

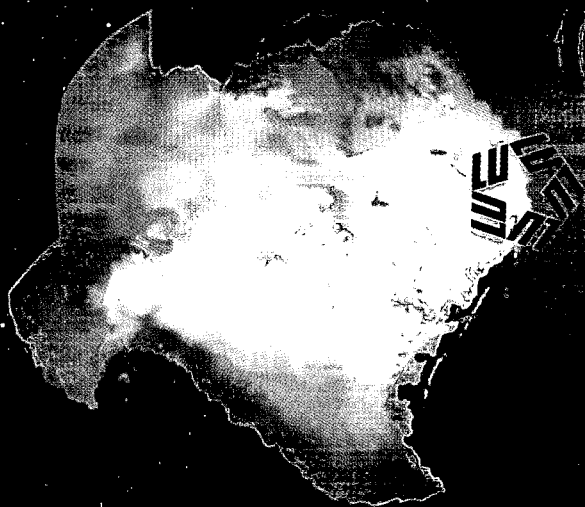


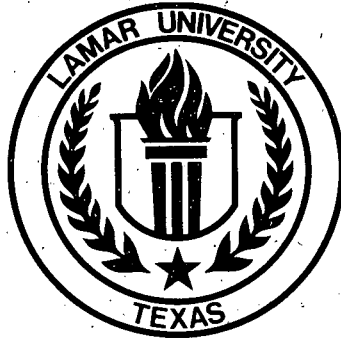
# LAMAR

## UNIVERSITY

A MEMBER OF THE TEXAS STATE UNIVERSITY SYSTEM

### **A Step Toward The Future** **1998-2000 General Catalog**





## LAMAR UNIVERSITY

### 1998-2000 Catalog • Volume 44 Number 1

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Forty-fourth catalog issue with announcements for 1998-2000.

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.**

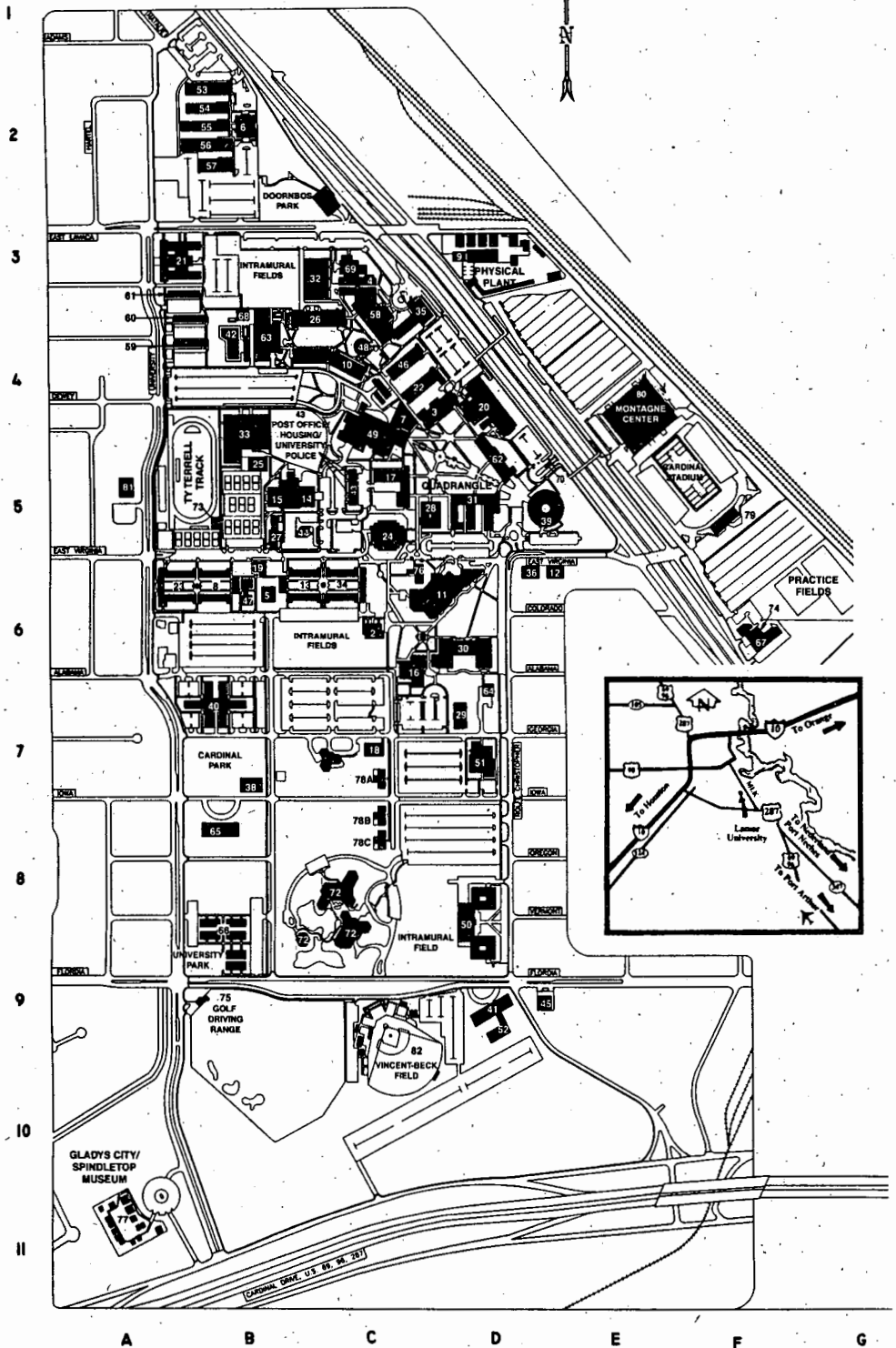
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Catalog of Lamar University (USPS 074-420).

Third class postage paid at Beaumont, Texas 77710.

**LAMAR UNIVERSITY**



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# 1998-99 Calendar

## Fall Semester – 1998

### August 1998

- 18 Residence halls open at 1:00 p.m.  
Dining hall opens at 4:30 p.m.
- 20 Payment Day
- 21 Registration
- 24 Classes Begin  
Schedule revisions-late registration **with penalty fee**
- 25 Last day for schedule revisions and/or late registration  
**with penalty fee**
- 26 Applications for December 1998 graduation begin

### AUGUST

S	M	T	W	T	F	S
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2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
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30	31					

### September 1998

- 7 Labor Day-NO CLASSES
- 9 Twelfth Class Day

### SEPTEMBER

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
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20	21	22	23	24	25	26
27	28	29	30			

### October 1998

- 2 Last day to drop or withdraw without academic penalty  
Last day to petition for "no grade"
- 5 Last day to apply for December graduation  
(graduate students only)
- 30 Last day to apply for December graduation  
(undergraduate students)

### OCTOBER

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

### November 1998

- 9 Last day to pay for diploma, cap, and gown
- 12 Last day to drop and withdraw
- 16 Registration for Spring semester begins
- 25 Thanksgiving recess begins at 10:00 p.m.  
Dining halls close and Residence halls close at 6:00 p.m.
- 29 Residence halls open at 1:00 p.m.  
Dining hall opens at 4:30 p.m.
- 30 Classes resume at 7:00 a.m.

### NOVEMBER

S	M	T	W	T	F	S
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

### December 1998

- 8 Finals preparation day-no classes prior to 5:00 p.m.  
Finals begin at 5:00 p.m.
- 9-15 Final examinations
- 16 Dining halls close at 9:00 a.m.  
Residence halls close at 10:00 a.m.  
December Mini-Session Begins
- 17 Grades for graduating seniors due by 8:30 a.m.  
All other grades due by 4:00 p.m.
- 19 Commencement

### DECEMBER

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		

## Spring Semester – 1999

### January 1999

- 10 Residence halls open at 1:00 p.m.  
Dining halls open at 4:30 p.m.
- 11 Payment Day
- 12 Registration  
December Mini-Session Ends
- 13 Classes Begin  
Schedule revisions-late registration **with penalty fee**
- 14 Last day for schedule revisions and/or late registration **with penalty fee**
- 18 Martin Luther King, Jr. birthday - NO CLASSES
- 19 Applications for May 1999 graduation begin
- 29 Twelfth Class Day

### JANUARY

S	M	T	W	T	F	S
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10	11	12	13	14	15	16
17	18	19	20	21	22	23
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### February 1999

- 23 Last day to drop or withdraw without academic penalty.  
Last day to petition for "no grade"

### FEBRUARY

S	M	T	W	T	F	S
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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

### March 1999

- 1 Last day to apply for May graduation  
(graduate students only)
- 12 Spring recess begins at 5:00 p.m.  
Dining hall and residence halls close at 6:00 p.m.
- 21 Residence halls open at 1:00 p.m.  
Dining hall open at 4:30 p.m.
- 22 Classes resume at 7:00 a.m.
- 26 Last day to apply for May graduation  
(undergraduate students)

### MARCH

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

### April 1999

- 1 Last day to pay for diploma, cap, and gown
- 2 Good Friday - NO CLASSES
- 5 Registration for Summer and Fall begins
- 8 Last day to drop or withdraw

### APRIL

S	M	T	W	T	F	S
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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

### May 1999

- 4 Finals preparation day - no classes prior to 5:00 p.m.  
Finals begin, 5:00 p.m.
- 5-11 Final examinations
- 12 Dining hall closes at 9:00 a.m.  
Residence halls close at 10:00 a.m.  
May Mini-Session Begins
- 13 Grades for graduating seniors due by 8:30 a.m.  
All other grades due by 4:00 p.m.
- 15 Commencement

### 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 – 1999 First Term

### May 1999

- 28 Registration  
May Mini-Session Ends  
Residence halls open at 1:00 p.m.  
Dining hall opens at 4:30 p.m.  
31 Memorial Day - NO CLASSES

### 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					

### June 1999

- 1 Classes begin—schedule revisions—late registration  
**with penalty fee**  
2 Application for August 1999 graduation begins  
Last day for schedule revisions and/or late registration  
**with penalty fee**  
4 Fourth Class Day  
7 Last day to apply for August graduation  
(graduate students only)  
14 Last day to drop or withdraw without academic penalty  
Last day to petition for “no grade”  
24 Last day to apply for August graduation  
(undergraduates)  
29 Last day to drop or withdraw

### JUNE

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20	21	22	23	24	25	26
27	28	29	30			

### July 1999

- 1 Last day to pay for diploma, cap and gown  
2 Independence Day Observed - NO CLASSES  
7 Last class day  
8 All grades due by 4:00 p.m.

## Summer Session – 1999 Second Term

### July 1999

- 7 Registration  
8 Classes begin - schedule revisions and/or late registration  
**with penalty fee**  
9 Last day for schedule revisions and/or late registration  
**with penalty fee**  
13 Fourth Class Day  
21 Last day to drop or withdraw without academic penalty  
Last day to petition for “no grade”

### JULY

S	M	T	W	T	F	S
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17	18	19	20	21	22	23
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31						

### August 1999

- 5 Last day to drop or withdraw  
12 Last class day  
Dining hall and residence halls close at 6:00 p.m.  
13 Senior grades due by 8:30 a.m.  
All other grades due by noon  
14 Commencement

### AUGUST

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

# 1999-2000 Calendar

## Fall Semester – 1999

### August 1999

- 18 Residence halls open at 1:00 p.m.  
Dining halls open at 4:30 p.m.
- 19 Payment Day
- 20 Registration
- 23 Classes Begin  
Schedule revisions-late registration **with penalty fee**
- 24 Last day for schedule revisions and/or late registration **with penalty fee**
- 25 Applications for December 1999 graduation begin

### September 1999

- 6 Labor Day-NO CLASSES
- 8 Twelfth Class Day

### October 1999

- 1 Last day to drop or withdraw without academic penalty  
Last day to petition for no grade
- 4 Last day to apply for December graduation  
(graduate students only)
- 29 Last day to apply for December graduation  
(undergraduate students)  
Distribution of Spring 2000 class schedule

### November 1999

- 12 Last day to pay for diploma, cap and gown  
Last day to drop and withdraw
- 15 Registration for Spring semester begins
- 24 Thanksgiving recess begins at 10:00 p.m.  
Dining halls close at 6:00 p.m.  
Residence halls close at 6:00 p.m.
- 28 Residence halls open at 1:00 p.m.  
Dining halls open at 4:30 p.m.
- 29 Classes resume at 7:00 a.m.

