	MUSI 3371	3
DANC 3380	3	DANC 3381	3
Electives	6	Electives	6
	35		29

NOTE—In order to develop and maintain a high technical level dance majors are required to take ballet techniques and/or modern dance technique each semester.

Bachelor of Arts — Dance Non-Certification Program

Requirements are the same as detailed in the above program except for the completion of the course numbered 2312 in a foreign language and any required prerequisites. The elective hours are used to complete a minor field study.

Dance Studio Courses (DANC)

Dance studio courses (except 2170) will fulfill the PEGA requirements.

- 1104 Careers in Dance** 1:1:0
An overview of dance performing, teaching, choreography and related careers. To be taken in the first year of study.
- 1210, 1211 Tap I, Tap II** 2:2:2
Instruction and practice in tap dance, including a variety of historical and current styles. History and tap terminology is included.

1222	World Dance	2:2:2
	Instruction and practice in folk dances from around the world, including material on the historical and cultural background of the national dance. Teaching techniques for children and adult beginners are emphasized.	
1228	Social/Ballroom Dance	2:2:2
	An introduction to partner, line and other group social dance forms, including historical and current contemporary styles.	
1241, 2241, 3241, 4241	Ballet I, II, III, IV	2:2:2
	Instruction and practice in ballet technique, barre and center work. Students are placed in the appropriate level by the instructor. May be repeated for credit.	
1245, 2245, 3245, 4245	Modern Dance I, II, III, IV	2:2:2
	Instruction and practice in modern dance techniques, including floor work, center and traveling combinations. Various training styles are explored. May be repeated for credit.	
1247, 1248, 2247	Jazz I, II, III	2:2:2
	Instruction and practice in jazz dance, including historical and current styles. May be repeated for credit.	
1251, 1252	Dance Performance I, II	2:2:2
	Rehearsal and performance of a variety of choreographic styles. Formal and informal performance opportunities at the instructor's discretion. May be repeated for credit.	
1270	Selected Dance Techniques	2:2:2
	Instruction and practice in selected world dance and theatrical dance techniques. May be repeated for credit.	
2272	Aerobic Dance	2:2:2
	Fitness Dance Class designed to improve cardiovascular endurance, strength, coordination and flexibility.	
2273	Improvisation	2:2:2
	A creative dance technique for selecting and developing new movement. This course is a prerequisite to Choreography I.	

Dance Theory Courses (DANC)

1301	Choreography I	3:3:0
	The analysis of the basic elements of dance composition, with emphasis on skilled use of space, dynamics and rhythms to design original forms. <i>Prerequisite: DANC 2273</i>	
2304	Dance Appreciation	3:3:0
	A survey of the art of dance, its role in world cultures, history and current issues. This is the only dance course that satisfies the fine arts core for non-dance majors.	
2325	Somatics	3:3:0
	A course covering correct physiological development as it relates to dance training. Various therapeutic and corrective approaches to training will be explored.	
3301	Theatre Dance Forms	3:2:1
	An overview of various dance styles of noted choreographers in musical theater. This course includes both lecture and studio experience.	
3310	Labanotation	3:3:0
	The study of the Laban system of writing dance, with an emphasis on reading, movement, analysis and the reconstruction of various dance forms.	
3350	Principles of Creative Dance	3:3:0
	Methods of teaching the creative exploration of movement in a constructive environment, for children in the primary grades.	
3360	Choreography II	3:3:0
	Practical experience in building total artistic dance compositions both solo and group. <i>Prerequisite: DANC 1301</i>	
3380	Dance History I	3:3:0
	The evolution of religious, social and theatrical dance from prehistoric times through the 18 th century.	

- 3381 Dance History II** **3:3:0**
The historical development of religious, social and theatrical dance forms from the 19th century to the present.
Prerequisite: DANC 3380.
- 4101, 4301 Problems in Dance** **3:1 or 3:0**
Assigned projects in dance education, research, performance or choreography. May be repeated for credit two times.
Prerequisite: permission of Department Chair.
- 4360 Dance Pedagogy** **3:3:0**
Teaching practices that fully train strong, flexible and enduring dancers will be explored, supplemented by scientific and practical information. Students will prepare lesson plans and teach a selected dance form in a supervised studio or classroom setting.

General Studies

Center for General Studies

Executive Director: Madelyn D. Hunt

1060 B East Virginia, Phone 832-6030

The Center for General Studies assists students with enrollment and course selection and provides counseling on academic progress and academic options. The Center for General Studies provides this assistance to students who are unsure about the proper academic discipline to choose. Students without a major are restricted to 1000- and 2000-level courses and are free to enroll in other lower-level electives while taking general education subjects. Normally, a student should choose a major by the third semester of enrollment. Students without a major must abide by the Center's probation and suspension policies.

Consult the specific discipline sections of this catalog to identify advisors and advising centers for specific programs.

Bachelor of General Studies

Executive Director: Madelyn D. Hunt

1060 B East Virginia, Phone 832-6030

The Bachelor of General Studies degree can provide opportunity for an individual to construct a personal curricular plan, i.e., to take courses in more than one area of interest, resulting in a broadbased program of study. Additionally, the Bachelor of General Studies is designed for those students who have already established careers and who wish to earn credit toward a degree while learning for the pleasure of learning.

The Bachelor of General Studies will be granted upon the completion of the General Degree requirements of the University. Course selection is subject to the approval of the academic advisor. A minimum of thirty upper-division hours with at least nine hours in each of three disciplines is required. At least twelve hours of these upper-division courses will be at the 4000 level. An overall grade point average of 2.00 will be required on all upper-division courses used to meet the General Studies requirements.

Suggested Program of Study

First Year

Fall Semester	Spring Semester
ENGL 13013	ENGL 1302/13743
Math3	Math3
PHIL 13703	Elective.....3
Fine Arts3	Elective.....3
PEGA1	
13	12

Second Year

Fall Semester	Spring Semester
Engl Lit.....3	HIST 13013
Lab Science4	Lab Science4
COMM 1315.....3	Social Science3
Elective.....3	Elective.....3
Elective.....3	Elective3
16	16

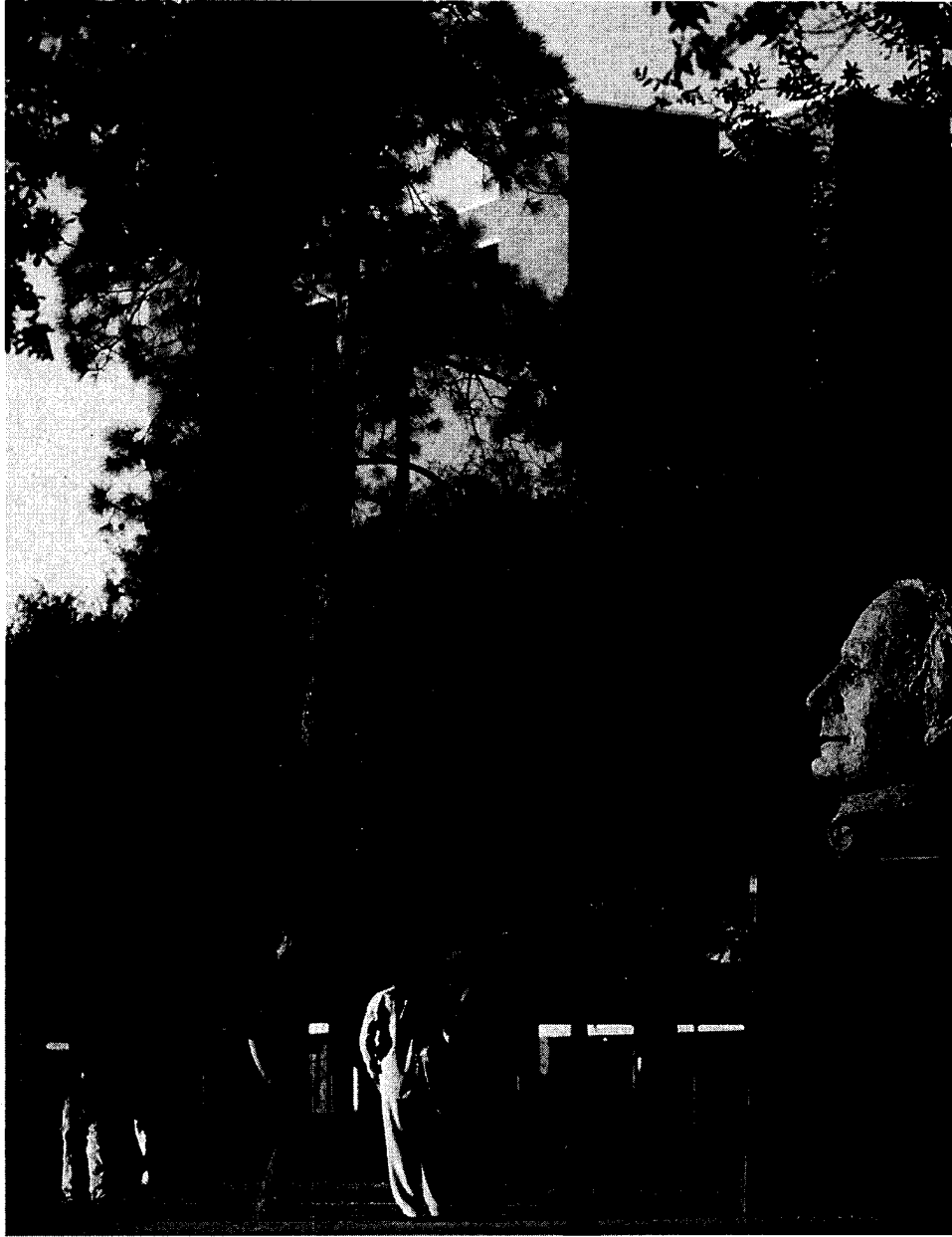
Third Year

Fall Semester	Spring Semester
HIST 13023	POLS 23013
Advanced Elective.....3	Advanced Elective.....3
Advanced Elective.....3	Advanced Elective.....3
Elective3	Elective.....3
Elective3	Elective3
<u>15</u>	<u>15</u>

Fourth Year

Fall Semester	Spring Semester
POLS 23023	Advanced Elective.....3
Advanced Elective.....3	Advanced Elective.....3
Advanced Elective.....3	Advanced Elective.....3
Advanced Elective.....3	Elective.....3
Elective3	Elective3
Elective3	
<u>18</u>	<u>15</u>

***Electives hours—42 elective hours or more of courses as decided by the student and advisor.
 Advanced elective hours—30 semester hours or more of courses at the 3000 to 4000 levels in three disciplines and at least 12 semester hours must be at the 4000 level.



Surveyed by a larger-than-life bust of Mirabeau B. Lamar, the father of Texas education, students pause in the quadrangle, near the eight-story Mary and John Gray Library.



Students who choose to pursue advanced study in the College of Graduate Studies gain expertise from renowned faculty, opportunities for research and the benefit of rigorous instruction in specialized fields.