### December 1999

- 7 Finals preparation day-no classes prior to 5:00 p.m.  
Finals begin at 5:00 p.m.
- 8-14 Final examinations
- 15 Dining halls close at 9:00 a.m.  
Residence halls close at 10:00 a.m.  
December Mini-Session Begins
- 16 Grades for graduating seniors due by 8:30 a.m.  
All other grades due by 4:00 p.m.
- 18 Commencement

### AUGUST

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
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### SEPTEMBER

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### OCTOBER

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31						

### NOVEMBER

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

### DECEMBER

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
25	26	27	28	29	30	31



## Spring Semester - 2000

### January 2000

- 9 Residence halls open at 1:00 p.m.  
Dining halls open at 4:30 p.m.
- 10 Payment Day
- 11 Registration  
December Mini-Session ends
- 12 Classes Begin  
Schedule revisions-late registration **with penalty fee**
- 13 Last day for schedule revisions and/or late registration **with penalty fee**
- 17 Martin Luther King, Jr. birthday observed - NO CLASSES
- 18 Applications for May 2000 graduation begin
- 28 Twelfth Class Day

### JANUARY

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					

### February 2000

- 29 Last day to drop or withdraw without academic penalty  
Last day to petition for no grade

### FEBRUARY

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			

### March 2000

- 6 Last day to apply for May graduation  
(graduate students only)
- 17 Spring recess begins at 5:00 p.m.  
Dining halls and residence halls close at 6:00 p.m.
- 26 Residence halls open at 1:00 p.m.  
Dining halls open at 4:30 p.m.
- 27 Classes resume at 7:00 a.m.
- 31 Last day to apply for May graduation  
(undergraduate students)

### MARCH

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

### April 2000

- 7 Last day to pay for diploma, cap, and gown  
Last day to drop or withdraw
- 10 Registration for Summer and Fall begins
- 21 Good Friday - NO CLASSES

### APRIL

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						

### May 2000

- 2 Finals preparation day - no classes prior to 5:00 p.m.  
Finals begin, 5:00 p.m.
- 3-9 Final examinations
- 10 Dining halls close at 9:00 a.m.  
Residence halls close at 10:00 a.m.  
May Mini-Session Begins
- 11 Grades for graduating seniors due by 8:30 a.m.  
All other grades due by 4:00 p.m.
- 13 Commencement
- 29 Memorial Day - NO CLASSES

### MAY

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		

## Summer Session – 2000 First Term

### June 2000

- 1 Registration
- May Mini-Session ends
- 4 Residence halls open at 1:00 p.m.  
Dining halls open at 4:30 p.m.
- 5 Classes begin - schedule revisions-late registration  
**with penalty fee**  
Last day to apply for August graduation (graduate students only)
- 6 Application for August 2000 graduation begins  
Last day for schedule revisions and/or late registration  
**with penalty fee**
- 8 Fourth Class Day
- 16 Last day to drop or withdraw without academic penalty  
Last day to petition for no grade
- 30 Last day to apply for August graduation (undergraduates)

### JUNE

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	

### July 2000

- 3 Last day to drop or withdraw
- 4 Independence Day Observed - NO CLASSES
- 7 Last day to pay for diploma, cap and gown
- 11 Last class day
- 13 All grades due by 4:00 p.m.

### JULY

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					

## Summer Session – 2000 Second Term

### July 2000

- 12 Registration
- 13 Classes begin - schedule revisions and/or late registration  
**with penalty fee**
- 14 Last day for schedule revisions and/or late registration  
**with penalty fee**
- 18 Fourth Class Day
- 26 Last day to drop or withdraw without academic penalty  
Last day to petition for no grade

### 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		

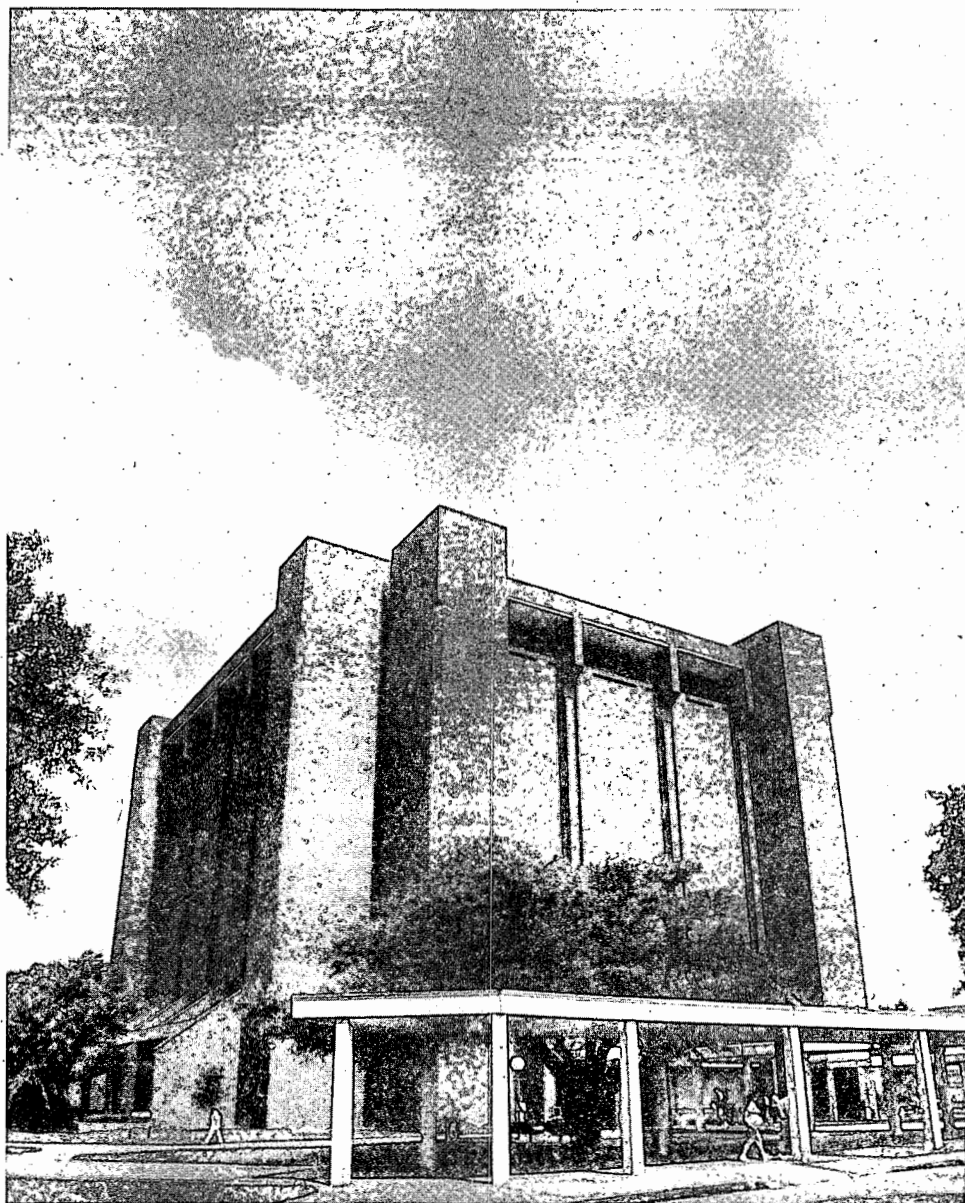
### August 2000

- 10 Last day to drop or withdraw
- 17 Last class day  
Dining halls and residence halls close at 6:00 p.m.
- 18 Senior grades due by 8:30 a.m.  
All other grades due by noon
- 19 Commencement

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Editor—Cynthia L. Hicks



*Towering eight floors as the centerpiece of the Lamar University campus, the Mary and John Gray Library has on-line access to more than 1,000,000 volumes and 3,000 periodicals.*

## General Information

### Location

The Lamar University campus is located in Beaumont, Texas. With a population of more than 114,000, Beaumont is a diversified city, home not only to the University but also to businesses and industry 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 workforce.

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 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, Montagne Center coliseum, 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 14. 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 campus in Beaumont. After World War II, the College grew to 1,079, and a bill to make Lamar University a state-supported senior college was introduced in the House of Representatives. The legislature approved the Lamar bill (House Bill-52) on 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 and education.

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 to the university level of higher education. 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 Beaumont was the primary component, was established by 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, Allied Health programs, Office Technology and Restaurant/Institutional Food Management were placed in the new Institute. The Doctorate of Education in Deaf Education was established in 1993.

Lamar's growth has been steady and progressive, anticipating the evolving needs of its students. To facilitate this growth, the Texas legislature approved House Bill-2313 to merge the Lamar University System with The Texas State University System. Effective September 1, 1995, Lamar University joined sister institutions Angelo State University, Sam Houston State University, Southwest Texas State University and Sul Ross State University.

## **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 which 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 broadbased at the master's level, and includes doctorates in engineering and deaf education. Other doctoral level educational opportunities for the region are enhanced through cooperative arrangements between Lamar University and other institutions of higher 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 and 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 cultural and 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 volunteer 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 mankind's 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 which 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**

The core curriculum includes those 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 or the scientific method, 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.** A passing score on TASP writing test or satisfactory completion of the developmental English course (Developmental Writing 0371) is a prerequisite to admission to English 1301.

**Literature—six semester hours.** Three hours of the literature requirement may be satisfied by a foreign language course or, with the approval of the major department, by the completion of one year of a foreign language in high school. Three semester hours must be substituted in lieu of the high school foreign language exemption.

**Communication—three semester hours.** Communication 1315, 2373, 2335, 3310 or 3340. Departments may substitute extensive oral communications assignments in lieu of the communication requirement.

**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 1370, 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 or in Methods of Quantitative Data Analysis. Approved courses in the latter category are BUAL 3310, MATH 1342, MATH 3370 and PSYC 2471.

**Laboratory Sciences—eight semester hours:** (Biology, chemistry, geology or physics courses which contain a laboratory component.)

**Social Science—three semester hours.** A cross-cultural course from one of the following: Anthropology 2346, 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.**

## 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.



- 4. Additional Graduation Requirements.** Please consult the General Catalog for additional degree requirements, including Health and Physical Education. Note: Transfer students may satisfy the Health 1370 (Health and Wellness) graduation requirement by having taken Health 1373 (Personal Health) 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, 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 have been 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. The undergraduate and graduate programs of the College of Business are accredited by the American Assembly for Collegiate Schools of Business.

Other accreditations include Nursing by the National League for Nursing, 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 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 a number of academic councils, societies, associations and other such organizations.

## 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. Students seeking teacher certification should consult the Director of Professional Services, College of Education and Human Development, regarding requirements.

## Degree Offerings

### 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, Studio Art

### Bachelor of Music

**Bachelor of Science** in Biology, Chemistry, Communication, Communication Disorders, Computer Science, Criminal Justice, Dance, Earth Science, Economics, Education In-

terdisciplinary Studies, Energy Resources Management, Environmental Science, Family and Consumer Sciences, Geology, Graphic Design, Health, Kinesiology, Mathematics, Mathematical Science, 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 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 Audiology, Biology, Chemistry, Community Psychology, Computer Science, Deaf Studies/Habilitation, Environmental Engineering, Environmental Studies, Family and Consumer Sciences, Industrial and Organizational Psychology, Kinesiology, Mathematics, Speech-Language Pathology, and Theatre

**Master of Public Administration**

**Doctor of Education** in Deaf Education

**Doctor of Engineering**

## Organization

Lamar University at Beaumont is organized into six colleges. These Colleges are Arts and Sciences, Business, Education and Human Development, Engineering, Fine Arts and Communication and Graduate Studies.

## Entering Dates

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

Demand and resources permitting, 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 with their academic advisor.

## Interactive Video and Instructional Television

Lamar University offers two different distance delivery methods to help students complete their degree. One method is interactive video, which broadcasts an on-campus class to a distant site through video teleconferencing equipment. Distance students can hear and see, in real time, the instructor and students in the Beaumont campus classroom. The second method of distance delivery offered by Lamar University is by telecourse—courses broadcast on cable television. Students watch televised lectures; class assignments are handled by mail, email or fax; the instructor is available by telephone, email or individual appointment; and students come to campus for exams. Distance delivery courses are offered according to demand and resources.

Additional information about distance delivery courses is available through the Center for Adult Studies, (409) 880-8431.

## Services for Students with Disabilities

Services for students with disabilities are designed to help the student be as successful as possible on the Lamar campus. Students who have certain disabilities qualify for registration assistance, tutoring, adaptive equipment and other personalized services. Please notify the Office of Services for Students with Disabilities (SFSWD) if you have need for a disability-related accommodation and/or alternate format of these printed materials or for additional information contact the Coordinator of Services for Students with Disabilities, Room 101A, Wimberly Student Services Building, P.O. Box 10010, Lamar University Station, Beaumont, Texas 77710, telephone (409) 880-8026 (voice/TTY).

Students applying for admission and/or readmission are informed that a special assistance program is provided to students with disabilities by the Registrar's staff during periods of preregistration and registration.

Prior to registration in any university program, students are requested to notify the Coordinator of Handicapped Services for students with disabilities regarding assistance and/or accommodation they anticipate will be needed during the course of instruction for which they plan to register. This notification, and preferably a conference appointment, should be completed from one to two months before the actual date of registration.

Department Chairs and Academic Deans are authorized to notify faculty members to assist students with information regarding the university policy for assistance and to urge students and applicants to take advantage of the earliest possible appointment and conference regarding assistance and/or accommodations anticipated for their course of instruction.

When students require third-party assistance or mechanical assistance in the course of instruction, instructors will be notified by their department chair that the particular assistance has been approved. Such assistance will be available to the student during all instructional sessions including examinations and scheduled laboratory sessions. Third-party assistance may also be required on appointment when students request a conference and/or advisement from instructional faculty.

In certain instances the university assumes the obligation to provide signers as third-party assistance to students with impaired hearing. When authorized signers are hired by the instructional department as student assistants, the rate is \$5 per class hour. Signers as student assistants are authorized when the student is not otherwise provided with third-party assistance by the Texas Rehabilitation Commission and when the signer has been certified as qualified by the University Speech and Hearing Clinic.

Instructional departments are reimbursed for signers as student assistant expenditures by the Vice President for Finance in response to procedures detailed in "Registration Assistance Program" dated October 18, 1983.

## 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 each Fall and Spring semester. 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, refugees, and those holding non-immigrant visas may study *part-time* in our program, which includes intensive work in all language skill areas: writing, grammar, reading, vocabulary, listening comprehension, and conversation/pronunciation.

Our *full-time* course provides over 20 hours of ESL instruction per week for 14 weeks. In addition, the LLI offers shorter, five-week, summer-session courses. At the end of each semester or session, LLI administers the institutional TOEFL to all full-time students for exclusive use in the admissions process at Lamar University.

As an integral part of training and study, the LLI sponsors a number of cultural and social activities specifically designed to enhance the learning of English and encourage 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 TASP requirements. The LLI also can prepare and implement customized corporate training plans, including on-site instruction and English for Special Purposes.

## Bookstore

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

The University Bookstore is open Monday-Thursday 7:30 a.m.-5:30 p.m. and Friday 7:30 a.m.-5 p.m. during the Fall and Spring semesters. Summer semester hours are Monday-Thursday 8 a.m.-5 p.m. and Friday 8 a.m.-4 p.m. Extended hours are posted during Rush and buy-back.

## Campus Post Office

The campus Post Office, a contract facility operated by the University, is officially designated as Lamar University Station 77710. Full postal services are offered.

Each student may make application for a box at the Post Office by completing necessary forms. There is a charge for each box. Three students are allowed to share the same box.

## Early Childhood Development Center

Lamar University's Early Childhood Development Center is located at 950 East Florida. The Center provides high quality extended day-care services and certified kindergarten programs for children between the ages of 18 months and six years.

The Center is staffed with degreed teachers who create a stimulating environment and provide unlimited opportunities for learning. In addition to providing care for young children, the Center, under the administration of the Department of Family and Consumer Sciences, College of Education and Human Development, provides a site for college students to observe and work with children as part of their course work and training.

The Early Childhood Development Center accepts children on a part-time or full-time basis with the fees based on the number of hours children are in attendance.

## Information Systems (Computing Facilities)

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

The Computer Center, a department of the Information Systems Division, provides for administrative computing with a DEC 7620 computer system. This system is capable of processing 270 million instructions per second (MIPS), has 1.5 billion bytes of working memory and 61 billion bytes of disk storage. The operating system is Open VMS and is capable of handling in excess of 600 simultaneous users. The system supports two 1200 line per minute impact printers, one 600 line per minute impact printer, two laser printers, one reel-to-reel tape unit, and four cartridge tape units.

The Computer Center supports the academic mainframe computer needs with a DEC 2100 Alpha computer running Open VMS and a DEC 2100 Alpha computer running UNIX. Both DEC 2100 Alpha computers are capable of processing 70 million instructions per second (MIPS), have 256 million bytes of working memory, 14 billion bytes of disk storage, and a 4mm cartridge tape unit.

The Computer Center operates a DEC 2100 Alpha computer for the John Gray Library. This computer uses Open VMS as an operating system to run the third party library software package DRA. The library DEC 2100 is capable of processing 100 million instructions per second (MIPS), has 256 million bytes of working memory, and 20 billion bytes of disk storage, and one cartridge tape unit.

General use computer labs for students are located at various strategic locations on the campus. These labs utilize personal computers which can be used as terminals or workstations. The campus computer systems are connected using a fiber optic backbone which allows high speed data transmissions and connection to the Internet.

## 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 3,000 periodicals. Seating accommodates 1,200 students and faculty.

The first floor service areas include circulation, reference and interlibrary 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 administrative offices, the Media Services Department, microcomputer 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 and periodicals, the Library provides access to state and federal government documents and participates in the library networks which extend access to information resources. The Library coordinates multimedia programs on campus and has a basic collection of equipment and materials for central distribution.

## Environmental Library

Also located on the second floor of the Mary and John Gray Library, is the Gulf Coast Environmental library, the focus of which is the industrial treatment of hazardous waste.

## Montagne Center

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

## Public Services and Continuing Education

Public Services and 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, Non-Credit 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 all adults who are considering returning to college or beginning college. The Center is also the advising office for the Bachelor of Applied Arts and Sciences and the General Studies degree programs. Distance learning classes allow students to earn credits toward degrees using locations and methods that are convenient and accessible. The Center also coordinates travel study programs:

The Non-Credit Programs Division serves as a link between Lamar University and the community to meet educational, cultural and training needs.

Other noncredit certification programs and courses help students to 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 age 65 or over. 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 firefighters 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, and an annual school each May.

Other programs administered by Public Services and Continuing Education include the Spindletop Gladys City Boomtown Museum, Minority Scholars Institute, a summer program to encourage and motivate high-achieving minority high school students; "I Have A Dream," a program which pairs mentors from the community with middle and high school students to encourage them to complete their education and continue to college on scholarships provided by the program.

Public Services and Continuing Education administrative offices are located in the Montagne Center. To learn more about these programs, call (409) 880-28209.

## 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.

## **Institutional Advancement**

The Division for Institutional Advancement encompasses development, publications and institutional marketing. It has responsibility for the University news bureau, Library Reception Center (8th Floor) and serves as liaison to the Lamar University Foundation, Inc., and the Lamar University Alumni Association.

Institutional Advancement works closely with the President in raising external funds for student scholarships and other advancement programs. The Division coordinates fundraising by the five academic colleges, the Lamar University Foundation, and other campus constituencies.

## **Spindletop/Gladys City Boomtown Outdoor 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 boom town that sprang up at Spindletop after the Lucas discovery.

Gladys City is open from 1 to 5 p.m. Sunday through Friday, and from 9 a.m. to 5 p.m. Saturday (closed Monday). Admission is \$2.50 for adults, \$1.25 for children age 6 to 12 and for senior citizens. Lamar students with current identification cards and children under 6 are admitted free. Facilities may be rented for functions by private groups. Telephone (409/835-0823) or write to P.O. Box 10082, Beaumont, TX 77710 for further information.

## **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.

## **Alumni Association**

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 Alumni House located on Redbird Lane. This office coordinates all events and activities for alumni ranging from fundraising to social events. Some of these include the Association's country-western fundraiser Rowdy Roundup and Distinguished Alumnus Awards. It also administers 25 Presidential Scholarships donated by alumni, some of the most coveted scholarships offered at Lamar.

## Smoking Policy

The following regulations were developed from review and comments by the Faculty Senate, Academic Council of Deans, Council of Instructional Departments, Staff Advisory Committee and Student Government Association.

1. Smoking is prohibited in all academic classrooms, laboratories, meeting rooms, restrooms, locker rooms, coffee areas, supply storage areas, lobbies, corridors, reception areas, private offices and university vehicles.
2. Cafeteria, dining halls or other eating areas shall be nonsmoking areas, unless they are large enough to provide space for smoking that does not intrude on non-smokers.
3. Each building coordinator, with the approval of the Vice President for Administration and Counsel, shall, if an appropriate area exists, designate a smoking area. There shall be posted at the entrance of every building on the university campus a sign stating "This is a nonsmoking facility except in designated areas." There will be no ashtrays in nonsmoking areas.
4. This nonsmoking policy applies to university facilities used by off-campus groups as well as university groups.
5. The University Personnel Office shall inform all applicants for employment at Lamar University of the Smoking Policy.
6. The University Smoking Policy shall be included in all appropriate catalogs, handbooks and other appropriate university documents.



## 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 University 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 10007, Lamar University Station, Beaumont, Texas 77710 or by calling 409-880-8888 or 1-800-458-7558.

### 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(R)	SAT	ACT
1st Quarter	no minimum score required		
2nd Quarter	no minimum score required		
3rd Quarter	1000	900	21
4th Quarter	1100	1000	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 term and 14 credit hours in a fall or spring term.
  - 3. Successful completion of at least 9 credit hours of collegiate (i.e., non-developmental) courses including ENG 131 or MTH 1334 (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. 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.

## 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 the official form, including your Social Security number.
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 or by calling (409) 880-8888.

## 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

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 and Central Advising (Suite 200 Archer Physics Building, 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 TASP-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

**Suite 200 Archer Physics Building, Phone: 880-8907**

All Lamar University students are required 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 and Central Advising 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 TASP restricted and/or subject to provisions of Individual Approval admissions are advised in the Office of Developmental Studies (110 ROTC Building, phone 880-8954).

## Advanced Placement

The two optional testing programs listed below are offered to enable first-time university students to qualify for advanced standing and/or college credit. These tests must be taken before enrollment. Applicants also may qualify for credit through the College Level Examination Program (CLEP).

### 1. Advanced Placement Examinations (Optional)

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, 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 2914
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	Score of 4 or 5	English 1301-1302
	Score of 3	English 1301
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

Subject Area	Required Score	Credit Granted
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	Music Lit. 1208, 1209
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

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

## 2. SAT II - Subject Tests

Students with outstanding high school records or who have participated in accelerated programs are encouraged to take the College Entrance Examination Board's Subject Tests in available academic areas. The results of these tests may allow the student to bypass introductory level courses. Students scoring at or above University standards are awarded credit according to the following chart. SAT II Subject Tests are given on most of the regularly scheduled SAT test dates. Registration bulletins are available from high schools and the Lamar University Career Center.

Subject Matter Area	CEEB Test Required	Credit Granted
English Composition	English	Engl 1301 if validated by completion of Engl 1360 with a grade of "C" or better.
Foreign Lang.	Spanish French	0 to 12 semester hours depending on placement and validation.
Chemistry	Chemistry	Chem 1411 if validated by completion of Chem 1412 with a grade of "C" or better.

Mathematics	Level I	Up to 12 semester hours depending on placement and validation.
Physics	Physics	Physics 1401 if validated by completion of Physics 1402 or 2426 with a grade of "C" or better.

3. **College Level Examination Program (Optional)**

Credit by examination also is available through the College Level Examination Program (CLEP). Details are in the Academic Regulations section.

## 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 the cumulative grade point average.
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 which will transfer promptly, that is, no later than the end of the first academic term in which they are enrolled.

## 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.

## Transfer Dispute Resolution Guidelines

The following guidelines and definitions are established to clarify and enhance paragraph (6) of Chapter 5, Subchapter A, Section 5.4 of the Texas Higher Education Coordinating Board rule pertaining to *Transfer Curricula and Resolution of Transfer Disputes for Lower-Division Courses*.

### Definitions

The definitions listed below were established by the Coordinating Board and will serve as criteria to resolve legal questions as specified in Section 1.23, Subchapter C, Chapter 61 of the Education Code, Section 61-078. The publications *Transfer of Credit Policies and Curricula of the Texas Higher Education Coordinating Board and Community College-General Academic Course Guide Manual: A Manual of Approved General Academic Transfer Courses for State Appropriations to Texas Public Community Colleges* are the references for this issue: **The following criteria for lower-division and upper-division course credit were adopted by the Task Force to update the Academic Course Guide Manual.**

A. Criteria for Lower-Division Course Credit

Lower-Division (Baccalaureate/Associate Degree) Courses

Courses offered in the first two years of college study are those which

- a. Are identified by a majority of public four-year undergraduate institutions in the state as courses intended to comprise the first two years of collegiate study, AND
- b. Stress development of disciplinary knowledge and skill at an introductory level; OR
- c. Include basic principles and verbal, mathematical and scientific concepts associated with an academic discipline.

B. Criteria for Upper-Division Course Credit

Upper-Division (Baccalaureate) Courses

Courses offered only in the third or fourth years of a baccalaureate program are those which:

- a. Are identified by a majority of public four-year undergraduate institutions in the state as courses intended to comprise the third and fourth years of postsecondary study, AND
- b. Involve theoretical or analytical specialization beyond the introductory level, OR
- c. Require knowledge and skills provided by previous courses for successful performance by students.

C. Free Transferability

Lower-division courses included in the *Academic Course Guide Manual* and specified in the definition of "Lower-Division Course Credit" shall be freely transferable to and accepted as comparable degree credit by any Texas public institution of higher education where the equivalent course is available for fulfilling baccalaureate degree requirements. It is understood that each Texas institution of higher education may have limitations that invalidate courses after a specific length of time.

For Texas community colleges, these freely transferable courses are identified in the latest revised edition of Coordinating Board publication *Community College General Academic Course Guide Manual - A Manual of Approved General Academic Transfer Courses for State Appropriations to Texas Public Community Colleges*, (revised 1991). Specifically excluded are courses designated as vocational, ESL/ESOL, technical, developmental or remedial, and courses listed as "basic skills."

For senior four-year institutions, lower-division courses that have the same course content and CIP codes as approved by the Coordinating Board shall bear equivalent credit. Specifically excluded are courses designated as ESL/ESOL, technical and developmental/remedial courses.

Within the spirit of the law it is realized that differences in interpretation of "same course content" may generate disputes.

D. Disputes

Transfer disputes may arise when a lower-division course is not accepted for credit by a Texas institution of higher education. To qualify as a dispute the course(s) in question must be offered by the institution denying the credit (receiving institution), or in the case of upper-level institutions, must be published as a lower-division course accepted for fulfilling lower-level requirements. For community colleges, the course(s) must be listed in the *Community College*



*General Academic Course Guide Manual*, and be offered at the receiving institution. Additionally, the sending institution must challenge the receiving institution's denial of credit.

## Instructions for Completing the "Transfer Dispute Resolution" Form

- The institution whose credit has been denied (sending institution), or the student working through the sending institution, must initiate the dispute. From the date a student is notified of credit denial (date evaluation is sent by the receiving institution), the law allows a maximum of 45 calendar days for the resolution of the dispute by the sending and receiving institutions.
- In all disputes, Coordinating Board form, CB-TDR, "Transfer Dispute Resolution," must be completed to initiate dispute action. The form will provide notification and documentation of resolution of the dispute or initiate action of the part of the commissioner to resolve the dispute.
- The "Transfer Dispute Resolution" form must be completed and forwarded to the receiving institution within 15 calendar days after the evaluation has been submitted to the student.
- Forms will be available in the chief academic officer's (CAO) or designee's office. The student and the CAO of the sending institution will complete appropriate sections of the form, retain copies of the form and forward it to the CAO of the receiving institution.
- The CAO or designee of the receiving institution will either resolve the dispute and complete the "dispute resolved" section of the "Transfer Dispute Resolution" or not resolve the dispute and complete other sections of the form. In either case, the receiving institution will forward copies of the form to the student, the sending institution and to the Commissioner of Higher Education.
- Failure by the receiving institution to notify the Commissioner in writing, as specified above, within 5 days after the 45 calendar-day requirement will allow the student or sending institution to send written notification to the commissioner and may result in "automatic" acceptance of the credit by the institution which originally denied the credit.
- When it is required that the Commissioner or his/her designee resolve the dispute, the resolution will be so designated on the form and copies sent to all parties. Both institutions will maintain form files and the Coordinating Board will maintain a file of all resolutions by institutions.