College of Graduate Studies

Jerry W. Bradley, Ph.D., Associate Vice President
for Research and Dean of Graduate Studies

219 Wimberly Bldg.
Phone 880-8229

The Graduate College

The Dean of the College of Graduate Studies is responsible for the direction of graduate programs of the University. The Dean is assisted by the Graduate Council, an advisory body consisting of representatives from each college offering graduate degrees.

Degrees Offered

Master of Arts in

English, History, Visual Art

Master of Business Administration

Master of Education in

Counseling and Development, Supervision, Administration, Educational Technology, Elementary Education, Secondary Education, Special Education, Reading

Master of Engineering

Master of Engineering Management

Master of Engineering Science

Master of Music

Master of Music Education

Master of Public Administration

Master of Science in

Applied Criminology, Audiology, Biology, Chemistry, Community Psychology, Computer Science, Deaf Studies/Habilitation, Environmental Engineering, Environmental Studies, Family and Consumer Sciences, Industrial and Organizational Psychology, Kinesiology, Mathematics, Nursing Administration, Nursing Education, Speech-Language Pathology, Theatre

Doctor of Audiology

Doctor of Education in Deaf Education

Doctor of Engineering

The Graduate Catalog

The Graduate Catalog contains a complete listing of courses, admission requirements and other information of value to graduate students. Requests for copies should be directed to the College of Graduate Studies, Lamar University, Box 10078, Lamar University Station, Beaumont, Texas 77710.

Admission to Graduate Programs

All students seeking admission to a degree program must first meet the minimum standards of the College of Graduate Studies. Applicants must also have the approval of the department in which the degree program is offered. **The admission standards of departments may exceed those of the College of Graduate Studies.**

1. **Application Deadlines:** Domestic students (U.S. citizens and permanent residents) must submit all application materials at least 30 days before Fall, Spring or Summer registration. Deadlines for international students are April 15 for Fall semester, September 1 for Spring, and January 15 for Summer terms.
2. **Application Submission by Domestic Students (U.S. citizens or permanent residents):** Applicants for admission to the College of Graduate Studies must submit the following to the Graduate Admissions coordinator at least 30 days before registration:
 - A. **Completed Application Form**
 - B. **Transcripts.** Submit an official transcript from each college or university attended to the Graduate Admissions Coordinator. All transcripts submitted to Lamar University become the property of the University and are not returnable.
 - C. **GRE and GMAT Test Scores:** With two exceptions, all prospective graduate students are required to submit scores on the Graduate Records Examination (GRE). Applicants should have the Educational Testing Service, which administers the GRE, send their test scores directly to Lamar University, Beaumont. The two exceptions to the GRE requirement are applicants for the Master of Business Administration (MBA) and deaf applicants. MBA applicants are not required to take the GRE but must submit scores on the Graduate Management Test, GMAT. See the College of Business section of the Graduate Catalog for specific requirements. Deaf applicants may substitute performance intelligence and reading ability test scores for the GRE. **GRE and GMAT scores more than five years old will be accepted only with permission of the Graduate Dean.**
3. **Deaf applicants** who have a severe or a profound hearing loss acquired congenitally or prelingually will be considered on an individual basis and need not submit GRE or GMAT scores. In lieu of GRE/GMAT scores, deaf applicants must submit above-average performance intelligence scores (preferably the performance scale of the WAIS-R) and above-average university grades, pass an interview with an admission committee comprised of faculty from the receiving department, and demonstrate adequate literacy and communication skills for graduate training. Literacy in this case includes both the reading and writing of English, but not necessarily equivalent to hearing norms. Communication skill may be demonstrated in sign language and/or speech.
4. **Admission Standards for Domestic Students:**
 - A. **Undergraduate Degree.** A prospective student must have a bachelor's degree from an institution approved by a recognized accrediting agency.
 - B. **GRE Scores and Grade Point Average (GPA).** All applicants for full admission, except for deaf students and those seeking admission to the MBA program, must meet the institutional GRE and GPA standard according to the

formula $(\text{GPA} \times 200 + (\text{GRE V} + \text{Q}) \geq 1350$. The GPA used in the formula may be either the overall or the last 60 semester hours, whichever is higher. The grade point average is calculated by dividing the total number of semester hours attempted or by the last sixty semester hours). For this computation, "A" equals 4 grade points, "B" equals 3, "C" equals 2, "D" equals 1 and "F" equals 0. Individual departments may have GRE and GPA standards that exceed the institutional minimum. See the department sections of this catalog for admission standards that vary from the institutional minimum.

- C. **GMAT Scores.** Admission to the Master of Business Administration (MBA) program is based in part on a formula that considers both the undergraduate GPA and the GMAT score. See the College of Business section of the Graduate Catalog for details.
 - D. **Undergraduate Grade Point Average.** Our admission standard of $(\text{GPA} \times 200) + (\text{GRE V} + \text{Q}) \geq 1350$ is such that lower GPAs require higher GREs. Similarly, for the College of Business, the admission formula considers the GPA in such a way that the GMAT and GPA are interdependent (the GPA minimum "floats" in relationship to the applicant's GMAT score). See the College of Business section of the Graduate Catalog for details.
 - E. **Provisional Admission.** In those departments or programs that have admission standards exceeding the institutional minimum, we allow, at departmental discretion, provisional admission. A student admitted provisionally must complete the first nine semester hours of graduate work with a GPA of at least 3.0. A student who does not meet the 3.0 GPA after nine semester hours is subject to dismissal.
 - F. **Undergraduate Work in Intended Major Field, Prerequisites and Deficiencies.** The applicant for graduate study ordinarily must have completed no fewer than 24 semester hours of undergraduate work in the intended major field, 12 of which must be at the junior and/or senior level. Applicants who do not meet this requirement may be required to make up such deficiencies as prescribed by the graduate major. A GPA of 3.0 for assigned deficiency/leveling courses must be maintained, and grades below "C" will not be accepted. Departments that wish to do so may establish more stringent requirements. MBA students with deficiencies will be required to complete first-year MBA courses as determined by the College of Business with a grade of "C" or better and an overall GPA of "B" or better in all course work taken.
5. **Admission Procedures and Standards for International Students.** International students are required to follow the procedures and meet the standards stated above. Additional requirements for international students include the following:
- A. **Transcripts.** International students must submit official certified transcripts from all colleges and universities attended. If the transcripts are not in English, the student must provide certified translations.
 - B. **TOEFL Score.** Most international students whose first language is not English must take the Test of English as a Foreign Language (TOEFL) and score better than 525. Lamar University must receive the official TOEFL scores issued directly from Educational Testing Services (ETS) before admission can be granted. ETS will not issue official scores that are more
-

than two years old. For information about testing dates and places, write to TOEFL, PO Box 899, Princeton, NJ 08540, USA. Except for the Doctor of Engineering degree, which requires a TOEFL score of 530 or better, the TOEFL is not required of those international students who have received an undergraduate or graduate degree from a university where English is the language of instruction (e.g., universities in the United States, Canada and England). As part of the orientation process, international students with relatively low but passing TOEFL scores will be required to take one or more additional English as a Second Language (ESL) proficiency examinations and may be required to participate in ESL coursework as part of their graduation requirements.

- C. **TWE Score.** International students who are required to take the TOEFL must also submit scores for the Test of Written English (TWE). The TWE is available at the same test centers that administer the TOEFL. The minimum TWE score required by Lamar University is 5. Those scoring less than 5 may be admitted to Lamar University but will be required to enroll in English as a Second Language courses.
 - D. **Proof of Financial Resources.** International students must prove that they have enough financial resources to attend Lamar University. As part of the application process, international students must complete the Confirmation of Financial Resources form that asks for personal, family, and/or sponsor financial information and a bank verification of financial holdings. All international students are required to have health and accident insurance for themselves and all their dependent family members in the United States. Insurance may be purchased at the University during the registration period.
 - E. Proficiency in spoken English may be required by some graduate programs.
6. **Admission Procedures and Standards for Doctoral Degrees.** Prospective Doctor of Engineering (D.E.) students must send a letter to the Dean, College of Engineering, Box 10057 L.U.S., Beaumont, TX, 77710. The letter should give information on the applicant's engineering experience, current employment and major research interests. For details on GPA, GRE, TOEFL and background requirements, see the College of Engineering section of the Graduate Catalog.
- Prospective Doctor of Audiology (Aud.D.) and Doctor of Education in Deaf Education (Ed.D.) students must send a letter to the Chair, Department of Communication Disorders (Speech and Hearing), Box 10076, Lamar University, Beaumont, TX 77710. The letter from deaf education students should give information on the applicant's deaf education experience, training, employment history, current employment, and major research interests. Deaf applicants are encouraged, and experience as a teacher of the deaf is required. For details on GPA, GRE, TOEFL and background/experience requirements, see the College of Fine Arts and Communication section of the Graduate Catalog.

LAMAR UNIVERSITY
Texas Common Course Number Cross-Reference

ACC 231	ACCT2301	AM 3262	MUAP3249	ART 239	ARTS2379
ACC 232	ACCT2302	AM 3263	MUAP3253	ART 3199	ARTS3199
ACC 331	ACCT3310	AM 3271	MUAP3205	ART 3303	ARTS3303
ACC 332	ACCT3320	AM 3273	MUAP3201	ART 3313	ARTS3313
ACC 333	ACCT3330	AM 3281	MUAP3281	ART 3315	ARTS3315
ACC 334	ACCT3340	AM 3411	MUAP3409	ART 3316	ARTS3316
ACC 338	ACCT3380	AM 3415	MUAP3429	ART 3317	ARTS3317
ACC 339	ACCT3390	AM 3417	MUAP3438	ART 3323	ARTS3323
ACC 430	ACCT4300	AM 3421	MUAP3417	ART 3325	ARTS3325
ACC 431	ACCT4310	AM 3423	MUAP3441	ART 3326	ARTS3326
ACC 532	ACCT5320	AM 3431	MUAP3421	ART 3327	ARTS3327
ACC 533	ACCT5330	AM 3441	MUAP3469	ART 3333	ARTS3333
ACC 534	ACCT5340	AM 3451	MUAP3433	ART 3335	ARTS3335
ACC 537	ACCT5370	AM 3453	MUAP3457	ART 3343	ARTS3343
AM 1101	MUAP1101	AM 3461	MUAP3445	ART 3351	ARTS3351
AM 1183	MUAP1181	AM 3473	MUAP3401	ART 3355	ARTS3355
AM 1203	MUAP1225	AM 3481	MUAP3481	ART 3365	ARTS3365
AM 1211	MUAP1209	AM 3483	MUAP3483	ART 3371	ARTS3371
AM 1215	MUAP1229	AM 521	MUAP5210	ART 3375	ARTS3375
AM 1217	MUAP1237	AM 522	MUAP5220	ART 3376	ARTS3376
AM 1221	MUAP1217	AM 523	MUAP5230	ART 3386	ARTS3386
AM 1223	MUAP1241	AM 541	MUAP5410	ART 4303	ARTS4303
AM 1231	MUAP1221	AM 542	MUAP5420	ART 4315	ARTS4315
AM 1241	MUAP1269	AM 543	MUAP5430	ART 4316	ARTS4316
AM 1251	MUAP1233	ANT 131	ANTH2346	ART 4325	ARTS4325
AM 1253	MUAP1257	ANT 231	ANTH2351	ART 4326	ARTS4326
AM 1257	MUAP1213	ANT 232	ANTH2372	ART 4328	ARTS4328
AM 1261	MUAP1245	ANT 235	ANTH2302	ART 4331	ARTS4331
AM 1262	MUAP1249	ANT 331	ANTH3310	ART 4336	ARTS4336
AM 1263	MUAP1253	ANT 334	ANTH3340	ART 4338	ARTS4338
AM 1271	MUAP1205	ANT 434	ANTH4340	ART 4341	ARTS4341
AM 1273	MUAP1201	ART 131	ARTS1316	ART 4343	ARTS4343
AM 1281	MUAP1281	ART 132	ARTS1317	ART 4348	ARTS4348
AM 1283	MUAP1283	ART 133	ARTS1311	ART 4353	ARTS4353
AM 3203	MUAP3225	ART 134	ARTS1312	ART 4355	ARTS4355
AM 3211	MUAP3209	ART 135	ARTS1301	ART 4358	ARTS4358
AM 3215	MUAP3229	ART 139	ARTS2356	ART 4363	ARTS4363
AM 3217	MUAP3237	ART 231	ARTS2323	ART 4368	ARTS4368
AM 3221	MUAP3217	ART 232	ARTS2324	ART 4373	ARTS4373
AM 3223	MUAP3241	ART 233	ARTS2311	ART 4375	ARTS4375
AM 3231	MUAP3221	ART 234	ARTS2326	ART 4376	ARTS4376
AM 3241	MUAP3269	ART 235	ARTS1303	ART 4378	ARTS4378
AM 3251	MUAP3233	ART 236	ARTS1304	ART 4381	ARTS4381
AM 3253	MUAP3257	ART 237	ARTS2331	ART 4388	ARTS4388
AM 3261	MUAP3245	ART 238	ARTS2316	ART 4391	ARTS4391