## "Disputes" vs. "Problems"

Problems that occur during the transfer process will not always be categorized as disputes, and will not follow dispute procedures and guidelines. Problems are clearly within the jurisdiction of the receiving institution.

Problems may include, but are not limited to, these situations:

- A student may lose credit hours or have to take additional, lower-level credit hours when he or she changes majors.
- Students may not decide which upper-level/senior institution they will attend to complete their degree until after they have completed significant lower-level coursework. Courses taken may not apply or transfer to the institution selected.
- A student may take more than 66 lower-level credit hours.

- A student may have received unsatisfactory grades in lower-level courses.
- The student may take vocational, technical, developmental or remedial courses that are not defined as general academic courses.
- Compliance with external accrediting agencies, newly enacted legislation and changes in Texas Education Agency or Coordinating Board regulations may invalidate courses students have already completed.
- Students may take more credit hours in a course category than will transfer. Examples include activity hours in physical education, choir, band, etc.
- Institutions may not accept work that is considered too old.
- The student may repeat courses to raise grade point averages. Duplicate credit would not be accepted.

## 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 TASP requirements and must provide TASP scores, evidence of TASP exemption, or proof of Spring semester registration at another 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.

## Adult Learner Students

The Adult Learner Services is an entrance assistance program for adults who have not decided on a specific program of study or who want to take a course for content only. Adults who meet the entrance requirements of Lamar University may enter the University as an Adult Learner. Adult Learners may take up to 50 hours of core curriculum courses before selecting a specific field of study. Adult Learners are advised by the Center for Adult Studies of Public Services and Continuing Education. Adult Learners must abide by the University's probation and suspension policies as well as all other university rules and regulations. For more information call the Center for Adult Studies (409) 880-8431.

## 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 (PL 93-380).

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 Dean of Records and 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 any or all of this information be withheld from the public by making written request to the Records Office. The request must be made by the last official day to register for a given session and applies to that session only. 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 Office of Records.

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 dependency as defined by the Internal Revenue Service.

## 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 nonnative 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 postsecondary 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 postsecondary academic degree with above average grades.

All foreign students who have not completed successfully a minimum of three college hours prior to Fall, 1989, must complete the State-mandated Texas Academic Skills Program (TASP) Test. Registration forms for testing are available in the Lamar University Assessment, Advising and Research Center in the Wimberly Building.

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. Internationals also must present proof of adequate health insurance. Internationals 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: May 15 for Fall Semester; October 1 for Spring Semester; and February 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 internationals 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.

## 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 early entry to Lamar University 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. TASP (Texas Academic Skills Program) Compliance

Students must meet one of the following:

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

### OR

- b. Prior to being enrolled, achieve TASP 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

Based on the high school's need and student interest, Lamar University can offer classes at the high school. Classes are taught by university faculty and students receive college credit. The high school can arrange on-site instruction through the Office of Off-Campus Programs at Lamar. Instruction may be in person or through distance learning technology. Students' 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 Office of Off-Campus Programs.

Once a school is approved for LEAP, student applicants must have

1. obtained junior or senior status in an accredited high school;
2. maintained at least a B+ high school average;
3. received a minimum SAT, or projected PSAT, score of 960 with a minimum score of 480 on both verbal and math, or a composite ACT score of 20 or more with a minimum of 19 on both the English and math; and
4. a written recommendation from a high school teacher, counselor or principal.

## Texas Academic Skills Program (TASP) Test

The Texas Academic Skills Program (TASP) is required by Texas law to ensure that students enrolled in Texas public colleges possess the academic skills needed to perform effectively in college-level coursework. TASP 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 TASP requirement must take the State TASP test. This test must be taken and scores received before advising and registration.**

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

1. earned at least three college-level credit hours prior to September 1989.
2. 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.
3. an SAT composite score of 1070 or higher with individual math and English scores of no less than 500 (recentered 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.
4. 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.

5. a graduate with a baccalaureate degree from an institution of higher education, an accredited private or independent institution of higher education, or an accredited out-of-state institution of higher education.
6. students 55 years of age or older.

Otherwise, all full-time and part-time students (including transfers from private or out of state institutions) enrolled in a college-level certificate or degree program must take the TASP test for reading, writing and mathematical skills.

If, after taking the TASP 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 TASP 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 TASP 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 TASP examination, the best time to take the TASP examination and to obtain a copy of the TASP Registration Bulletin and the official TASP Study Guide, contact the Office of Developmental Studies, 110 ROTC Building.

For further information on TASP requirements and the developmental programs, see pages 56 and 57 of this catalog.

## Financial Aid and Awards

Financial assistance in the form of scholarships, grants, loans and employment is available to a number of 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, Lamar Station, 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 and file the Lamar University Financial Aid Application and the Free Application for Federal Student Aid (FAFSA). The FAFSA is filed with the College Scholarship Service and is used to determine financial need. Because the processing of this form requires between three and four weeks, students planning to meet the April 1 deadline should file by March 1. Students who have attended other postsecondary institutions (including those from Lamar University-Port Arthur and Lamar University-Orange) must submit financial aid transcripts from all previously attended institutions before financial aid can be awarded.

Freshmen may obtain required forms from their high school counselors or directly from the Student Financial Aid Office, P.O. Box 10042, Beaumont, TX 77710. Students currently enrolled at Lamar may obtain forms from the Student Financial Aid Office, Wimberly Student Services Building. Students must reapply each year for consideration for continued assistance.

After the application is complete, the Student Financial Aid Office will consider the student's academic progress as well as documented financial need. The amount and type of assistance will be determined and the applicant will be notified by mail.



## 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 upperclass 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 or its equivalent;
- c. be admitted to Lamar University; and
- d. in the case of continuing students, meet reasonable academic progress standards.

**Reasonable Academic Progress**—Students receiving aid for the first time after July 1, 1987 must maintain a 2.00 cumulative Grade Point Average after the completion of their second academic year of attendance. Students enrolling full-time for two long semesters must also complete a total of 24 credit hours with grades of A, B, C, D, or S before aid can be awarded for the next academic year. Students on academic probation are not eligible for loan funds. Students on suspension (25 or more grade point deficiencies) are not eligible for financial aid. 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 within ten days of the date of denial of assistance.

## Grants

The Pell Grant is the foundation source for all other need-based aid programs. All applicants are required to submit the Student Aid Report for the Pell Grant except those applying for scholarships only. No other need-based assistance (grants, loans, work-study) can be awarded until the student's eligibility for the Pell Grant is determined. The filing of the FAFSA should cause the Student Aid Report to be sent to the student's address. The student should then send the Student Aid Report to the Student Financial Aid Office for an estimated grant amount to be determined. The final Pell Grant will be determined at the time of enrollment.

Other available grants are the Supplemental Educational Opportunity Grant, the Texas Public Education Grant (TPEG) and the State Student Incentive Grant (SSIG). Students with exceptional need as determined by the FAFSA may be awarded one of these grants.

## 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, audiotape, auditions, student submitted works, or personal observations.

## Waiver of Non-Resident Fees

Certain students receiving competitive scholarships 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 Texas Higher Education Coordinating Board.

## 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 nonrefundable 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 two or more of the Lamar University components 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. Students attending other components of Lamar University will be required to submit financial aid transcripts to the institution awarding their financial aid.

## 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 Aid Accounting, P.O. Box 10099, Lamar University Station, Beaumont Texas, 77710.

## 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%

#### 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. 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%
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**

Unsubsidized Federal Stafford Loan  
Subsidized Federal Stafford Loan  
Federal PLUS Loan  
Federal Perkins Loan  
Federal Pell Grant  
Federal SEOG  
SSIG  
Other Federal SFA Programs  
Installments  
LU-B Short Term Loan  
Emergency Tuition Loan (TPEG Loan)  
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 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 839-2900.
- (3) Drop box at Plummer 116 for check (with social security number and campus) or credit card (SSN, campus, card number, amount, expiration date, card holder) in a sealed envelope. These payments will be considered part of the next business day's activity if paid after 7:00 a. m. No cash!
- (4) Drop box at Setzer Center for check (with social security number and campus) or credit card (SSN, campus, card number, amount, expiration date, card holder) in a sealed envelope. These payments will be considered part of the next business day's activity if paid after 7:00 a. m. No cash!
- (5) Drop box at Wimberly 114 for check (with social security number and campus) or credit card (SSN, campus, card number, amount, expiration date, card holder) in a sealed envelope. These payments will be considered part of the next business day's activity if paid after 7:00 a. m. No cash!
- (6) Mailed to the Payment Center at P.O. Box 200294, Houston, TX 77216-0294.
- (7) At Lamar University-Port Arthur and Lamar University-Orange, all payments except credit card can be made during regular hours at the cashier offices.

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 (409-838-8111) 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. 75 of this catalog.)

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

Tuition (in-state) .....	\$870
Student Services Fee .....	138
Setzer Student Center Fee .....	30
Property Deposit .....	10
Student ID .....	5
Computer Use Fee .....	30
Library Use Fee .....	30
Parking Fee (if desired) .....	32
Books (estimated) .....	427
	<b>\$1,572</b>
	+ course fees

### Part-time Student (Six semester hours):

Tuition (in-state) .....	\$348
Student Services Fee .....	90
Setzer Student Center Fee .....	30
Property Deposit .....	10
Student ID .....	5
Computer Use Fee .....	18
Library Use Fee .....	18
Parking Fee (if desired) .....	32
Books (estimated) .....	213
	<b>\$764</b>
	+ 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 on the Beaumont campus.

### Lamar University Summer 1998

No. Sem. Hours	Tuition		Stu. Serv. Fee	Setzer Center Fee	Computer Property Deposit	Library Use Fee	Library Use Fee	Total	
	Texas Resident	Non-Texas Resident						Texas Resident	Non-Texas Resident
1	\$ 80	\$ 268	\$15	\$15	\$10	\$ 3	\$ 3	\$126	\$ 314
2	108	536	30	15	10	6	6	175	603
3	162	804	45	15	10	9	9	250	892
4	216	1072	60	15	10	12	12	325	1181
5	270	1340	69	15	10	15	15	394	1464
6	324	1608	69	15	10	18	18	454	1738
7	378	1876	69	15	10	21	21	514	2012
8	432	2144	69	15	10	24	24	574	2286
9	486	2412	69	15	10	27	27	634	2560
10	540	2680	69	15	10	30	30	694	2834

Parking-\$12; ID-\$5; Property Deposit is a one-time fee; Other course and material fees may apply. Note: Fees are subject to change by action of the Board of Regents or the Texas State Legislature.

### Lamar University Fall 1998/Spring 1999

No. Sem. Hours	Tuition		Stu. Serv. Fee	Setzer Center Fee	Computer Property Deposit	Library Use Fee	Library Use Fee	Total	
	Texas Resident	Non-Texas Resident						Texas Resident	Non-Texas Resident
1	\$142	\$ 271	\$ 15	\$30	\$10	\$ 3	\$ 3	\$ 203	\$ 332
2	164	542	30	30	10	6	6	246	624
3	186	813	45	30	10	9	9	289	916
4	232	1084	60	30	10	12	12	356	1208
5	290	1355	75	30	10	15	15	435	1500
6	348	1626	90	30	10	18	18	514	1792
7	406	1897	105	30	10	21	21	593	2084
8	464	2168	120	30	10	24	24	672	2376
9	522	2439	135	30	10	27	27	751	2668
10	580	2710	138	30	10	30	30	818	2948
11	638	2981	138	30	10	30	30	876	3219
12	696	3252	138	30	10	30	30	934	3490
13	754	3523	138	30	10	30	30	992	3761
14	812	3794	138	30	10	30	30	1050	4032
15	870	4065	138	30	10	30	30	1108	4303
16	928	4336	138	30	10	30	30	1166	4574
17	986	4607	138	30	10	30	30	1224	4845
18	1044	4878	138	30	10	30	30	1282	5116
19	1102	5149	138	30	10	30	30	1340	5387
20	1160	5420	138	30	10	30	30	1398	5658

Note: Fees are subject to change by action of the Board of Regents or Texas State Legislature. A resolution before the Board of Regents at catalog presstime may increase the general use fee and other fees if approved.

Parking: Fall-\$32, Spring-\$22; ID-\$5; Property Deposit is a one-time fee; Other course and materials fees may apply.

## Lamar University Summer 1999

No. Sem. Hours	Tuition		Stu. Serv. Fee	Setzer Center Fee	Computer Property Deposit	Library Use Fee	Library Use Fee	Total	
	Texas Resident	Non-Texas Resident						Texas Resident	Non-Texas Resident
1	\$ 82	\$ 271	\$15	\$15	\$10	\$ 3	\$ 3	\$128	\$317
2	116	542	30	15	10	6	6	183	609
3	174	813	45	15	10	9	9	262	801
4	232	1084	60	15	10	12	12	341	1193
5	290	1355	69	15	10	15	15	414	1479
6	348	1626	69	15	10	18	18	478	1756
7	406	1897	69	15	10	21	21	542	2033
8	464	2168	69	15	10	24	24	606	2310
9	522	2439	69	15	10	27	27	670	2587
10	580	2710	69	15	10	30	30	734	2864

Parking: Fall-\$12; ID-\$5; Property Deposit is a one-time fee; Other course and materials fees may apply. Note: Fees are subject to change 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 through regulated by State statutes (the general use fee). 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. Determination of legal residence for tuition purposes is made on the basis of statutes of the State of Texas by the Admissions Office. Tuition is remitted to the State by the University. The current rate is \$34 per hour with a minimum \$120 (\$60 for Summer sessions) moving to \$36 per hour in Fall 1998 and increasing by \$2 per hour every Fall thereafter.

The general use fee 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 \$20 per hour moving to \$22 per hour in Fall 1998 and increasing by \$2 per hour every Fall thereafter.

Combined, the current rate is \$54 per hour with a minimum of \$140 (\$80 for Summer sessions) moving to \$58 per hour in Fall 1998 and increasing by \$4 per hour every Fall thereafter.

## Student Service Fee

The student service fee supports student activities such as athletics, recreational sports, the University Press, the Health Center and other student services. The current rate is \$15 per hour with a maximum of \$138.



## 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

Various courses have additional fees associated with them. Students should always check with the departments offering the class to see if additional fees will be assessed. The following is a summary of some fees associated with some classes.

### ARTS AND SCIENCES

BIOL 1400, 1401, 1406, 1407, 2401, 2402, 2428, 2420, 2476, 3420, 3440, 3450, 3460, 3470, 4101, 4401, 4405, 4406, 4410, 4430, 4440, 4450, 4460, 4470, 5410, 5450, 5470 .....	\$24.00
CHEM 1411, 1412, 1405, 1407, 2401, 3411, 3412, 4131, 4132, 4271, 4371, 4411, 4412, 4461, 4471, 4481, .....	\$24.00
CHEM 4101, 5301 .....	\$12.00
COSC 1371, 2371, 4302, 4307, 4310, 5328, 5313 .....	\$70.00
FREN 1311, 1312, 2311, 2312, 3300, 3350, 3360, 3370, 3380, 3390, 4310, 4330, 4390 .....	\$24.00
GEOL 1403, 1404, 2471, 2473, 3101, 3102, 3410, 3420, 3450, 3460, 3600, 4360, 4391, 4410, 4420, 4451 .....	\$24.00
GERM 1311, 1312, 2311, 2312 .....	\$24.00
MATH 2413, 3345, 4315, 4330 .....	\$70.00
NURS 2972, 4330 .....	(exam fee cost)
NURS (all) .....	\$125.00/sem.
PHYS 1401, 1402, 1405, 1407, 2170, 2425, 2426, 3310, 3430, 3450, 3460, 4210, 4220, 4480 ....	\$24.00
PSYC 2471, 3420, 4100, 4300, 4430, 5120 .....	\$24.00
SPAN 1313, 1314, 2311, 2312, 3300, 3310, 3320, 3330, 3340, 3350, 3380, 3390, 4320, 4330, 4360, 4380 .....	\$24.00

### DEV. STUDIES/TASP

DRDG 0071 .....	\$70.00
DMTH 0071 .....	\$70.00
DWRT 0071 .....	\$70.00

### ED. AND HUMAN DEV.

CNDV 5390, 5391 .....	\$85.00
EDLD 5397, 5398, 5399 .....	\$85.00
FCSC 1315, 1328, 1375, 1376, 2371, 2372, 2377, 2379, 2381, 2384, 3302, 3305, 3327, 3340, 3350, 3360, 4300, 4305, 4308, 4332, 4344, 4347 .....	\$20.00
FCSC 1374 .....	\$5.00
FCSC 5304, 5305, 5306, 5307 .....	\$75.00
FCSC 5320 .....	\$2.00
PEDG 4620, 4630, 4650 .....	\$50.00

**ENGINEERING**

CHEN 4150, 4310, 4370 .....	\$70.00
CHEN 4310, 4340, 4410, 4420 .....	\$2.00
CVEN 2270, 3200, 3310, 3350 .....	\$2.00
CVEN 3200, 3310, 3350, 3390, 4212, 4350 .....	\$70.00
ENGR 1174, 5389 .....	\$2.00
ENGR 1301 .....	\$70.00
ELEN 2107, 3108, 3109, 3201, 4206, 4207 .....	\$70.00
ELEN 3108, 3109, 4381 .....	\$2.00
INEN 3322, 3360, 3380, 4310 .....	\$70.00
MEEN 3210, 3320, 3350, 4316, 4319, 4323 .....	\$70.00
MEEN 3210, 3320, 3350, 4380, 4316, 4317, 4319, 4323 .....	\$2.00

**FINE ARTS AND COMM.**

MUAP 1101, 1181, 1225, 1209, 1229, 1237, 1217, 1241, 1221, 1269, 1233, 1257, 1213, 1245, 1249, 1253, 1205, 1201, 1281, 1283, 3225, 3229, 3237, 3217, 3241, 3269, 3233, 3257, 3245, 3249, 3205, 3201, 3281, 3429, 3438, 3417, 3441, 3421, 3469, 3433, 3457, 3445, 3401, 3481, 3483, 5210, 5220, 5230, 5410, 5420, 5430 .....	\$50.00/hour
ARTS 1316, 1317 .....	\$11.00
ARTS 1311, 3371, 4381 .....	\$15.00
ARTS 4331, 4341 .....	\$22.00
ARTS 2331, 3333 .....	\$25.00
ARTS 2316, 3313, 3315, 3316, 3317, 3323, 3325, 3326, 3327, 3335, 3365, 4315, 4316, 4325, 4326, 4355, 5325, 5326, 5335, 5365 .....	\$28.00
ARTS 2323, 2324 .....	\$30.00
ARTS 1312 .....	\$33.00
ARTS 3376, 3386, 4376, 5386 .....	\$39.00
ARTS 2356, 2326, 2379, 3303, 3375, 4375, 5385 .....	\$44.00
ARTS 4343, 4353, 4363, 5323 .....	\$50.00
ARTS 4303, 5305 .....	\$55.00
CMDS 3305, 4305, 5312 .....	\$2.00
CMDS 5309 .....	\$25.00
COMM 3130 .....	\$16.50
COMM 3234 .....	\$22.00
COMM 1373, 2311, 2372, 2374, 2303, 3330, 3383, 3360, 3361, 3380, 4380 .....	\$27.50
COMM 1471 .....	\$33.00
COMM 3381 .....	\$44.00

**HEALTH/KINESIOLOGY**

PEGA 1270 .....	\$15.00
PEGA 1275, 2272, 2271 .....	\$20.00

**PUB. SERV/CONT. ED.**

Off-campus course ..... \$30.00

## Computer Use Fee

This fee primarily supports both the administrative mainframe computer and the academic mainframe computer. The current rate is \$3 per hour with a maximum of \$30.

## 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 \$3 per hour with a maximum of \$30.

## 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).

## 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: Veterans (Hazelwood)**

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 wives, children and dependents 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 60 to 90 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 fees. All other fees are required by either Board of Regents or State statute and cannot be waived. Field center courses have an additional \$20 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 for tuition, Setzer Center fee, student service fee, course fees, library fee, computer use fee and private lesson fees according to the following schedule.

**Fall or Spring Semester**

1. Prior to the first semester day, 100 percent.
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.
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.

No reduction on student services fee or library fee is made unless the I.D. card is returned. No reduction on parking fee is made unless the permit is returned. Refund on property deposit is given only after written request to the Cashier's Office. Photo I.D. Services will replace the ID card when the student returns to the University and is paid in full for the semester. Questions should be directed to the Cashier's Office.

## **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

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 for fall semester 1998. A crosswalk from previous numbers to the TCCN number is Appendix A. the TCCN is primarily for freshman and sophomore courses; however, the prefix has been continued through all levels.

Each course has an alphanumeric code (e.g., Eng 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 may be a sequencing number or if it is a 7, the third digit indicates the course is not in the TCCN. The fourth digit is sequencing number. Applied music (MUAP) courses have been numbered to conform with the TCCN.

In this bulletin, each course title will be followed by three digits separated by colons such as (3:3:1). 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; 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, 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, six 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 period specified in the calendar. A schedule of classes is prepared by the Records Office well in advance of a given semester.

## Minimum Class Enrollment

The University reserves the right not to offer any course listed in this catalog 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, effective Aug. 28, 1995. (For information call 880-8437)

## Class Attendance

Regular class attendance is important to the attainment of the educational objectives of the University. Especially in lower division courses and in large classes at any level, the instructor 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.

## Policy on Student Absences on Religious Holy Days

In accordance with the Texas Education Code 51.911, a student who is absent from classes in observance of a religious holy day will be permitted to take an examination or complete an assignment provided the student notifies his/her instructor within 15 days of the beginning of the semester. "Religious holy day" means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code.

Notifications of planned absences must be in writing and must be delivered by the student either (a) personally to the instructor of each class, with receipt of the notification acknowledged and dated by the instructor, or (b) by certified mail, return receipt requested, addressed to the instructor of each class. Upon review of the request, instructors will sign and date the receipt of the notice, retaining a copy and returning one copy to the student.

Instructors may refer any questions regarding the qualification of the absence to the Vice President for Student Affairs. Students may be required to present to the Vice President for Student Affairs a written statement documenting that such absence qualifies under the terms of a religious holy day.

## Postponed Final Examinations

Arrangements for taking postponed final examinations are made with the instructor concerned and must be approved by the instructor's department chair.



## Course Repetition

A course may be repeated for additional credit only as specified by the official course description in the University Bulletin. 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 grade point average calculation.

## English Requirement

A full-time student (one taking 12 or more semester hours) must register for freshman English Composition until credit for six semester hours has been earned. This policy does not apply during summer terms.

A student's use of English is subject to review before graduation. If found unsatisfactory, additional course work may be prescribed.

## Developmental Studies

To assist students in meeting the requirements of the Texas Academic Skills Program, Lamar University offers courses and laboratory programs at the developmental or pre-collegiate level. Students who fail one or more portions of the TASP examination must be enrolled in at least one developmental program—either a 0371 course or the 0071 laboratory program. For detailed information about courses, laboratories, and policies, contact the Director of Developmental Education (409-880-8954).

### Pre-Collegiate Courses

To serve students whose performances on the TASP examination or the Pre-TASP examination indicate significant under-preparation, pre-collegiate courses are offered in each of the three TASP areas. The following pre-collegiate courses are offered:

#### **DRDG 0371 - Developmental Reading**

Development of basic reading skills as required by the Texas Academic Skills Program (TASP). The course is required for all students who have not passed the state mandated TASP test and must be repeated until the reading portion of the TASP test is passed. Course does not satisfy the general degree requirements for any major.

*Prerequisite: None*

#### **DMTH 0371 - Algebra I and Geometry**

Development of basic algebraic skills as required by the Texas Academic Skills Program (TASP). The course is a prerequisite for DMth 1302 and required for all students who have not passed the mathematics portion of the state's mandated TASP test. This course does not satisfy the general degree requirement for mathematics.

*Prerequisite: DMTH 0071 or equivalent*

#### **DMTH 0372 - Algebra II**

Development of intermediate algebra skills as required by the Texas Academic Skills Program (TASP). The course is a prerequisite for Mth 134 or Mth 1334. 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 as required by the Texas Academic Skills Program (TASP). The course is a prerequisite to English 131 for all students who have not passed the state-mandated TASP writing test; students who do not pass the state test must engage in some type of mandatory remediation until the test is passed. This course neither satisfies general degree requirements for freshman English nor counts toward graduation hours.

## Laboratories

To serve students whose performances on the TASP examination indicate minor degrees of under-preparation, developmental laboratory programs are offered in each of the three TASP areas. The Developmental Math Lab also accommodates the student who is severely underprepared. These laboratories are noncredit programs that prepare students for the TASP examination. Students enter these programs upon approval of the Director of Developmental Education or the Director of Freshman English. The following laboratories are offered:

### **DRDG 0071 – Developmental Reading Lab Program**

This program develops and maintains reading skills as required by the Texas Academic Skills Program (TASP).

*Prerequisite:* DRDG 0371 or a score of 210-230 on the reading portion of the TASP test or PTT.

### **DMTH 0071 – Developmental Math Lab Program**

This program develops and maintains mathematical skills as required by the Texas Academic Skills Program (TASP). It also serves as a prerequisite to DMTH 0371.

### **DWRT 0071 – Developmental Writing Lab Program**

This program develops and maintains writing skills required by the Texas Academic Skills Program (TASP).

*Prerequisite:* DWRT 0371.

Class attendance and active participation in developmental programs are extremely important. State law dictates that a person not attending and participating in class activities is not in compliance with the law. Students not in compliance are subject to administrative withdrawal from the University.

## Physical Activity Course Registration Requirement

All full-time students (those taking 12 or more semester hours) must register for physical activity until they complete two semesters except as follows:

1. Those who are unable to participate in a regular activity course or a modified program of activity because of physical handicaps (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 are exempt from the required physical education courses. Elective hours based upon American Council on Education (ACE) recommendations may be used in lieu of this requirement.

Students exempted from the physical education requirement must submit elective hours 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 their grade point averages 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.

## Changing Schedules

All section changes, adds and drops for Engineering majors, General Studies majors and students who have not passed all parts of the TASP 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 TASP 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 or telephone Voice Response Registration System. 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 form must be completed and approved to be reinstated in a course.

## Withdrawals

Students wishing to withdraw 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. However, if 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 as a student will not be permitted until all financial obligations are cleared. Copies of the withdrawal form signed by the student and by the department chair and 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" is 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 review the issue with their Dean.