ART 4393	ARTS4393	BIO 344	BIOL3440	C&D 5310	CNDV5310
ART 4395	ARTS4395	BIO 345	BIOL3450	C&D 5311	CNDV5311
ART 4398	ARTS4398	BIO 346	BIOL3460	C&D 5312	CNDV5312
ART 4399	ARTS4399	BIO 347	BIOL3470	C&D 5320	CNDV5320
ART 5301	ARTS5301	BIO 4101	BIOL4101	C&D 5321	CNDV5321
ART 5305	ARTS5305	BIO 4101	BIOL5101	C&D 5322	CNDV5322
ART 5308	ARTS5308	BIO 416	BIOL4160	C&D 5323	CNDV5323
ART 5318	ARTS5318	BIO 417	BIOL4170	C&D 5350	CNDV5350
ART 5323	ARTS5323	BIO 430	BIOL4300	C&D 5351	CNDV5351
ART 5325	ARTS5325	BIO 4305	BIOL4305	C&D 5380	CNDV5380
ART 5326	ARTS5326	BIO 4360	BIOL4360	C&D 5381	CNDV5381
ART 5328	ARTS5328	BIO 4401	BIOL4401	C&D 5382	CNDV5382
ART 5335	ARTS5335	BIO 4401	BIOL5402	C&D5390A	CNDV5390
ART 5338	ARTS5338	BIO 4405	BIOL4405	C&D5390B	CNDV5391
ART 5348	ARTS5348	BIO 4405	BIOL5405	C&D5391A	CNDV5392
ART 5365	ARTS5365	BIO 4406	BIOL4406	C&D5391B	CNDV5393
ART 5368	ARTS5368	BIO 441	BIOL4410	CDC 1301	CMDS1371
ART 5378	ARTS5378	BIO 441	BIOL5406	CDC 1302	CMDS1372
ART 5385	ARTS5385	BIO 443	BIOL4430	CDC 1303	CMDS1373
ART 5386	ARTS5386	BIO 443	BIOL5430	CDC 1304	CMDS1374
ART 5388	ARTS5388	BIO 444	BIOL4440	CDC 1305	CMDS1375
ART 5395	ARTS5395	BIO 444	BIOL5440	CDC 2301	CMDS2371
ART 5398	ARTS5398	BIO 445	BIOL4450	CDC 2302	CMDS2372
ART 6390	ARTS5390	BIO 445	BIOL5455	CDC 2303	CMDS2373
ART 6391	ARTS5391	BIO 446	BIOL4460	CDC 2304	CMDS2374
AS 130	ADSV1370	BIO 446	BIOL5460	CDC 2305	CMDS2375
AS 432	ADSV4320	BIO 447	BIOL4470	CDC 3301	CMDS3301
AS 530	ADSV5300	BIO 510	BIOL5100	CDC 3302	CMDS3302
AS 539	ADSV5390	BIO 511	BIOL5110	CDC 3304	CMDS3304
BA 669A	BUSI5390	BIO 5301	BIOL5301	CDC 3305	CMDS3305
BA 669B	BUSI5391	BIO 5305	BIOL5305	CDC 4301	CMDS4301
BAC 331	BUAL3310	BIO 5401	BIOL5401	CDC 4302	CMDS4302
BAC 332	BUAL3320	BIO 541	BIOL5410	CDC 4302	CMDS5342
BAC 335	BUAL3350	BIO 545	BIOL5450	CDC 4303	CMDS4303
BAC 434	BUAL4340	BIO 547	BIOL5470	CDC 4304	CMDS4304
BAC 439	BUAL4390	BIO 669A	BIOL5390	CDC 4305	CMDS4305
BAC 530	BUAL5300	BIO 669B	BIOL5391	CDC 4305	CMDS5345
BAC 531	BUAL5310	BLW 331	BULW3310	CDC 4306	CMDS4306
BIO 1400	BIOL1470	BLW 332	BULW3320	CDC 4306	CMDS5346
BIO 1401	BIOL1471	BLW 333	BULW3330	CDC 4326	CMDS4326
BIO 141	BIOL1406	BLW 334	BULW3340	CDC 4326	CMDS5356
BIO 142	BIOL1407	BLW 434	BULW4340	CDC 4350	CMDS4350
BIO 143	BIOL2401	BLW 435	BULW4350	CDC 5250	CMDS5250
BIO 144	BIOL2402	BLW 438	BULW4380	CDC 5301	CMDS5301
BIO 240	BIOL2428	BLW 530	BULW5300	CDC 5302	CMDS5302
BIO 246	BIOL2476	BLW 535	BULW5350	CDC 5304	CMDS5304
BIO 245	BIOL2420	BLW 539	BULW5390	CDC 5305	CMDS5305
BIO 342	BIOL3420	C&D 5301	CNDV5301	CDC 5306	CMDS5306

CDC 5307	CMDS5307	CE 336	CVEN3360	CHE 442	CHEN4420
CDC 5308	CMDS5308	CE 337	CVEN3370	CHM 1101	CHEM1171
CDC 5309	CMDS5309	CE 339	CVEN3390	CHM 135	CHEM1375
CDC 5310	CMDS5310	CE 411	CVEN4110	CHM 141	CHEM1411
CDC 5312	CMDS5312	CE 411	CVEN5110	CHM 142	CHEM1412
CDC 5313	CMDS5313	CE 4212	CVEN4212	CHM 143	CHEM1405
CDC 5316	CMDS5316	CE 4212	CVEN5212	CHM 144	CHEM1407
CDC 5317	CMDS5317	CE 4290	CVEN4290	CHM 1460	CHEM1460
CDC 5318	CMDS5318	CE 4290	CVEN5290	CHM 241	CHEM2401
CDC 5320	CMDS5320	CE 430	CVEN4300	CHM 333	CHEM3331
CDC 5321	CMDS5321	CE 430	CVEN5300	CHM 341	CHEM3411
CDC 5322	CMDS5322	CE 430	ENGR5327	CHM 342	CHEM3412
CDC 5323	CMDS5323	CE 431	CVEN4350	CHM 4101	CHEM4101
CDC 5324	CMDS5324	CE 431	CVEN5350	CHM 411	CHEM4111
CDC 5325	CMDS5325	CE 431	ENGR5314	CHM 412	CHEM4121
CDC 5326	CMDS5326	CE 4310	CVEN4310	CHM 413	CHEM4131
CDC 5327	CMDS5327	CE 4310	CVEN5310	CHM 414	CHEM4132
CDC 5328	CMDS5328	CE 4310	ENGR5328	CHM 427	CHEM4271
CDC 5329	CMDS5329	CE 432	CVEN4320	CHM 430	CHEM4351
CDC 5332	CMDS5332	CE 432	CVEN5320	CHM 430	CHEM5351
CDC 5334	CMDS5334	CE 432	ENGR5308	CHM 4301	CHEM4301
CDC 5336	CMDS5336	CE 434	CVEN4340	CHM 431	CHEM4311
CDC 5337	CMDS5337	CE 434	CVEN5340	CHM 432	CHEM4312
CDC 5338	CMDS5338	CE 435	CVEN4355	CHM 436	CHEM4341
CDC 5350	CMDS5350	CE 435	CVEN5355	CHM 436	CHEM5341
CDC 5351	CMDS5351	CE 435	ENGR5324	CHM 4360	CHEM4360
CDC 5390	CMDS5390	CE 435	ENGR5326	CHM 437	CHEM4371
CDC 5391	CMDS5391	CE 437	CVEN4370	CHM 4401	CHEM4401
CDC 5403	CMDS5403	CE 437	CVEN5370	CHM 441	CHEM4411
CDC 6301	CMDS6301	CE 438	CVEN4380	CHM 441	CHEM5411
CDC 6302	CMDS6302	CE 438	CVEN5380	CHM 442	CHEM4412
CDC 6303	CMDS6303	CE 438	ENGR5310	CHM 442	CHEM5412
CDC 6304	CMDS6304	CE 439	CVEN4390	CHM 446	CHEM4461
CDC 6305	CMDS6305	CE 439	ENGR5323	CHM 447	CHEM4471
CDC 6307	CMDS6307	CE 439	CVEN5390	CHM 448	CHEM4481
CDC 6308	CMDS6308	CHE 3311	CHEN3311	CHM 5301	CHEM5301
CDC 6309	CMDS6309	CHE 332	CHEN3320	CHM 531	CHEM5310
CDC 6350	CMDS6350	CHE 333	CHEN3330	CHM 533	CHEM5330
CDC 6351	CMDS6351	CHE 334	CHEN3340	CHM 535	CHEM5350
CDC 6390	CMDS6390	CHE 414	CHEN4140	CHM 537	CHEM5370
CDC 6391	CMDS6391	CHE 415	CHEN4150	CHM 669A	CHEM5390
CE 220	CVEN2270	CHE 431	CHEN4310	CHM 669B	CHEM5391
CE 232	CVEN2372	CHE 433	CHEN4330	CIS 231	CPSC2371
CE 320	CVEN3200	CHE 434	CHEN4340	CIS 331	CPSC3310
CE 3290	CVEN3290	CHE 435	CHEN4350	CIS 332	CPSC3320
CE 331	CVEN3310	CHE 436	CHEN4360	CIS 432	CPSC4320
CE 334	CVEN3340	CHE 437	CHEN4370	CIS 432	CPSC5320
CE 335	CVEN3350	CHE 441	CHEN4410	CIS 433	CPSC4330