## **Enforced Withdrawal Due to Illness**

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 their majors must have the approval of the chair of the department of their former major and approval of the chair of the 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 Office of Records. Change of address forms are available in the Office of Records.

Change of name due to marriage or correction of name because of spelling errors may 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 confidential folder. Students are advised that former names will be carried on all official transcripts.

## **Interchange and Recognition of Credits**

Credit earned at Lamar University-Port Arthur, Lamar University-Orange and the Institute of Technology 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 for academic and technical work. For transfer credit evaluation, an official transcript from each institution must be received by Lamar University Admissions Office.

## **Simultaneous Enrollment**

Students who desire to enroll simultaneously on more than one campus or in more than one institution must have the prior written approval of their Lamar University academic advisor for all classes to be taken. Such approval can 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 due to probation would apply to the total course hours taken at all institutions or campuses. The written approval is to be retained in the student's permanent file.

## Transfer Credit for Correspondence Courses

Lamar does not offer courses by correspondence. However, a maximum of 18 semester hours of correspondence work from an accredited institution 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 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.

## Credit by Examination

Lamar University awards undergraduate credit on the basis of nationally recognized examinations and local advanced standing examinations administered by academic departments. These programs are described below. Advanced Placement testing programs are discussed in the Admissions section of this catalog.

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 and associate's degree requirements as defined in this catalog under "Degree Requirements."

## 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.

## College Level Examination Program (CLEP)

Lamar University awards credit on the basis of most of the Subject Examinations of the College Level Examination Program (CLEP). A complete list is available from the Testing Center. No credit will be awarded for the General Examinations. The essay section of the College Composition Examination is required, but need not be taken in order to qualify for credit on most of the other subject examinations.

The amount of credit awarded to a student who attended college before taking the examination will depend upon which college courses the student had completed before taking the examination. Credit will not be awarded if the student had received prior credit for the same course or its equivalent. Grades will not be assigned and hours will not be used in the computation of grade point averages.

## Academic Progress

### Classification of Students

Students are classified as freshmen, sophomores, juniors, seniors, post baccalaureate and graduate students. For the purpose of determining eligibility to hold certain offices and for other reasons, officially enrolled students are classified as follows:

**Freshman:** all entrance requirements have been met but fewer than 30 semester hours have been completed;

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

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

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

**Post baccalaureate:** holds a bachelor's degree, but is not pursuing 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 accepted for and is pursuing a graduate degree (see graduate studies catalog); and

A full-time student is an undergraduate student taking 12 or more semester hours in the fall or spring (six 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 financing reduce payments to students dropping below full-time status.

### Grading System

**A - Excellent**

**B - Good**

**C - Satisfactory**

**D - Passing**

**F - Failure**

**I - Incomplete**

**W - Withdrawn from University**

**Q - Course was dropped**

**S - Credit**

**U - Unsatisfactory, no credit**

**NG - No grade**

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. A grade may not be recorded for a student not officially enrolled in a course. A grade may not be corrected or changed without the written authorization of the instructor giving the grade. The grade change form

requires a reason for the change and must be signed by the instructor and department chair. If the grade change is over a year old, the dean must sign the form also.

A student desiring to register for a course to receive a grade of "NG" 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 No Grade "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 honors and certain special degree requirements.

In order to compute grade 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.

Grade point averages for students in certificate, diploma and associate degree programs are calculated in the manner prescribed for baccalaureate programs, with one exception. A student in one of these programs who passes a course at the same institution where the student previously received a failing grade "F" or "U," will have only the passing grade and its associated grade points applied toward any certificate, diploma or associate degree. After the course is repeated, the student must file a request for a grade point adjustment with the Records Office. Any adjustment to a grade point average made during the time a student was enrolled in an applicable course of study is disregarded once the student enters a four-year program.

## 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 University 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 Grade Report

Reports on grades are mailed at the end of each regular semester or summer term. These reports include the semester grades and the grade point average for the semester, and for all work attempted at the University. Students should report any errors or discrepancies to the Records Office.

## Deans' 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 Deans' 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 will be included in the President's List. Any student with an "I" grade is ineligible for Deans' List or President's List consideration until the "I" is officially changed.

## 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 sus-



pended 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 this provision 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 a maximum of 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.

## Degree Requirements

### General Education Requirements – Bachelor 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 which does not include the required two semesters of physical education and Health 1370. 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 successfully Health 1370 and two semesters of physical activity.
5. Complete the program of study for the major listed in the bulletin.
6. Make application for the bachelor's degree and pay all the designated fees.
7. Attend the official graduation exercise.

## **Second Bachelor 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. A second bachelor's degree is not eligible for honors.

## **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;
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 preadmission 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;
7. Make final application and pay all fees by the deadline date as stated in the current Catalog.

## **Graduation**

### **Application for Graduation**

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

1. Requests the sponsoring department to send an approved degree plan to the Records Office by the due date listed in the current catalog,

2. Proof of eligibility for admission must be in the student's file,
3. Submits all transcripts of college coursework from non-Lamar University, Beaumont institutions to the Records Office,
4. Achieves 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. Completes application for graduation in the Records Office and pays necessary fees for cap, gown and diploma by the deadline listed in the current catalog;
6. Clears all financial and property matters by the deadline.

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 normally 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.

### Graduation Honors

To be designated as honor graduates, members of the graduating class must (1) have completed at least 60 semester hours at Lamar University, Beaumont, for a four-year degree or 30 semester hours for a two-year degree, (2) have a grade point average of at least 3.5 for all course work attempted at Lamar University, Beaumont. If conditions (1) and (2) are satisfied, all transfer credit and grade points are added to Lamar University, Beaumont, and if the combined grade point average is above 3.5, the student is awarded

honors. A combined grade point average of 3.5 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 grade point averages for honors. Honor graduates will be recognized during graduation ceremonies. Second associate or bachelor degrees are not eligible for honors.

## Student Affairs

The Division of Student Affairs is administered by the Vice President of Student Affairs who, as the chief student affairs administrator of the University, reports to the President. The primary responsibilities of the Division are to provide services and programs that enhance the general education and development of students, enrich the quality of student life and support the teaching, service and research missions of the University.

The Division consists of the Office of Student Affairs, the Setzer Student Center, the Student Health Center, Recreational Sports, Student Publications, University Police, Parking and the Career Center.

### Office of the Vice President of Student Affairs

The Vice President of Student Affairs provides primary 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*. 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 Student Affairs Office.

### Career Center

A full range of testing services are provided at 102 Galloway Business Building for aptitude, achievement, and career interests. Professional staff assist students with concerns, questions, problem solving, adjustment, decision making, goal planning, testing and skill development. Staff will refer students to other offices and personnel in accord with the needs and interests of the individual.

Educational counseling is available. 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.

The Center coordinates testing required by the University; provides individual interest, aptitude, and personality assessment; and, as a National Test Center, administers the following:

- SAT (Scholastic Aptitude Test) for undergraduate admissions. The SAT II Subject Area Tests are also given for students who wish to receive college credit (See Subject Area Tests).
- ACT (American College Testing Program) may be used instead of the SAT for undergraduate admissions.
- TASP (Texas Academic Skills Program) is required of all students before completion of 9 semester hours (unless exempted)
- PreTASP is used for some students in the admissions process to determine if developmental courses and special advising are needed for the student to have academic success.

- 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 required for admission to many graduate schools.)
- GMAT (Graduate Management Admission Test) is required for admission to graduate Colleges of Business.
- LSAT (Law School Admission Test)
- MCAT (Medical College Admission Test)
- MAT (Miller Analogies Test) required for admission to some graduate programs.

Information and registration forms are available at 102 Galloway Building, (409) 880-8444.

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 on 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 teachers career fair is held in April each year and features sixty school district recruiters to interview teaching candidates.
- 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, hard copy and computer formats.

## Setzer Student Center and Student Activities

The Richard W. Setzer Student Center and the student activities program are administered by the Director of the Setzer Student Center. The Director is assisted by the Assistant Director for Programs and the Assistant Director for Student Organizations.

The Setzer Student Center provides facilities for leisure-time recreation and it is the campus center for many extracurricular activities and programs. Facilities and services include an information center, game areas, a TV room, locker rentals, the reservations office, a ballroom, various meeting rooms and lounges, Mirabeau's Pub, and the Cardinal Nest, a fast food operation. Commercial businesses housed in the Center include the Lamar University Bookstore and a boutique.

Housed in the Center are the offices of Lamar Alive!, Student Government Association, Student Organizations, Student Publications and the professional staff members who serve as advisors to these organizations and to many others.

## Student Organizations

More than 120 student organizations are currently active at Lamar and offer student membership opportunities in one or more of the following groups: professional, religious, academic class, mutual interest, honor, sorority, fraternity, spirit and sports or activity groups. Participation in student organization activity enhances the education of students, who are strongly encouraged to affiliate with the organization(s) of their choice and participate in the programs.

## **Lamar Alive!**

Setzer Student Center Council (Lamar Alive!) is the student organization responsible for providing the campus with a variety of programs and extracurricular activities, using the Setzer Student Center for a majority of its functions.

Lamar Alive! consists of three student directors who book concerts, performing arts, special events, film/video, forum and travel. Membership is open to all students who meet the University's extracurricular activity policy standards.

## **Student Government Association**

The Student Government Association serves as the representative voice of students; as a major facilitator of new and improved student services and programs and in 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.

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 opinions may be expressed at the open meetings of the Senate, or ideas, suggestions and/or concerns may be submitted through SGA suggestion boxes at various campus locations.

The Student Government Association office is located in Room 212 of the Setzer Student Center.

## **Residence Hall Association**

The Lamar Residence Hall Association (RHA) is the umbrella organization for individual residence hall councils and provides a voice for campus residents. RHA is also a component of the programming body for the residence halls. Social, educational and service programs are designed to enhance the quality of life in the residence halls. Every resident student is represented by RHA and is encouraged to participate in its programs and activities.

## **Health Center**

The University maintains a Health Center for use by Lamar University, Beaumont, students for outpatient services. The student Health Center offers medical services, use of the pharmacy, short-term psychological counseling, and health education to students presenting a current validated ID during regular hours when the University is in session. When the University is not in session, health care becomes the individual student's responsibility.

A physician is available during regular hours to treat students for minor acute illnesses or injuries that do not require constant supervision. No appointment is needed and students are charged only for medications and supplies, not for the doctor's visit. More extensive laboratory tests and x-rays are available if requested by the Health Center Director or physician. Should the need arise, expenses incurred for ambulance service or off-campus medical services become the responsibility of the student.

## **Recreational Sports**

All faculty, staff and currently enrolled students with a valid Lamar ID card have access to the recreational facilities and may participate in the wide variety of activities that

are offered. The Recreational Sports Office is responsible for organizing the activities, which are arranged into four different levels of involvement and competition.

The Recreation Program offers the use of the University's facilities for free-time recreation. Published schedules and reservations allow the student, faculty or staff member to exercise and enjoy competition with friends at a leisurely pace. Sports equipment is available to be checked out for overnight and weekend excursions or club activities.

The Intramural Program provides an opportunity to participate in supervised, competitive sports between groups within the University community. Persons not involved in varsity athletics are given further opportunity to develop skills learned at the high school level. Organizations may place teams in the all-Sports Division, which consists of competition in 25 different sports or choose the Independent Division, in which specialization in one or more sports may be chosen. The stated purpose of the Intramural Program is to promote human understanding, fair play and behavioral control through the interrelationships occurring in athletic competition.

Sports Clubs are made up of individuals interested in a special sport and who seek competition beyond the boundaries of the University. Further information on any facet of the Recreational Sports Program may be obtained from the Recreational Sports Office, Room 106 of McDonald Gym.

## **Student Publications**

University Student Publications include the University Press, a campus student newspaper published twice a week during the long semesters. The University Press, with offices at 200 Setzer Student Center, serves as a training opportunity for students interested in journalism.

## **Student Life**

### **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.

Any full-time student not on disciplinary or scholastic probation, who is regularly registered, is eligible to become a candidate and/or to hold student office or to represent the University in any extracurricular activity provided such student has a grade point average of at least 2.0 for both the total of college work completed at Lamar and that of the preceding semester.

For the purpose of establishing eligibility, two six-week summer terms may count as one semester.

Transfer students have the same eligibility as freshman students until completion of one semester.

### **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.

## **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 chief student affairs officer 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.

## **Disciplinary Action**

A student is subject to disciplinary action for unacceptable behavior, as outlined in the Student Handbook. The chief student affairs officer 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.

## **Parking**

Each student who pays the necessary fee is issued a vehicle card that permits parking on the campus. This card is numbered and is to be displayed as instructed in official parking and traffic regulations, which are issued when vehicles are registered. Strict observance of traffic and parking regulations is necessary for the safe, orderly flow of vehicles in the campus area.

## **Housing**

The Department of Housing at Lamar University provides students with an educational environment for social and intellectual development. The staff and residents of the residence life community are 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.

## 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.

If you have any questions regarding the University Residency Policy, please contact the Lamar University Housing Office at (409) 880-8111.

## Room Assignments

The Department of Housing staff 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 Hall Directors can take into consideration this information when matching roommates.

Hall Directors will make every effort to accommodate specific roommate requests; however, the Department of Housing 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.

Residents who turn in their signed Residence Hall/Food Service Contract form and their deposit before August 1 will have their room assignment mailed to their permanent address. Residents will also receive the name and phone number of their roommate. Any student who sends his or her contract in after August 1 will receive their room assignment when he or she arrives at check-in.

## Food Services

The Department of Food Services at Lamar University strives to provide students with the best possible dining experience. The following meal plans include a declining balance which entitles the student to cash purchases at any Food Service facility on campus:

19 Meal Plan - all 19 meals served each week plus \$100.00 declining balance

14 Meal Plan - any 14 of the 19 meals served each week plus \$50.00 declining balance

10 Meal Plan - any 10 of the 19 meals served each week plus \$25.00 declining balance

5 Meal Plan - any 5 of the 19 meals served each week plus \$300.00 declining balance

In addition to the Meal Plans, Food Services also has Cardinal Cash available. Cardinal Cash is an excellent and convenient way to pay for dining purchases while at the same time taking advantage of discounted pricing. Cardinal Cash can be purchased in \$50.00 increments.

All students may use the Dining Hall and may purchase meal plans through Food Services. Additionally, a schedule of serving hours and a more complete description of

the services offered to students is available at the Food Service office in the Main Dining Hall and at the Department of University Housing office.

## **Housing Fees**

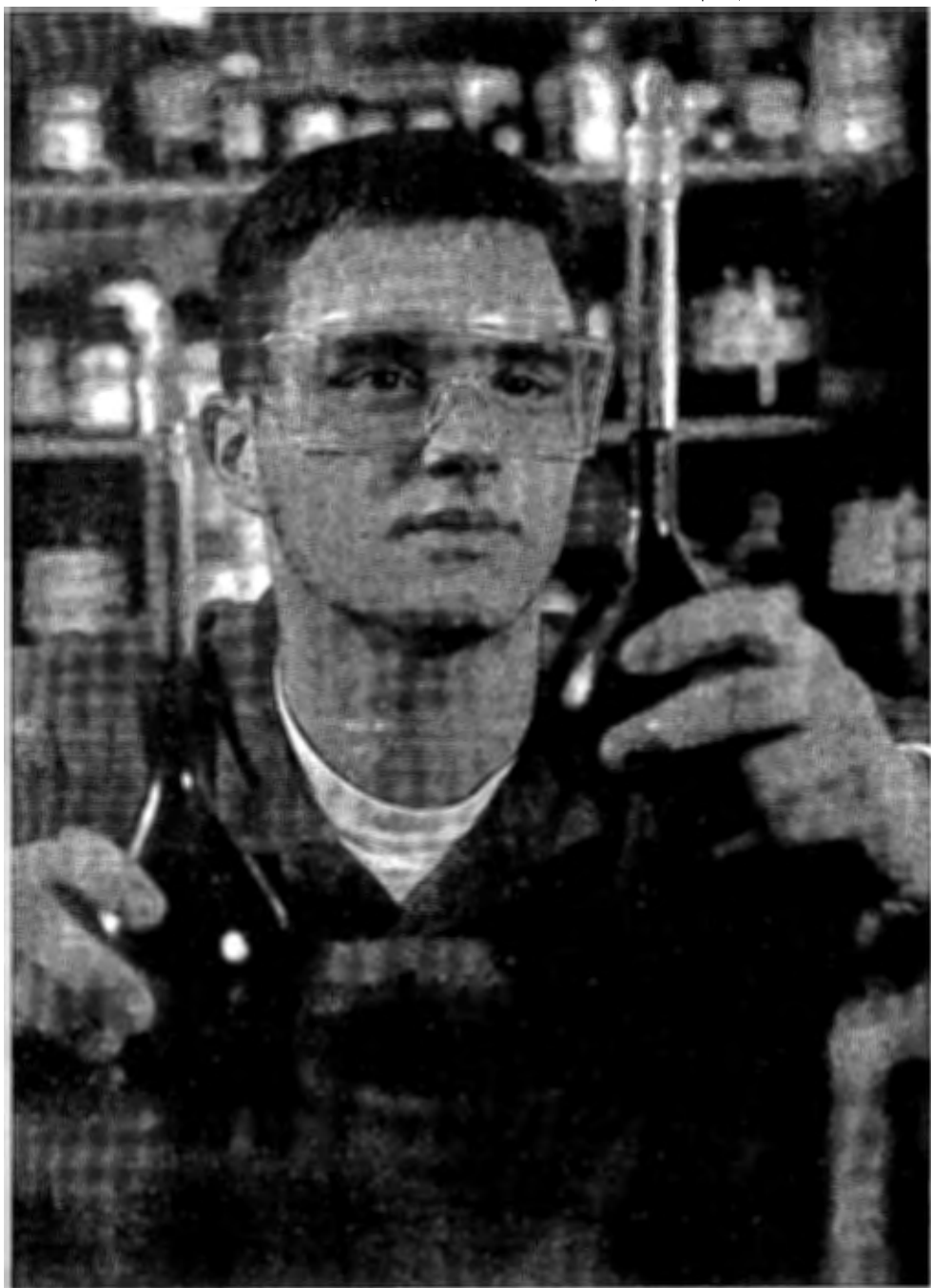
The Residence hall contract is for a full academic year (August through May). Specific room rates are listed in the contract booklet. Room and board fees are charged to the students account each semester and may be paid either as a lump sum (all at once) or in installments. The installment schedule is listed in the contract booklet.

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 certain date, the student will be dropped from his or her classes.

For additional information and application forms, write University Housing Office, Lamar University Station, P.O. Box 10041, Beaumont, Texas 77710.



*Refreshing sounds of cascading water serenade students as they study beneath shady oaks in the Quadrangle, the center of campus.*



*Students in chemistry build on the fundamentals with the benefit of state-of-the-art instrumentation and well-qualified faculty to advance their level of study.*

## College of Arts and Sciences

**Departments:** Biology, Chemistry, English and Foreign Languages, Géology, History, Nursing, Physics, Psychology, Political Science, and Sociology, Social Work and Criminal Justice.

**Miriam J. Shillingsburg, Dean**

**100 Health Sciences Building**

**Phone 880-8508**

### Organization and Function

The College of Arts and Sciences contains 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 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 and chemistry.

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 and the Environmental Chemistry Laboratory.

### 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 relationship 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.

## Degree Offerings

### Associate of Applied 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 General Studies

#### Bachelor of Science with majors in the following fields:

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

### Bachelor of Social Work

Graduate programs are offered in biology, chemistry, English, history, psychology and public administration. The Criminal Justice Program, 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 enrollment 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 whose unsatisfactory work includes an "I" grade and whose grade point deficiency is less than 25 grade points if calculated without the "I."
2. A student who compiles exactly a 2.0 GPA after returning from a suspension.
3. 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.
4. A student in college for the first time at the end of the first semester of attendance.

## University Honors Program

**Director:** Sam F. Parigi

**216 Galloway Building, Phone 880-8652/1752**

The Honors Program at Lamar University is designed for motivated, superior academic students of all majors. To be eligible for the program, an entering freshman must possess a score of 1120 on the SAT and make application to the Director. College students in the program, or those seeking admission, must maintain a 3.1 grade point average.

Besides the prestige of having been selected for an accelerated academic program, other benefits of participation are small classes, interdisciplinary courses, outstanding faculty, enriched curriculum for satisfaction of core requirements and the esprit de corps generated by the interaction of superior students and Honors faculty. Direction for the program comes from the University Honors Council which consists of faculty and administrators from all Colleges of the University.

Special recognition is given to Honors Program Graduates at the Commencement ceremony, including the wearing of an Honors medallion. To achieve Honors Program Graduate status, a student must complete at least twenty-four hours of Honors classes with a minimum 3.1 grade point average and a minimum of six hours of Honors classes at the junior-senior level (three hours of which will be a thesis on a topic approved by the Honors Council).

## Honors Core Curriculum Courses

All Honors core curriculum courses are especially designed for the Honors Program and meet university core curriculum requirements. See appropriate departmental listings for descriptions not included.

### **CHEM 1460 Honors General Chemistry**

**4:3:3**

Satisfies 4 hours of 8-hour Core Curriculum laboratory science requirement.

*Prerequisite:* see departmental listing.

### **COMM 1360 Honors Public Speaking**

**3:3:0**

Satisfies speech requirement in Core Curriculum.



- COSC 3360 Honors Computer Law & Ethics** 3:3:0  
Provides sufficient skills in statistical analysis to handle some elementary applications in social science research and to deal with concerns raised by computers in modern society, such as ethics, privacy, computer crime.  
*Satisfies 3-hour Core Curriculum requirement in mathematical science/methods of qualitative data analysis. May not be substituted for mathematic science (algebra or above).*
- ECON 3360 Honors Seminar in Global Economics** 3:3:0  
Investigates and describes the interdependence of world economies. Subjects include supply and demand, international trade and finance, comparative economic systems, growth and third world nations, national economic coalitions, and current economic issues.
- ENGL 1360 Honors Rhetoric & Composition** 3:3:0  
Satisfies complete 6-hour Core Curriculum freshman composition requirement (ENGL 1301 and ENGL 1302 or 1374).
- ENGL 2360 Honors Sophomore Literature** 3:3:0  
Satisfies 3-hour Core Curriculum literature (ENGL 2331 or 2322 only) or foreign language requirement.
- HIST 1361 Honors American History: History of the United States, 1763 to 1877.** 3:3:0  
Satisfies 3-hour Core Curriculum history requirement.
- HIST 1362 Honors American History: History of the United States, 1877 to the present** 3:3:0  
Satisfies 3-hour Core Curriculum history requirement.
- HIST 2660 Honors The American Experience** 6:5:0  
Interdisciplinary survey of American civilization, with emphasis on American history and literature.  
*Meets five times per week; grants 9-hours credit, inclusive of Core Curriculum 6-hour American history (HIST 1301 and 1302) requirement and 3-hour American literature (ENGL 2326 only) requirement.*
- HUMA 1360 Honors Society and the Arts** 3:3:0  
Interdisciplinary focus on the interrelationship of the fine arts (art, music, drama), with particular emphasis on the fine arts as expressions of culture.  
*Satisfies 3-hour Core Curriculum fine arts requirement.*
- MATH 1460 Honors Calculus and Analytic Geometry** 4:4:0  
Satisfies Core Curriculum mathematical science (algebra or above only) requirement.  
*Prerequisite: see departmental listing.*
- PHIL 1360 Honors Philosophy of Knowledge** 3:3:0  
Satisfies Core Curriculum philosophy of knowledge requirement.
- SOCI 3360 Honors Human Nature and the Human Condition** 3:3:0  
A multidisciplinary investigation of the issue of human nature from the viewpoints of anthropology, psychology and sociology. Examines modern culture and society with special attention to problems having worldwide impact: poverty, over-population, environmental degradation, refugees and drugs.

## Senior Honors Courses (HNRS)

- HNRS 4360 Honors Environment & Ecology** 3:3:0  
A multidisciplinary survey of the many dimensions of protecting our natural resources and quality of life. Topics include ecological systems, threats and damage to the environment and alternatives, national and international regulatory agencies and standards and activities of private environmental groups.
- HNRS 4361 Honors Thesis** 3:3:0  
Six-hours guided research, writing and defense of selected topic in major discipline(s) of study; topic to be selected and submitted for Honors Council approval during junior year.

## Bachelor of Science – Environmental Science

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.

**Program Director:** Richard C. Harrel

**205-10H Biology, 880-8255**

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, 4406, 4430, 4460
- C. Chemistry:  
CHEM 1411, 1412, 2401, 3411, 4481
- D. Science and Mathematics:  
PHYS 1401, 1402  
COSC 1371  
PSYC 2471  
MATH 2376  
GEOL 1403, 3390 or 4361, 4370  
CVEN 3310  
6-9 hrs. approved electives
- E. POLS 4390 or BULW 3330
- F. Participate in internship

### First Year

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

### 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

Third Year		Fourth Year	
BIOL 4406 .....	4	PHYS 1401, 1402 .....	8
CHEM 2401 .....	4	BIOL 4430 Limnology .....	4
CHEM 4481 .....	4	GEOL 3390 or 4361 .....	3
CVEN 3310 .....	3	GEOL 4370 .....	3
GEOL 1403 .....	4	HIST 1301, 1302 .....	6
POLS 4390 or BULW 3330 .....	3	Electives, approved* .....	6-9
ENGL 3310 .....	3	Internship** .....	3
Fine Arts .....	3		
PEGA .....	2 or 4		
	30-32		33-36

\*Recommended electives BIOL 4401, 4300, 4401, 4450, CHEM 3331, GEOL 4451, 4301, 4330.

\*\*Must be approved by Program Director

## 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 obtaining Senior status.

## Bachelor of General Studies

**Academic Director:** Madelyn D. Hunt

**200 Archer Building, Phone 880-8907**

The Bachelor of General Studies degree 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 program advisor, normally with a minimum of thirty upper division hours and at least nine hours in three disciplines. More advanced hours are encouraged. Normally at least nine hours of these upper-level courses will be 4000 level.

## University Advising Centers

### Center for General Studies and Central Advising

**Academic Director: Madelyn D. Hunt**      **200 Archer Building, Phone 880-8907**

The University provides a central advising center to assist students with enrollment and course selection as well as to provide counseling on academic progress and academic options. The Center for General Studies and Central Advising 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; they may take no engineering courses, but 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 College's probation and suspension policy.

Consult the specific discipline sections of this catalog to identify advisors and advising centers for specific programs. Any student may contact the Center for General Studies and Central Advising for directions to the appropriate advisor or advising center.

## 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 University Institute of Technology.

## Pre-Law

**Advisors: Terri B. Davis**  
**Boyd L. Lanier**

**83 Maes Building, Phone 880-8533**  
**106 Montagne Building, Phone 880-8534**

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:** Hugh Akers

**217 Chemistry Building, Phone 880-8267**

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 only two to three years of college preparation, greater than 90 percent of the students actually accepted will have had four years of college. Thus, since "pre-dent" or "pre-med" majors 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.