CIS 434	CPSC4340	COM 3234	COMM3234	CS 4201	COSC4201
CIS 434	CPSC5340	COM 3301	COMM3301	CS 4301	COSC4301
CIS 436	CPSC4360	COM 331	COMM3310	CS 4302	COSC4302
CIS 437	CPSC4370	COM 332	COMM2303	CS 4307	COSC4307
CIS 437	CPSC5370	COM 333	COMM3330	CS 4309	COSC4309
CIS 533	CPSC5330	COM 334	COMM3340	CS 4309	COSC5309
CIS 535	CPSC5350	COM 336	COMM3360	CS 4310	COSC4310
CIS 536	CPSC5360	COM 3361	COMM3361	CS 4310	COSC5308
CJ 1302	CRIJ1301	COM 337	COMM3370	CS 4319	COSC4319
CJ 1306	CFIJ1306	COM 338	COMM3380	CS 4319	COSC5321
CJ 231	CRIJ2328	COM 3381	COMM3381	CS 5100	COSC5100
CJ 232	CRIJ2314	COM 3383	COMM3383	CS 5302	COSC5302
CJ 235	CRIJ2313	COM 339	COMM3390	CS 5310	COSC5310
CJ 236	CRIJ2301	COM 430	COMM4300	CS 5311	COSC5311
CJ 330	CRIJ3300	COM 4301	COMM4301	CS 5312	COSC5312
CJ 331	CRIJ3310	COM 431	COMM4310	CS 5313	COSC5313
CJ 3310	CRIJ3309	COM 432	COMM4320	CS 5318	COSC5318
CJ 332	CRIJ3320	COM 434	COMM4340	CS 5319	COSC5319
CJ 333	CRIJ3330	COM 4341	COMM4341	CS 5320	COSC5320
CJ 338	CRIJ3380	COM 4342	COMM4342	CS 5328	COSC5328
CJ 430	CRIJ4300	COM 435	COMM4350	CS 5330	COSC5330
CJ 431	CRIJ4310	COM 436	COMM4360	CS 5331	COSC5331
CJ 4310	CRIJ4311	COM 4361	COMM4361	CS 5332	COSC5332
CJ 4312	CRIJ4313	COM 437	COMM4370	CS 5333	COSC5333
CJ 432	CRIJ4320	COM 438	COMM4381	CS 5335	COSC5335
CJ 4321	CRIJ4321	COM 4380	COMM4380	CS 5336	COSC5336
CJ 433	CRIJ4330	COM 4383	COMM4383	CS 5339	COSC5339
CJ 435	CRIJ4350	COM 439	COMM4390	CS 5340	COSC5340
CJ 437	CRIJ4370	COM 4395	COMM4395	CS 5341	COSC5341
CJ 531	CRIJ5310	CS 1311	COSC1371	CS 5342	COSC5342
CJ 532	CRIJ5320	CS 1312	COSC1372	CS 5350	COSC5350
CJ 533	CRIJ5330	CS 1321	COSC1373	CS 5369	COSC5369
CJ 534	CRIJ5340	CS 1323	COSC1374	CS 5402	COSC5402
COM 130	COMM1370	CS 2302	COSC2370	CS 669A	COSC5390
COM 131	COMM1315	CS 2303	COSC2371	CS 669B	COSC5391
COM 132	COMM1307	CS 2313	COSC2372	DAN 1240	DANC1270
COM 133	COMM1373	CS 2411	COSC2471	DAN 1251	DANC1247
COM 1360	COMM1360	CS 3301	COSC3301	DAN 1252	DANC1248
COM 141	COMM1471	CS 3302	COSC3302	DAN 1253	DANC2247
COM 231	COMM2311	CS 3304	COSC3304	DAN 1261	DANC1241
COM 232	COMM2372	CS 3306	COSC3306	DAN 1262	DANC1242
COM 233	COMM2373	CS 3308	COSC3308	DAN 1263	DANC2241
COM 234	COMM2374	CS 3321	COSC3321	DAN 1264	DANC2242
COM 235	COMM2341	CS 3324	COSC3324	DAN 127	DANC1222
COM 236	COMM1318	CS 3325	COSC3325	DAN 128	DANC1233
COM 238	COMM2335	CS 3340	COSC3340	DAN 1281	DANC1245
COM 2385	COMM2375	CS 3360	COSC3360	DAN 1282	DANC1246
COM 313	COMM3130	CS 4101	COSC4101	DAN 1283	DANC2245

DAN 129	DANC1210	EE 318	ELEN3108	EGR 5303	ENGR5303
DAN 132	DANC1370	EE 319	ELEN3109	EGR 5305	ENGR5305
DAN 2110	DANC2170	EE 3201	ELEN3201	EGR 5307	ENGR5373
DAN 2221	DANC2270	EE 3305	ELEN3331	EGR 5308	ENGR5308
DAN 2222	DANC2271	EE 331	ELEN3312	EGR 5309	ENGR5309
DAN 2250	DANC2272	EE 332	ELEN3313	EGR 5310	ENGR5310
DAN 2270	DANC2273	EE 333	ELEN3321	EGR 5311	ENGR5311
DAN 2280	DANC2274	EE 3305	ELEN3331	EGR 5313	ENGR5313
DAN 231	DANC2370	EE 336	ELEN3341	EGR 5314	ENGR5314
DAN 233	DANC2371	EE 337	ELEN3371	EGR 5315	ENGR5315
DAN 235	DANC1301	EE 3301	ELEN3381	EGR 5318	ENGR5318
DAN 3301	DANC3301	EE 411	ELEN4101	EGR 5319	ENGR5319
DAN 331	DANC3310	EE 412	ELEN4102	EGR 532	ENGR5383
DAN 335	DANC3350	EE 426	ELEN4206	EGR 5320	ENGR5325
DAN 336	DANC3360	EE 427	ELEN4207	EGR 5321	ENGR5321
DAN 438	DANC4380	EE 4302	ELEN4361	EGR 5323	ENGR5323
DMTH101	DMTH0071	EE 4304	ELEN4304	EGR 5324	ENGR5324
DMTH1301	DMTH0371	EE 4306	ELEN4386	EGR 5326	ENGR5326
DMTH1302	DMTH0372	EE 4307	ELEN4387	EGR 5327	ENGR5327
DRDG101	DRDG0071	EE 4309	ELEN4342	EGR 5328	ENGR5328
DRDG1301	DRDG0371	EE 431	ELEN3322	EGR 5329	ENGR5329
DWRT101	DWRT0071	EE 432	ELEN4323	EGR 533	ENGR5330
DWRT1301	DWRT0371	EE 436	ELEN4351	EGR 5330	ENGR5331
ECO 131	ECON2302	EE 437	ELEN4372	EGR 5331	ENGR5332
ECO 132	ECON2301	EE 438	ELEN4381	EGR 5332	ENGR5333
ECO 233	ECON1301	EE 4391	ELEN4391	EGR 5334	ENGR5334
ECO 331	ECON3310	EE 4392	ELEN4392	EGR 5337	ENGR5337
ECO 332	ECON3320	EGR 111	ENGR1101	EGR 5338	ENGR5338
ECO 333	ECON3330	EGR 114	ENGR1174	EGR 5341	ENGR5341
ECO 334	ECON3340	EGR 130	ENGR1301	EGR 5342	ENGR5342
ECO 335	ECON3350	EGR 223	ENGR2273	EGR 5343	ENGR5343
ECO 336	ECON3306	EGR 230	ENGR2301	EGR 5348	ENGR5348
ECO 3360	ECON3360	EGR 231	ENGR2302	EGR 535	ENGR5352
ECO 337	ECON3370	EGR 233	ENGR2311	EGR 5350	ENGR5351
ECO 339	ECON3390	EGR 234	ENGR2374	EGR 5351	ENGR5344
ECO 431	ECON4310	EGR 236	ENGR2376	EGR 5353	ENGR5353
ECO 4311	ECON4311	EGR 237	ENGR2377	EGR 536	ENGR5360
ECO 4315	ECON4315	EGR 335	ENGR3350	EGR 5360	ENGR5393
ECO 433	ECON4330	EGR 336	ENGR3360	EGR 5361	ENGR5395
ECO 434	ECON4340	EGR 337	ENGR3370	EGR 5362	ENGR5397
ECO 435	ECON4350	EGR 4101	ENGR4101	EGR 5366	ENGR5366
ECO 438	ECON4380	EGR 4201	ENGR4201	EGR 5369	ENGR5369
ECO 530	ECON5300	EGR 4301	ENGR4301	EGR 537	ENGR5370
ECO 535	ECON5350	EGR 436	ENGR4360	EGR 538	ENGR5380
ECO 537	ECON5370	EGR 4361	ENGR4361	EGR 5387	ENGR5387
ECO 538	ECON5380	EGR 5101	ENGR5101	EGR 539	ENGR5389
EE 217	ELEN2107	EGR 5201	ENGR5201	EGR 5390	ENGR5388
EE 2377	ELEN2300	EGR 5301	ENGR5301	EGR 611	ENGR6110

EGR 631	ENGR6310	ENG 339	ENGL3390	ENG 4365	ENGL4365
EGR 6313	ENGR6313	ENG 411	ENGL4110	ENG 4365	ENGL5365
EGR 6314	ENGR6314	ENG 430	ENGL4300	ENG 438	ENGL4380
EGR 632	ENGR6320	ENG 430	ENGL5300	ENG 438	ENGL5381
EGR 6339	ENGR6339	ENG 4311	ENGL4311	ENG 439	ENGL4390
EGR 6340	ENGR6340	ENG 4311	ENGL5316	ENG 439	ENGL5392
EGR 6343	ENGR6343	ENG 4312	ENGL4312	ENG 511	ENGL5110
EGR 6344	ENGR6344	ENG 4312	ENGL5312	ENG 5311	ENGL5311
EGR 6349	ENGR6349	ENG 4314	ENGL4314	ENG 533	ENGL5330
EGR 6359	ENGR6359	ENG 4314	ENGL5315	ENG 535	ENGL5350
EGR 6362	ENGR6394	ENG 4317	ENGL4317	ENG 536	ENGL5360
EGR 6368	ENGR6368	ENG 4317	ENGL5317	ENG 537	ENGL5370
EGR 6369	ENGR6369	ENG 4318	ENGL4318	ENG 538	ENGL5380
EGR 6387	ENGR6387	ENG 4318	ENGL5318	ENG 539	ENGL5385
EGR 6388	ENGR6388	ENG 4319	ENGL4319	ENG 6390	ENGL5390
EGR 6389	ENGR6389	ENG 4319	ENGL5319	ENG 6391	ENGL5391
EGR 661	ENGR6601	ENG 432	ENGL4324	ENG5313A	ENGL5313
EGR 662	ENGR6602	ENG 432	ENGL5324	ENG5313B	ENGL5314
EGR 669A	ENGR5390	ENG 4320	ENGL4320	FBE 3341	FBED3341
EGR 669B	ENGR5391	ENG 4320	ENGL5320	FBE 3344	FBED3344
ENG 131	ENGL1301	ENG 4321	ENGL4321	FBE 3347	FBED3347
ENG 132	ENGL1302	ENG 4321	ENGL5321	FBE 3348	FBED3348
ENG 134	ENGL1374	ENG 4322	ENGL4322	FBE 3349	FBED3349
ENG 1360	ENGL1360	ENG 4322	ENGL5322	FBE 4312	FBED4312
ENG 138	ENGL1378	ENG 4323	ENGL4323	FBE 4313	FBED4313
ENG 139	ENGL1379	ENG 4323	ENGL5323	FBE 4326	FBED4326
ENG 230	ENGL2370	ENG 4326	ENGL4326	FBE 4342	FBED4342
ENG 2310	ENGL2371	ENG 4326	ENGL5326	FBE 4343	FBED4343
ENG 2311	ENGL2331	ENG 4328	ENGL4328	FBE 4344	FBED4344
ENG 2312	ENGL2326	ENG 4328	ENGL5328	FBE 4348	FBED434"
ENG 2313	ENGL2322	ENG 4329	ENGL4329	FCS 111	FCSC1171
ENG 2314	ENGL2374	ENG 4329	ENGL5329	FCS 112	FCSC1172
ENG 2315	ENGL2375	ENG 4333	ENGL4333	FCS 130	FCSC1370
ENG 2316	ENGL2376	ENG 4333	ENGL5333	FCS 1301	FCSC1371
ENG 2317	ENGL2377	ENG 4334	ENGL4334	FCS 1302	FCSC1372
ENG 2360	ENGL2360	ENG 4334	ENGL5334	FCS 1303	FCSC1373
ENG 331	ENGL3310	ENG 4336	ENGL4336	FCS 1304	FCSC1374
ENG 3316	ENGL3316	ENG 4336	ENGL5336	FCS 131	FCSC1315
ENG 332	EN6L3320	ENG 434	ENGL4340	FCS 132	FCSC1328
ENG 3322	ENGL3322	ENG 434	ENGL5340	FCS 133	FCSC1375
ENG 3324	ENGL3324	ENG 4345	ENGL4345	FCS 134	FCSC1376
ENG 3326	ENGL3326	ENG 4345	ENGL5345	FCS 137	FCSC1377
ENG 3321	ENGL3321	ENG 435	ENGL4350	FCS 138	FCSC1322
ENG 334	ENGL3340	ENG 435	ENGL5351	FCS 2103	FCSC2170
ENG 335	ENGL3350	ENG 4355	ENGL4355	FCS 2301	FCSC2371
ENG 336	ENGL3360	ENG 4355	ENGL5355	FCS 2302	FCSC2372
ENG 337	ENGL3370	ENG 4360	ENGL4360	FCS 2304	FCSC2373
ENG 338	ENGL3380	ENG 4360	ENGL5361	FCS 2305	FCSC2374

FCS 2307	FCSC2375	FCS 432	FCSC4320	FCS 532	FCSC5320
FCS 231	FCSC1320	FCS 432	FCSC5326	FCS 533	FCSC5330
FCS 2310	FCSC2376	FCS 4326	FCSC4326	FCS 534	FCSC5340
FCS 2313	FCSC2377	FCS 4327	FCSC4327	FCS 535	FCSC5350
FCS 2314	FCSC2378	FCS 4328	FCSC4328	FCS 5351	FCSC5351
FCS 232	FCSC2379	FCS 433	FCSC4330	FCS 5359	FCSC5359
FCS 2322	FCSC2370	FCS 4332	FCSC4332	FCS 537	FCSC5370
FCS 2323	FCSC2380	FCS 4334	FCSC4334	FCS 538	FCSC5380
FCS 2327	FCSC2381	FCS 4334	FCSC5334	FCS 669A	FCSC5390
FCS 233	FCSC2382	FCS 4337	FCSC4337	FCS 669B	FCSC5391
FCS 2332	FCSC2383	FCS 4337	FCSC5337	FIN 331	FINC3310
FCS 2333	FCSC2384	FCS 434	FCSC4340	FIN 332	FINC3320
FCS 234	FCSC2385	FCS 434	FCSC5327	FIN 336	FINC3306
FCS 235	FCSC2386	FCS 4344	FCSC4344	FIN 431	FINC4310
FCS 237	FCSC2387	FCS 4344	FCSC5344	FIN 432	FINC4320
FCS 239	FCSC2388	FCS 4347	FCSC4347	FIN 433	FINC4330
FCS 330	FCSC3300	FCS 4347	FCSC5347	FIN 436	FINC4306
FCS 3302	FCSC3302	FCS 435	FCSC4350	FIN 439	FINC4390
FCS 3304	FCSC3304	FCS 435	FCSC5328	FIN 530	FINC5300
FCS 3305	FCSC3305	FCS 4357	FCSC4357	FIN 531	FINC5310
FCS 3306	FCSC3306	FCS 4357	FCSC5357	FIN 532	FINC5320
FCS 3307	FCSC3307	FCS 4359	FCSC4359	FRE 131	FREN1311
FCS 3315	FCSC3315	FCS 4360	FCSC4360	FRE 132	FREN1312
FCS 332	FCSC3320	FCS 4360	FCSC5360	FRE 231	FREN2311
FCS 3327	FCSC3327	FCS 4367	FCSC4367	FRE 232	FREN2312
FCS 333	FCSC3330	FCS 4367	FCSC5367	FRE 330	FREN3300
FCS 334	FCSC3340	FCS 437	FCSC4370	FRE 335	FREN3350
FCS 335	FCSC3350	FCS 438	FCSC4380	FRE 336	FREN3360
FCS 336	FCSC3360	FCS 439	FCSC4390	FRE 337	FREN3370
FCS 337	FCSC3370	FCS 439	FCSC5329	FRE 338	FREN3380
FCS 338	FCSC3380	FCS 462	FCSC4620	FRE 339	FREN3390
FCS 339	FCSC3390	FCS 5101	FCSC5101	FRE 431	FREN4310
FCS 411	FCSC4110	FCS 5201	FCSC5201	FRE 433	FREN4330
FCS 430	FCSC4300	FCS 530	FCSC5300	FRE 439	FREN4390
FCS 430	FCSC5321	FCS 5301	FCSC5301	FSC 533	FCSC5330
FCS 4301	FCSC4301	FCS 5304	FCSC5304	GEO 141	GEOL1403
FCS 4305	FCSC4305	FCS 5306	FCSC5306	GEO 142	GEOL1404
FCS 4305	FCSC5322	FCS 5308	FCSC5308	GEO 236	GEOL2376
FCS 4307	FCSC4307	FCS 531	FCSC5310	GEO 237	GEOL2377
FCS 4307	FCSC5323	FCS 5311	FCSC5311	GEO 241	GEOL2471
FCS 4308	FCSC4308	FCS 5312	FCSC5312	GEO 243	GEOL2473
FCS 431	FCSC4310	FCS 5313	FCSC5313	GEO 3101	GEOL3101
FCS 4313	FCSC4313	FCS 5314	FCSC5314	GEO 3102	GEOL3102
FCS 4313	FCSC5324	FCS 5315	FCSC5315	GEO 339	GEOL3390
FCS 4315	FCSC4315	FCS 5316	FCSC5316	GEO 341	GEOL3410
FCS 4317	FCSC4317	FCS 5317	FCSC5317	GEO 342	GEOL3420
FCS 4317	FCSC5325	FCS 5318	FCSC5318	GEO 345	GEOL3450
FCS 4319	FCSC4319	FCS 5319	FCSC5319	GEO 346	GEOL3460

GEO 360	GEOL3600	HIS 4319	HIST5319	IE 4301	INEN4301
GEO 4101	GEOL4101	HIS 432	HIST4324	IE 431	INEN4310
GEO 4201	GEOL4201	HIS 4325	HIST4325	IE 431	INEN5310
GEO 427	GEOL4270	HIS 4325	HIST5325	IE 4315	INEN4315
GEO 428	GEOL4280	HIS 4335	HIST4335	IE 4315	INEN5315
GEO 4301	GEOL4301	HIS 4335	HIST5335	IE 4316	INEN4316
GEO 433	GEOL4330	HIS 4341	HIST4341	IE 432	INEN4320
GEO 436	GEOL4361	HIS 4341	HIST5341	IE 432	INEN5320
GEO 4360	GEOL4360	HIS 4342	HIST4342	IE 434	INEN4340
GEO 437	GEOL4371	HIS 4342	HIST5342	IE 434	INEN5340
GEO 4370	GEOL4370	HIS 435	HIST4350	IE 435	INEN4350
GEO 4380	GEOL4380	HIS 439	HIST4390	IE 435	INEN5350
GEO 439	GEOL4391	HIS 5311	HIST5311	IE 4351	INEN4351
GEO 4390	GEOL4390	HIS 5312	HIST5312	IE 437	INEN4370
GEO 4401	GEOL4401	HIS 532	HIST5320	IE 437	INEN5370
GEO 441	GEOL4410	HIS 534	HIST5340	IE 438	INEN4380
GEO 442	GEOL4420	HIS 537	HIST5370	KIN 132	KINT1301
GEO 445	GEOL4451	HIS 669A	HIST5390	KIN 231	KINT2371
GEO 4450	GEOL4450	HIS 669B	HIST5391	KIN 232	KINT2372
GEO 5301	GEOL5301	HLTH 133	HLTH1373	KIN 234	KINT2374
GEO 532	GEOL5320	HLTH 434	HLTH4340	KIN 236	KINT2376
GER 131	GERM1311	HLTH131	HLTH1306	KIN 237	KINT2377
GER 132	GERM1312	HLTH137	HLTH1370	KIN 238	KINT2378
GER 231	GERM2311	HLTH234	HLTH2374	KIN 332	KINT3320
GER 232	GERM2312	HLTH236	HLTH2376	KIN 333	KINT3330
HIS 131	HIST2321	HLTH238	HLTH2378	KIN 335	KINT3350
HIS 132	HIST2322	HLTH336	HLTH3360	KIN 336	KINT3360
HIS 134	HIST2301	HLTH337	HLTH3370	KIN 337	KINT3370
HIS 231	HIST1301	HLTH430	HLTH4300	KIN 339	KINT3390
HIS 232	HIST1302	HLTH436	HLTH4360	KIN 430	KINT4300
HIS 233	HIST2373	HLTH437	HLTH4370	KIN 4301	KINT4301
HIS 234	HIST2374	HLTH446	HLTH4460	KIN 431	KINT4310
HIS 2360	HIST1361	HON 4360	HNRS4360	KIN 433	KINT4330
HIS 2361	HIST1362	HON 4361	HNRS4361	KIN 436	KINT4360
HIS 237	HIST2377	HUM 130	HUMA1315	KIN 438	KINT4380
HIS 2660	HIST2660	HUM 1360	HUMA1360	KIN 462	KINT4620
HIS 339	HIST3390	HUM 4361	HUMA4361	KIN 530	KINT5300
HIS 430	HIST4300	IE 311	INEN3110	KIN 531	KINT5310
HIS 431	HIST4310	IE 330	INEN3300	KIN 5311	KINT5311
HIS 4311	HIST4311	IE 3301	INEN3301	KIN 5312	KINT5312
HIS 4314	HIST4314	IE 3312	INEN3312	KIN 532	KINT5320
HIS 4315	HIST4315	IE 3322	INEN3322	KIN 533	KINT5330
HIS 4315	HIST5315	IE 333	INEN3330	KIN 534	KINT5340
HIS 4316	HIST4316	IE 336	INEN3360	KIN 535	KINT5350
HIS 4316	HIST5316	IE 338	INEN3380	KIN 536	KINT5360
HIS 4318	HIST4318	IE 339	INEN3390	KIN 537	KINT5370
HIS 4318	HIST5318	IE 430	INEN4300	KIN 538	KINT5380
HIS 4319	HIST4319	IE 430	INEN5300	KIN 669A	KINT5390

KIN 669B	KINT5391	MGT 532	MGMT5330	MLT 537	MULT5370
KINA129	KINA1270	MGT 533	MGMT5340	MLT 538	MULT5380
KINA2201	KINA2271	MGT 538	MGMT5380	MLT 539	MULT5390
KINA2203	KINA2273	MGT 539	MGMT5390	MTH 1331	MATH1335
KINA2205	KINA2275	MIS 133	MISY1373	MTH 1334	MATH1314
KINA2206	KINA2255	MIS 334	MISY3340	MTH 1335	MATH2312
KINA2207	KINA2277	MIS 335	MISY3350	MTH 1336	MATH1336
KINA2208	KINA2278	MIS 337	MISY3370	MTH 1337	MATH1316
KINA2209	KINA2279	MIS 434	MISY4340	MTH 134	MATH1324
ME 321	MEEN3210	MIS 436	MISY4360	MTH 1341	MATH1325
ME 330	MEEN3300	MIS 437	MISY4370	MTH 1345	MATH2305
ME 331	MEEN3310	MIS 438	MISY4380	MTH 1460	MATH1460
ME 3311	MEEN3311	MIS 439	MISY4390	MTH 148	MATH2413
ME 332	MEEN3320	MIS 534	MISY5340	MTH 149	MATH2414
ME 334	MEEN3340	MIS 536	MISY5360	MTH 233	MATH2318
ME 335	MEEN3350	MIS 539	MISY5390	MTH 234	MATH1342
ME 338	MEEN3380	MKT 331	MKTG3310	MTH 236	MATH2376
ME 411	MEEN4110	MKT 332	MKTG3320	MTH 237	MATH2377
ME 431	MEEN4310	MKT 333	MKTG3330	MTH 241	MATH2415
ME 4313	MEEN4313	MKT 334	MKTG3340	MTH 330	MATH3300
ME 4316	MEEN4316	MKT 431	MKTG4310	MTH 3313	MATH3313
ME 4317	MEEN4317	MKT 432	MKTG4320	MTH 3315	MATH3315
ME 4319	MEEN4319	MKT 433	MKTG4330	MTH 3317	MATH3317
ME 432	MEEN4320	MKT 436	MKTG4360	MTH 3321	MATH3321
ME 432	MEEN5320	MKT 437	MKTG4370	MTH 333	MATH3330
ME 4323	MEEN4323	MKT 438	MKTG4380	MTH 3345	MATH3345
ME 435	MEEN4350	MKT 530	MKTG5300	MTH 335	MATH3350
ME 435	MEEN5350	MKT 531	MKTG5310	MTH 3370	MATH3370
ME 438	MEEN4380	MKT 533	MKTG5330	MTH 338	MATH3380
ME 440	MEEN4400	MKT 534	MKTG5340	MTH 3401	MATH3401
ME 540	MEEN5400	MLB 1101	MULB1170	MTH 431	MATH4310
MED 5310	MUED5310	MLB 1102	MULB1171	MTH 431	MATH5350
MED 532	MUED5320	MLB 1104	MULB1172	MTH 4315	MATH4315
MED 533	MUED5330	MLB 1120	MULB1173	MTH 4315	MATH5315
MED 534	MUED5340	MLB 114	MULB1174	MTH 4316	MATH4316
MED 537	MUED5370	MLB 1140	MULB1175	MTH 4316	MATH5316
MED 539	MUED5390	MLB 1143	MULB1176	MTH 433	MATH4330
MGT 331	MGMT3310	MLB 1150	MULB1177	MTH 433	MATH5330
MGT 332	MGMT3320	MLB 117	MULB1178	MTH 4331	MATH4331
MGT 333	MGMT3330	MLB 118	MULB1179	MTH 4331	MATH5351
MGT 431	MGMT4310	MLB 124	MULB 1271	MTH 4331	MATH4331
MGT 432	MGMT4320	MLB 210	MULB1157	MTH 5303	MATH5303
MGT 433	MGMT4330	MLB 413	MULB4130	MTH 5304	MATH5304
MGT 434	MGMT4340	MLT 121	MULT1208	MTH 5308	MATH5308
MGT 437	MGMT4370	MLT 222	MULT1209	MTH 531	MATH5310
MGT 439	MGMT4390	MLT 333	MULT3330	MTH 5310	MATH5311
MGT 530	MGMT5310	MLT 334	MULT3340	MTH 5311	MATH5312
MGT 531	MGMT5320	MLT 536	MULT5360	MTH 532	MATH5320
				MTH 5331	MATH5331

MTH 5335	MATH5335	NUR 331	NURS3310	PED 4305	PEDG4305
MTH 534	MATH5340	NUR 353	NURS3530	PED 4305	PEDG5305
MTH 537	MATH5370	NUR 355	NURS3550	PED 4306	PEDG4306
MTH 669A	MATH5390	NUR 382	NURS3820	PED 4306	PEDG5312
MTH 669B	MATHS391	NUR 430	NURS4300	PED 4307	PEDG4307
MTY 131	MUTY1370	NUR 433	NURS4330	PED 4307	PEDG5307
MTY 132	MUTY1311	NUR 481	NURS4810	PED 4308	PEDG4308
MTY 133	MUTY1312	NUR 491	NURS4910	PED 4308	PEDG5308
MTY 232	MUTY2311	OAS 132	OFAD1312	PED 4309	PEDG4309
MTY 233	MUTY2312	OAS 230	OFAD1311	PED 4309	PEDG5309
MTY 321	MUTY3210	OAS 231	OFAD1301	PED 431	PEDG4310
MTY 322	MUTY3220	OAS 232	OFAD1302	PED 431	PEDG5313
MTY 421	MUTY4210	OAS 233	OFAD2301	PED 4310	PEDG4311
MTY 422	MUTY4220	OAS 331	OFAD3310	PED 4310	PEDG5314
MTY 535	MUTY5350	OAS 335	OFAD3350	PED 4331	PEDG4331
MTY 536	MUTY5360	OAS 336	OFAD3360	PED 4331	PEDG5331
MTY 537	MUTY5370	OAS 337	OFAD3370	PED 434	PEDG4340
MUS 110	MUSI1170	OAS 338	OFAD3380	PED 434	PEDG5315
MUS 130	MUSI1306	OAS 431	OFAD4310	PED 4361	PEDG4361
MUS 131	MUSI1371	OAS 434	OFAD4340	PED 438	PEDG4380
MUS 227	MUSI2277	OAS 439	OFAD4390	PED 438	PEDG5316
MUS 311	NMSI3110	OAS 530	OFAD5300	PED 439	PEDG4390
MUS 312	MUSI3120	OAS 539	OFAD5390	PED 439	PEDG5317
MUS 313	MUSI3130	PED 1201	PEDG1271	PED 462	PEDG4620
MUS 314	MUSI3140	PED 2301	PEDG2371	PED 463	PEDG4630
MUS 315	MUSI3150	PED 2302	PEDG2372	PED 465	PEDG4650
MUS 327	MUSI3270	PED 2310	PEDG2373	PED 531	PEDG5310
MUS 331	MUSI3310	PED 232	PEDG2374	PED 5311	PEDG5311
MUS 332	MUSI3320	PED 3304	PEDG3304	PED 532	PEDG5320
MUS 335	MUSI3350	PED 3305	PEDG3305	PED 5320	PEDG5321
MUS 336	MUSI3360	PED 331	PEDG3310	PED 5322	PEDG5322
MUS 337	MUSI3370	PED 332	PEDG3320	PED 5323	PEDG5323
MUS 338	MUSI3380	PED 3326	PEDG3326	PED 5324	PEDG5324
MUS 411	MUSI4110	PED 334	PEDG3340	PED 5325	PEDG5325
MUS 412	MUSI4120	PED 336	PEDG3360	PED 5334	PEDG5334
MUS 430	MUSI4300	PED 337	PEDG3370	PED 534	PEDG5340
MUS 431	MUSI4310	PED 338	PEDG3380	PED 5340	PEDG5341
MUS 432	MUSI4320	PED 339	PEDG3390	PED 535	PEDG5350
MUS 530	MUSI5300	PED 4300	PEDG4300	PED 5351	PEDG5351
MUS 531	MUSI5310	PED 4300	PEDG5300	PED 5352	PEDG5352
MUS 532	MUSI5320	PED 4301	PEDG4301	PED 5355	PEDG5355
MUS 669A	MUSI5390	PED 4301	PEDG5301	PED 5356	PEDG5356
MUS 669B	MUSI5391	PED 4302	PEDG4302	PED 5357	PEDG5357
NUR 221	NURS2271	PED 4302	PEDG5302	PED 5358	PEDG5358
NUR 261	NURS2671	PED 4303	PEDG4303	PED 5359	PEDG5359
NUR 262	NURS2672	PED 4303	PEDG5303	PED 536	PEDG5306
NUR 292	NURS2972	PED 4304	PEDG4304	PED 5360	PEDG5360
NUR 328	NURS3280	PED 4304	PEDG5304	PED 5361	PEDG5361

PED 5362	PEDG5362	PSY 410	PSYC4100	SOC 435	SOCI4350
PHY 247	PHYS2425	PSY 430	PSYC4300	SOC 438	SOC14380
PHY 248	PHYS2426	PSY 4301	PSYC4301	SOC 439	SOCI4390
PHY 331	PHYS3310	PSY 431	PSYC4310	SPA 131	SPAN1313
PHY 335	PHYS3350	PSY 432	PSYC4320	SPA 132	SPAN1314
PHY 338	PHYS3380	PSY 436	PSYC4360	SPA 231	SPAN2311
PHY 339	PHYS3390	PSY 438	PSYC4380	SPA 232	SPAN2312
PHY 343	PHYS3430	PSY 443	PSYC4430	SPA 330	SPAN3300
PHY 345	PHYS3450	PSY 512	PSYC5120	SPA 331	SPAN3310
PHY 346	PHYS3460	PSY 514	PSYC5140	SPA 332	SPAN3320
PHY 4101	PHYS4101	PSY 530	PSYC5300	SPA 333	SPAN3330
PHY 4201	PHYS4201	PSY 531	PSYC5301	SPA 334	SPAN3340
PHY 421	PHYS4210	PSY 5310	PSYC5310	SPA 335	SPAN3350
PHY 422	PHYS4220	PSY 5311	PSYC5311	SPA 338	SPAN3380
PHY 4301	PHYS4301	PSY 5312	PSYC5312	SPA 339	SPAN3390
PHY 432	PHYS4320	PSY 5313	PSYC5313	SPA 432	SPAN4320
PHY 448	PHYS4480	PSY 532	PSYC5302	SPA 433	SPAN4330
POLS131	POLS2304	PSY 5320	PSYC5320	SPA 436	SPAN4360
POLS231	POLS2301	PSY 5321	PSYC5321	SPA 438	SPAN4380
POLS232	POLS2302	PSY 5322	PSYC5322	SWK 131	SOWK2361
POLS321	POLS3210	PSY 5323	PSYC5323	SWK 231	SOWK2371
POLS322	POLS3220	PSY 533	PSYC5303	SWK 330	SOWK3300
POLS323	POLS3230	PSY 5330	PSYC5330	SWK 331	SOWK3310
POLS331	POLS3310	PSY 5331	PSYC5331	SWK 332	SOWK3320
POLS332	POLS3320	PSY 534	PSYC5340	SWK 333	SOWK3330
POLS334	POLS3340	PSY 535	PSYC5350	SWK 334	SOWK3340
POLS335	POLS3350	PSY 669A	PSYC5390	SWK 335	SOWK3350
POLS337	POLS3370	PSY 669B	PSYC5391	SWK 430	SOWK4300
POLS339	POLS3390	SOC 131	SOCI1301	SWK 432	SOWK4320
POLS430	POLS4300	SOC 132	SOCI1306	SWK 4321	SOWK4321
POLS432	POLS4320	SOC 233	SOC12301	SWK 4324	SOWK4324
POLS433	POLS4330	SOC 235	SOCI2375	SWK 438	SOWK4380
POLS434	POLS4340	SOC 331	SOC13310	THE 130	THEA1370
POLS435	POLS4350	SOC 3311	SOCI3311	THE 131	THEA1310
POLS437	POLS4370	SOC 332	SOC13320	THE 1311	THEA2336
POLS439	POLS4390	SOC 333	SOCI3330	THE 132	THEA1330
POLS532	POLS5320	SOC 335	SOCI3350	THE 135	THEA1341
POLS535	POLS5350	SOC 336	SOCI3306	THE 137	THEA1351
PSY 131	PSYC2301	SOC 3360	SOCI3360	THE 230	THEA2370
PSY 234	PSYC2308	SOC 337	SOCI3370	THE 231	THEA2371
PSY 237	PSYC2376	SOC 338	SOCI3380	THE 232	THEA2372
PSY 241	PSYC2471	SOC 339	SOC13390	THE 235	THEA2375
PSY 331	PSYC3310	SOC 411	SOCI4110	THE 237	THEA1352
PSY 332	PSYC3320	SOC 430	SOCI4300	THE 331	THEA3310
PSY 333	PSYC3330	SOC 4301	SOCI4301	THE 332	THEA3320
PSY 334	PSYC3340	SOC 431	SOC14310	THE 333	THEA3330
PSY 336	PSYC3360	SOC 432	SOCI4320	THE 336	THEA3361
PSY 342	PSYC3420	SOC 434	SOC14340	THE 3360	THEA3360

THE 337 THEA3370
THE 338 THEA3380
THE 339 TBEA3390
THE 430 THEA4300
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THE 439 THEA5399
THE 5325 THEA5325
THE 533 THEA5330
THE 5350 THEA5350
THE 669A THEA5390
THE 669B THEA5391

Directory of Personnel 2004-2006

Texas State University System Board of Regents

Alan W. Dreeben, Chairman (2007).....	<i>San Antonio</i>
Kent M. Adams, Vice Chairman (2007).....	<i>Beaumont</i>
Patricia Diaz Dennis (2005)	<i>San Antonio</i>
John E. Dudley (2009)	<i>Comanche</i>
Dionicio "Don" Flores (2005)	<i>El Paso</i>
Bernard C. "Bernie" Francis (2009)	<i>Carrollton</i>
James A. "Jimmy" Hayley (2005)	<i>Texas City</i>
Nancy R. Neal (2003)	<i>Lubbock</i>
Pollyanna A. Stephens (2007)	<i>San Angelo</i>

Lamar G. Urbanovsky, Chancellor

University Administration

- James M. Simmons, *Ed.D., President*
- Norman Bellard, *B.B.A., Assistant Vice President for Student Affairs*
- W. Brock Brentlinger, *Ph.D., Assistant to the President*
- Stephen Doblin, *Ph.D., Executive Vice President for Academic Affairs*
- Mike Ferguson, *B.B.A., C.P.A., Vice President for Finance and Operations*
- Barry W. Johnson, *Ed.D., Vice President for Student Affairs*
- Camille Mouton, *B.B.A., Executive Director for University Advancement*
- James Rackley, *M.A.S., C.P.A., Assistant Vice President for Finance*
- Kevin B. Smith, *Ph.D., Associate Vice President for Academic Affairs*
- Billy Tubbs, *B.S., Director of Athletics*
- Cliff E. Woodruff, *B.B.A., M.S., Assistant Vice President for Information Systems*

Academic Administration

- Baum, Christina, *Ed.D., Dean of Library Services*
- Bothel, Richard, *Ed.D., Executive Director, Continuing and Distance Education*
- Bradley, Jerry, *Ph.D., Associate Vice President for Research and
Dean of Graduate Studies*
- Capps, Keith, *M.A., Registrar*
- Hopper, Jack R., *Dean, College of Engineering*
- Hunt, Madelyn, *Dr.P.H., Executive Director, Center for General Studies*
- Nichols, Brenda S., *D.N.Sc. Dean, College of Arts and Sciences*
- Schultz, Russ A., *D.M.A., Dean, College of Fine Arts and Communication*
- Venta, Enrique R., *Ph.D., Dean, College of Business*
- Westerfield, R. Carl, *Ph.D., Dean, College of Education and Human Development*

Principal Administrative Staff

- Aiken, John, *Director, Montagne Center*
- Allen, Kim, *Director; Data, Voice and Video Networks*
- Arnold, Lloyd E., *Director, Small Business Development Center*

Baker, Twila, *Director, Internal Audit*
Beverley, George, *Station Manager, KVLU-FM Radio*
Birdwell, Donna, *Director, Honors Program*
Blaisdell, Frank, *Director, Parking Office*
Carey, Donald, *Director, Developmental Studies and Learning Skills*
Cumbaa, Norma, *Director, Veterans Affairs*
Drane, Sandra, *Coordinator, International Student Services*
Droddy, Frances, *Interim Director, Early Childhood Development Center*
Fontenot, Dale, *Chief, University Police*
Gagné, Mary, *Director, Texas Academy of Leadership in the Humanities*
Gallien, Melissa, *Director, Recruitment and Scholarships*
Glover, Raymond, *Director, Academic Computing Services*
Hawes, Sarah, *Coordinator, Advising Center, College of Business*
Hunter, Robert, *Director, Enrollment Management*
Koetter, Linda, *Director, Central Computing*
Lahair, Jim, *Director, Food Services*
Lokensgard, Lynne L., *Director, Dishman Art Museum*
Martin, Quincy, *Counselor, Testing and Career Services*
McCaig, Gerald, *Director, Physical Plant*
Perkins, Howard, *Director, Student Publications*
Price, Donald, *Director, Institutional Research and Reporting*
Richter, Shellye, *Director, Administrative Systems*
Rowley, Jill, *Director, Student Financial Aid*
Russell, JoAnn, *Director, Human Resources*
Rush, James, *Director of Academic Services*
Sattler, Brian, *Director of Public Relations*
Simpson, Art, *Director, Recreational Sports*
Spears, W. Mike, *Director, Internal Services/Printing*
Thomas, Karen, *Director, Setzer Student Center*
Trahan, Callie, *Coordinator, Services for Students with Disabilities*
Trammell, Janice, *Director, Development*
Waddill, Russell A., *Director, Institute for Entrepreneurial Studies*
Weiss, Scott, *Director of Bands*
Young, Fay, *Director, Microcomputer Support and Services*
Zabala, Juan, *Director, Alumni Affairs*
Zeek, Paul, *Associate Athletic Director*

Faculty 2002-2004

The following list reflects the status of the Lamar University faculty as of Fall 1999. The date after each name is the academic year of first service to the University and does not necessarily imply continuous service.

Allen, Charles L., 1979, *Professor of Economics*
 B.A., East Texas State University; M.A., Ph.D., University of Arkansas
Allen, Virginia M., 1990, *Assistant Professor, Library Systems Coordinator*
 B.A., University of Missouri, Kansas; M.L.S., Emporia State University
Altemose, John R., Jr., 1973, *Professor of Criminal Justice; Director, Master's of Applied Criminology Program*
 B.A., Davidson College; M.Ed., Lamar University; M.A., Ph.D., Sam Houston State University; M.R.E., University of St. Thomas

- Anderson, Adrian N.**, 1967, *Professor of History*
B.S., M.A., Ph.D., Texas Tech University
- Andreev, Valentin V.**, 1990, *Assistant Professor of Mathematics*
B.M., M.M., University of Sofia; Ph.D., University of Michigan
- Andrews, Jean F.**, 1988, *Professor of Deaf Education*
B.A., Catholic University of America; M.Ed., Western Maryland College; Ph.D., University of Illinois
- Asteris, Mark M.**, 1985, *Associate Professor; Media Services Coordinator*
B.A., King's College; M.L.S., Villanova University
- Aung, Kendrick**, 2001, *Assistant Professor of Mechanical Engineering*
B.S., University of Rangoon, Burma; M.S., Asian Institute of Technology, Bangkok, Thailand; Ph.D., University of Michigan at Ann Arbor
- Autrey, Alan**, 2003, *Lecturer in History*
B.A., Baylor University; M.A., Ohio State University
- Babin, L. Randolph**, 1968, *Regents' Professor of Music and Chair, Department of Music, Theatre and Dance*
B.M.Ed., M.M.Ed., Ph.D., Louisiana State University
- Bacdayan, Andrew**, 2001, *Professor of Economics; Director, Landes Center for Economic Education*
B.S., University of Phillipines; M.S., Michigan State University; Ph.D., Utah State University
- Bahrim, Bogdana**, 2001, *Assistant Professor of Physics*
M.S., University of Bucharest, Romania; Ph.D., Université de Paris Sud, France
- Bahrim, Cristian**, 2001, *Visiting Assistant Professor of Physics*
M.S., University of Bucharest, Romania; Ph.D., Université de Paris Sud, France
- Baker, B. Joanne**, 1981, *Associate Professor of Mathematics*
B.A., Lamar University; M.A., Ph.D., University of Texas at Austin
- Baker, Mary Alice**, 1969, *Professor of Communication*
B.S., M.A., University of Oklahoma; Ph.D., Purdue University
- Bandyopadhyay, Kakoli**, 1998, *Associate Professor of Management Information Systems*
B.Eng., Jadavpur University; M.A., University of Alabama; Ph.D. University of Texas at Arlington
- Bandyopadhyay, Soumava**, 1992, *Professor of Marketing*
B.S., Jadavpur University; Ph.D., University of Alabama
- Barker, Constance J. (CJ)**, 2001, *Assistant Professor Audiology*
B.A., M.A., Western Washington University; Ph.D., University of Florida
- Barnes, Cynthia**, 1982, *Professor of Office Administration and Management Information Systems*
B.S., Howard Payne University; M.Ed., Texas Tech University; Ed.D., North Texas State University
- Barnett, Bradley A.**, 1994, *Instructor in Communication*
B.A., Moorehead State University; M.A., Stephen F. Austin State University
- Barton, Joel E. III**, 1987, *Professor of Health and Kinesiology*
B.S., M.Ed., Ph.D., Texas A&M University
- Bean, Wendell C.**, 1968, *Professor of Electrical and Nuclear Engineering*
B.A., B.S., Lamar University; M.S., Ph.D., University of Pittsburgh; Registered Professional Engineer
- Bell, Walter F.**, 2000, *Assistant Professor, Reference Librarian*
B.S., M.A., Iowa State University; M.A., Ph.D., University of Iowa
- Bernazzani, Paul**, 2003, *Assistant Professor of Chemistry*
B.S., Université de Montreal; M.S., Université de Quebec – Montreal; Ph.D., Université de Quebec – Trois-Rivieres
- Beyle, Andrey**, 2003, *Visiting Associate Professor of Civil Engineering*
Dr. of Eng. Sc., Institute of Polymer Mechanics; Ph.D., Technical University of Riga, USSR

- Birdwell, Donna**, 1984, *Professor of Anthropology; Director, Honors Program*
B.A., M.A., Ph.D., Southern Methodist University
- Blaylock, Charles Alan**, 2001, *Assistant Professor of Finance*
A.A., Florida College; B.S., Delta State University; M.B.A., M.S., Mississippi State University
- Boatwright, J. Douglas**, 1986, *Professor of Health and Kinesiology; Coordinator, Academic Programs*
B.S., University of Alabama at Birmingham; M.S., Ph.D., Louisiana State University
- Boone, Rebecca**, 2002, *Assistant Professor of History*
B.A., University of Alabama, M.A., University of South Alabama; Ph.D., Rutgers University
- Bowen, H. Ferrel**, 2002, *Visiting Assistant Professor of Chemistry*
B.S., University of Alabama in Birmingham; Ph.D., University of Houston
- Bradley, Jerry W.**, 2001, *Professor of English; Associate Vice President for Research; Dean, Graduate Studies*
B.A., Midwestern University; M.A., Ph.D., Texas Christian University
- Brannan, Sandra**, 1997, *Assistant Professor in Nursing*
B.S.N., University of Texas Medical Branch-Galveston; M.S.N., University of Texas Health Science Center at Houston; Registered Nurse
- Brentlinger, W. Brock**, 1969, *Professor of Communication, Assistant to the President*
B.A., Greenville College; M.A., Indiana State University; Ph.D., University of Illinois
- Brown, Thomas F.**, 2001, *Instructor in Sociology*
B.A., University of California, Santa Cruz; M.A., Ph.D., John Hopkins University
- Brust, Melvin F.**, 1978, *Regents' Professor of Finance*
B.S.E.E., M.S.E.E., University of Texas; Ph.D., North Texas State University; Registered Professional Engineer
- Buck, Janiece T.**, 2001, *Associate Professor of Educational Administration*
B.S., M.Ed., Stephen F. Austin State University; Ph.D. University of Texas at Austin
- Bumpus, Donna**, 1988, *Assistant Professor of Nursing*
B.S.N., Colorado Women's College; M.S.N., Vanderbilt University; Registered Nurse, Certified Enterostomal Therapy Specialist
- Cammack, James E.**, 2001, *Instructor in Management Information Systems*
B.B.A., M.B.A., Lamar University
- Cancel, Edwin**, 2003, *Instructor in Deaf Education*
A.A., Santa Fe Community College; B.A., Highlands University; M.S., Lamar University
- Carey, Holly Romero**, 1997, *Lecturer in English*
B.A., Lamar University; M.A., New Mexico State University
- Carroll, David J.**, 1975, *Assistant Professor; Cataloging Coordinator*
B.A., Kansas State University; M.L.S., University of Denver
- Carroll, John M.**, 1972, *Regents' Professor of History*
B.A., Brown University; M.A., Providence College; Ph.D., University of Kentucky
- Carter, Keith D.**, 1989, *Walles Chair in Visual and Performing Arts and University Professor of Art*
B.B.A., Lamar University
- Castillon, Catalina T.**, 1991, *Instructor in Spanish*
J.D., Universidad de Sevilla; M.A., University of Massachusetts-Amherst
- Castle, David S.**, 1985, *Professor of Political Science*
B.A., M.A., Marshall University; Ph.D., University of Rochester
- Cavaliere, Frank J.**, 1985, *Professor of Business Law*
B.A., Brooklyn College; B.B.A., Lamar University; J.D., University of Texas School of Law
- Cavallini, Maria Felicia**, 2002, *Assistant Professor of Professional Pedagogy*
B.A., Rice University; M.A., University of Texas; Ed.D., University of Houston
- Chalambaga, Kimberly**, 1994, *Assistant Professor of Family and Consumer Sciences*
B.S., Central Michigan University; M.A., Michigan State University; Ph.D., Kansas State University
- Chalambaga, Michael**, 1990, *Adjunct Instructor in Nursing; Director, Infomatics*
A.S., Odessa College; B.S., B.B.A., University of Texas Permian Basin

- Chen, Daniel Hao**, 1982, *Professor of Chemical Engineering*
B.S., National Cheng-Kung University; M.S., National Taiwan University; Ph.D., Oklahoma State University; Registered Professional Engineer
- Chen, Julie J.**, 1989, *Lecturer in English*
B.M., M.M., Lamar University
- Chilek, Daniel R.**, 2001, *Assistant Professor of Health and Kinesiology*
B.S., M.S., Lamar University; Ph.D., Texas A&M University
- Chiou, Paul**, 1988, *Professor of Mathematics*
B.S., National Chung Hsing University; M.A., Ph.D., University of Texas
- Choi, Jai-Young**, 1982, *Professor of Economics*
B.A., Yonsei University; M.A., University of Kansas; Ph.D., University of Oklahoma
- Christensen, Ana B.**, 1999, *Assistant Professor of Biology*
A.S., Richard Bland College; B.S., M.A., College of William and Mary; Ph.D., Clemson University
- Chu, Hsing-wei**, 1979, *Professor of Industrial Engineering*
B.S., Tunghai University; M.S., Asian Institute of Technology; Ph.D., University of Texas; Registered Professional Engineer
- Clark, Warren III**, 1994, *Lecturer in Health and Kinesiology, Head Track Coach*
B.S., M.S., Lamar University
- Cocke, David, L.**, 1989, *Jack M. Gill Professor of Chemistry and Research Professor in Chemical Engineering*
B.S., University of Texas; M.S., Lamar University; Ph.D., Texas A&M University
- Commander, Emily Sue**, 1985, *Lecturer in Developmental Mathematics*
B.S., M.S., Lamar University
- Cooper, Roger W.**, 1985, *Professor of Geology*
B.A., University of South Dakota; M.S., University of Wisconsin-Madison; Ph.D., University of Minnesota-Minneapolis
- Coppin, Charles**, 2003, *Associate Professor and Chair of Mathematics*
B.S., Southwestern University; M.S. and Ph.D., The University of Texas at Austin
- Corder, Paul Ray**, 1987, *Professor of Mechanical Engineering*
B.S.M.E., M.S.M.E., Ph.D., Texas A&M University; Registered Professional Engineer
- Coryell, Christine M.**, 1999, *Instructor in Professional Pedagogy*
B.S., M.Ed., Lamar University
- Craig, Brian N.**, 2001, *Assistant Professor of Industrial Engineering*
B.S., M.S., Ph.D., Texas A&M University
- Crawford, Carolyn**, *Associate Professor of Educational Leadership and Chair, Department of Educational Leadership*
B.A., M.Ed., Lamar University; Ph.D. Texas A&M University
- Crawford, Ruth**, 2002, *Assistant Professor of Professional Pedagogy*
B.S., M.S., East Texas State University; Ph.D., Texas A&M University
- Culbertson, Robert M., Jr.**, 1974, *Professor of Music*
B.M., M.M., Northern Illinois University; D.M.A., University of Texas
- Curl, Eileen Deges**, 2002, *Professor of Nursing and Chair, Department of Nursing*
B.S.N., Marymount College of Kansas; M.S., University of Colorado; Ph.D., University of Texas at Austin; Registered Nurse
- Daigrepoint, Lloyd M.**, 1981, *Professor of English*
B.A., M.A., Ph.D., Louisiana State University
- Dahm, Molly**, 1996, *Instructor in Family and Consumer Sciences*
B.A., University of Georgia; B.S., M.S., Florida International University
- Daniel, Bobby Dale**, 1998, *Assistant Professor of Mathematics*
B.S., M.S., Stephen F. Austin University; Ph.D., Texas A&M University
- Davis, Terri B.**, 1996, *Assistant Professor of Political Science*
B.S., M.A., University of Texas at Tyler; Ph.D., University of Texas at Austin

- Dawkins, Paul**, 1997, *Assistant Professor of Mathematics*
B.S., M.S., Mechanical Engineering; Ph.D., Mathematics, University of Nebraska
- deVillier, Anita**, 1996, *Instructor in Family and Consumer Sciences*
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B.S., M.S., Auburn University
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B.A., Black Hills State University; M.F.A., Washington University, St. Louis
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Robert J. Barnes, Professor of English	1989
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Margaret D. Cameron, Professor of Chemistry	1990
Dewey Robert Carlin, Jr., Associate Professor of Electrical Engineering	2001
Betty Coody, Professor of Education	1987
Edwin A. Eads, Professor of Chemistry	1985
Robert L. Frazier, Professor of Criminal Justice	2002
Norma S. Hall, Professor of Business	1988
Belle M. Holm, Professor of Health and Physical Education	1987
Richard W. Jones, Professor of Accounting	2002
C. D. Kirksey, Professor of Business	1988
William H. Matthews, III, Professor of Geology	1985
Jerry A. Newman, Professor of Art	1999
Robert Olson, Professor of English	1985
Robert G. O'Neill, Associate Professor of Art	1995
William Pampe, Professor of Geology	1989
James B. Stevens, Professor of Geology	2003
JoAnn Stiles, Associate Professor of History	2002

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