Various 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 program 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 Comp .....	6	BIOL .....	8*
BIOL 1406, 1407 General .....	8	CHEM 3411, 3412 Organic .....	8
CHEM 1411, 1412 General .....	8	PHYS 1401, 1402 General .....	8
MATH 2413 or 2376 Calculus I .....	3-4	HIST 1301, 1302 American .....	6
PEGA .....	2	Degree requirements .....	3
Degree requirements .....	6		
33-34		33	

### Third and Fourth Years

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

The Dental School at the University of Texas Health Science Center at Houston requires CHEM 4411. This course is highly recommended by all other medical/dental colleges. Pre-dental students should begin the application procedure at the end of the second year (see pre-dental advisor).

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

## Pre-Optometry

### Suggested Program of Study

First Year		Second Year	
Engl Comp .....	6	BIOL 2420 Microbiology .....	4
BIOL 1406, 1407 .....	8	BIOL 3440 Adv. Physiol .....	4
CHEM 1411, 1412 .....	8	CHEM 3411, 3412 Organic .....	8
MATH 2312 Precalculus I .....	3	PHYS 1401, 1402 General .....	8
MATH 2376 or 2413 .....	3-4	Engl Lit .....	6
PEGA .....	4		
32-33		30	

### Third and Fourth Years

CHEM 4411 Biochem .....	4
PSYC 2301 Introduction .....	3
PSYC 2471 Statistics .....	4
BIOL 2428 (or 2401 + 2402) anatomy .....	4-8
remaining courses required for any BS degree	

## Pre-Veterinary Medicine

### Recommended Program of Study

First Year	Second Year
Engl Comp ..... 6	BIOL 2420 Microbiology ..... 4
BIOL 1406, 1407 General ..... 8	BIOL 3470 Genetics ..... 4
CHEM 1411, 1412 General ..... 8	CHEM 3411, 3412 Organic ..... 8
MATH 2376 or 2413 or 1342 ..... 3-4	PHYS 1401, 1402 General ..... 8
PEGA ..... 4	HIST 1301, 1302 ..... 6
Degree requirements ..... 3-6	Engl Lit ..... 3
	Degree requirements ..... 3
32-36	36

### Third Year

CHEM 4411 Biochemistry ..... 8
POLS 2301, 2302 ..... 6
ENGL 3310, Tech. Report Writing ..... 3
COMM 1315 Public Speaking ..... 3
Degree requirements .....

## Pre-Pharmacy

### Advisor

217 Chemistry Building, Phone 880-8267

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 will meet the requirements of the four schools. It is suggested that the prepharmacy students consult with the prepharmacy advisors and contact the individual pharmacy schools to which they plan to apply.

### Recommended Program of Study

First Year	Second Year
BIOL 1406, 1407 ..... 8	BIOL 2420* ..... 4
CHEM 1411, 1412 ..... 8	CHEM 3411, 3412 ..... 8
Engl Comp ..... 6	Engl Lit ..... 6
MATH 2376 (or 2413), 1342 ..... 6-7	HIST 1301, 1302 ..... 6
PEGA ..... 4	Fine Arts (see LU core) ..... 3#
	Soc Sci (see LU core) ..... 3
32-33	30

### Third Year

PHYS 1401 ..... 4
COMM 1315 ..... 3
POLS 2301, 2302 ..... 6
Degree requirements .....

\*Replace with BIOL 2428 for Texas Southern.

#Replace with 6 hours from PHIL 1370, 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 Applied 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 Arts and Sciences departments offer approved programs which enable students to secure the bachelors degree in one of the Arts and Sciences and at the same time certify for a provisional secondary certificate with teaching field in that Arts and Sciences discipline.

Students wishing to certify for a provisional certificate with social studies as a teaching field (secondary, option IV) should consult the Chair, Department of Political Science.

Students wishing to certify for a provisional certificate with Psychology as a teaching field (secondary, option II) should consult the chair, Department of Psychology.

## 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 student prepare themselves for choosing possible career goals and for entering the job market.

## 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 Departments 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, Turco, Warren

**Associate Professors:** Runnels

**Assistant Professors:** Brunell, Nicoletto

A student majoring in one of the three Baccalaureate degrees offered by the department of Biology (Biology, Medical Technology, and Environmental Science) quickly understands that the biological sciences have foundations in the supporting sciences of chemistry, physics and mathematics.

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. There are also sufficient hours of free electives so that a Biology major could obtain secondary teaching certification simultaneously. The faculty is housed in the Hayes Biology building and in the Science Auditorium. Field based study is also available at the Dujay Sanctuary in the Big Thicket and at the Marine Station at Pleasure Island near Port Arthur.

The areas of expertise and research interests of the faculty include Behavior, General Physiology, Developmental Biology, Ecology, Limnology, Cytogenetics, Microbiology, Epidemiology, Oceanography, Parasitology, Entomology, Epidemiology, Invertebrate Fish, Reptile and Mammal Biology.

### Bachelor of Science – Biology Major

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, etc., or one of the other areas 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 the 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 that 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, p. 15.

**B. Major:**

Core courses, see list below - 20 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 Physiology - three or four semester hours

Statistics - four semester hours

**D. Electives:**

Sufficient electives to complete a total of 139 semester hours.

**Suggested Program of Study****First Year**

Engl Comp .....	6
BIOL 1406, 1407 General .....	8
CHEM 1411, 1412 General .....	8
MATH 2312 Precalculus .....	3
MATH 2376 Calculus .....	3
PHIL 1370 .....	3

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**Second Year**

Engl Lit .....	6
CHEM 3411, 3412 Organic .....	8
PHYS 1401, 1402 General .....	8
**BIOL selected from core .....	8
HLTH 1370 .....	3
COMM 1315 .....	3
PEGA .....	2

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**Third Year**

POLS 2301, 2302 .....	6
Electives .....	4
PSYC 2471 Statistics .....	4
**Biol selected from core .....	12
Biol Elective .....	8
CHEM 4411 or four hours Subcellular Bio ..	3-4

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**Fourth Year**

BIOL 4160, 4170 Biol Lit .....	2
Biol Electives .....	4
Electives .....	14
Am Hist .....	6
Fine Arts .....	3
Social Science .....	3

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**\*\*The following courses must be included in the Biology Core: BIOL 2520, Microbiology; BIOL 3460, Invertebrate Zoology; BIOL 3450, Botany; BIOL 2428 or 4440, Comparative Anatomy or Vertebrate Natural History; BIOL 3470, Genetics.**

**Teacher Certification – Biology**

A student wishing to certify to teach 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.

## \*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
PHIL 1370 .....	3
MATH 2376 Calculus .....	3

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### Second Year

CHEM 3411, 3412 Organic .....	8
BIOL 2428 Comparative Anatomy or 4440 Vert Natural Hist .....	4
BIOL 2420 Microbiology .....	4
PSYC 3420 Methods .....	4
Engl Lit .....	6
HLTH 1370 .....	3
***Psync Advanced .....	3
PEGA .....	2

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### Summer

POLS 2301, 2302 .....	6
Fine Arts .....	3
Computer Science .....	3

12

### Third Year

Am Hist .....	6
PHYS 1401, 1402 General .....	8
BIOL 3470 Genetics .....	4
BIOL 3450 Botany .....	4
PSYC 4430 Experimental Psy .....	4
***Psync Advanced .....	9

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### Fourth Year

BIOL 3460 Invert Zoology .....	4
BIOL 4160, 4170 Bio Lit .....	2
**Biol Electives .....	12
***Psync Advanced .....	6
Electives .....	13

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\*Both degrees must be awarded simultaneously.

\*\*Biology Electives chosen from Bio 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 Comp .....	6
MATH 2312 Precalculus .....	3
MATH 2376 Calculus .....	3
Electives .....	6
PHIL 1370 .....	3

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### Second Year

CHEM 3411, 3412 Organic .....	8
MATH 2377 Calculus .....	3
Engl Lit .....	6
PHYS 1401, 1402 General .....	8
Biol Elective .....	4
HLTH 1370 .....	3
PEGA .....	2

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**Summer**

PHYS 3350 Modern .....	3
***Biol Elective from Core .....	4
CHEM 2401 Quantitative .....	4
Social Science .....	3
	<hr/>
	14

**Third Year**

Biol selected from core*** .....	16
Am Hist .....	6
CHEM 4131, 4132 Physical Lab .....	2
CHEM 3331 Inorganic .....	3
CHEM 4311, 4312 Physical .....	6
Fine Arts .....	3

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**Fourth Year**

BIOL 4160, 4170 Bio Lit .....	2
Biol Electives .....	8
CHEM 4411 Biochem .....	4
Chem Electives* min .....	8
Electives .....	4
Social Science .....	3
POLS 2301, 2302 .....	6

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†Both degrees must be awarded simultaneously.

\*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 2428 or 4440, Comparative Anatomy or Vertebrate Natural History; BIOL 3470, Genetics.

## Bachelor of Science – Medical Technology

**Major Advisors:** M.D. Hunt  
C.P. Turco

**205-12 Hayes Building, Phone 880-8254**  
**205-2 Hayes Building, Phone 880-8260**

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, p. 15.

**B. Multidisciplinary Major:**

Biology: 1406, 1407 General, 2420 Microbiology, 2476 Medical Microbiology, 3440 Advanced Physiology, 4410 Parasitology, 4405 Immunology

Chemistry: 1411, 1412 General, 3411, 3412 Organic, 4411 Biochem or BIOL 4301 Cell Physiology

Physics: 1401, 1412 General

**C. One year internship. (See Fourth Year Clinical Training.)**

## Suggested Program of Study

### First Year

Engl Comp .....	6
BIOL 1406, 1407 General .....	8
CHEM 1411, 1412 General .....	8
COSC 1371 .....	3
MATH 2312 Precalculus .....	3
PEGA 2 sem .....	4
PHIL 1370 .....	3

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### Second Year

ENGL 3310 Sci Report Writing .....	3
Engl Lit .....	3
BIOL 2420 Microbiology;	
BIOL 2476 Med Microbiology .....	8
CHEM 3411, 3412 Organic .....	8
PHYS 1401, 1412 General .....	8
HLTH 1370 .....	3
Social Science .....	3

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### Third Year

BIOL 3440 Adv Physiology .....	4
BIOL 4405 Immunology .....	4
CHEM 4411 or BIOL 4302 .....	3-4
Am Hist .....	6
BIOL 4410 Parasitology .....	4
PSYC 2471 Statistics .....	4
POLS 2301, 2302 .....	6
COMM 1315 .....	3
Fine Arts .....	3

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## Fourth Year Clinical Training

All the above requirements for the degree must be met before a student may be admitted to clinical training, 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 as the student pays no tuition.

## Directors of Medical Technology Programs

\*Denotes Formal Affiliation

**Program Director:**

Judy Jobe, MT

**Medical Director:**

Abdus Saleem, M.D.

Methodist Hospital\*

6565 Fannin-Mail Station 205

Houston, TX 77030

(713) 790-6353

**Program Director:**

Sheryl White Handy, MT (Ext. 7520)

**Medical Director:**

Lehrue Stevens, M.D.

St. Patrick's Hospital\*

524 S. Ryan St.

Lake Charles, LA 70601

(318) 491-7708

**Program Director**

Karen Rogge-McClure

**Medical Director:**

Jeffrey J. Tarrand, M.D.

M.D. Anderson Cancer Center

1515 Holcombe Boulevard, Box 037

Houston, TX 77030

(713) 745-1688

1-800-551-9503

**Program Director:**

Deborah Zink, M.B.A., MT

**Medical Director:**

Terry W. Bell, M.D.

St. Elizabeth Hospital\*

P.O. Box 5405

Beaumont, TX 77706

(409) 899-7150

**Program Director:**

Vicki Freeman, Ph.D.

**Medical Director:**

Alexander Indrikovs, M.D.

School of Allied Health Sciences

University of Texas Medical Branch

Galveston, TX 77550

(409) 722-3055

## 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, 1412 General .....	8
CHEM 1411, 1412 General .....	8
MATH 2312 Precalc .....	3
PSYC 2301 Intro .....	3
SOCI 1301 .....	3
PSYC 2308 Child .....	3

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**Second Year**

PHYS 1401, 1412 .....	8
Elective .....	3
COMM 1315 .....	3
BIOL 2401, 2402 Anatomy & Physiology .....	8
PSYC 2471 Statistics .....	4
HIST 1301, 1302 .....	6
BIOL 4101 Med Terminology .....	1

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**Third Year**

BIOL 3440 Advanced Physiology .....	4
Engl Lit .....	3
Psyc Elective .....	3
PSYC 4320 Abnormal .....	3
MGMT 3310 .....	3
COSC 1371 .....	3
Electives .....	7
POLS 2301, 2302 .....	6

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

Texas physical therapy schools have changed to six-year master's degrees. The student should formulate a contingency plan to obtain a bachelor's degree at Lamar while completing the pre-clinical courses given 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 (M.S.), Dallas, San Antonio (M.S.), El Paso (M.S.)  
 Texas Woman's University: Denton, Dallas and Houston (M.S.)  
 Baylor: U.S. Army San Antonio (M.S.)  
 Southwest Texas State Univ. San Marcos (M.S.)  
 Texas Tech. Univ. Lubbock (M.S.)  
 Hardin-Simmons Univ. Abilene (M.S.)

**Pre-Occupational Therapy**

**Major Advisor:** M.E. Warren

**101 Hayes Building, Phone 880-8262**

Occupational therapists aid their 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**

Engl Comp .....	6
BIOL 2401, 2402 Anat and Physiol .....	8
CHEM 1411 General .....	4
PSYC 2301 .....	3
PSYC 2471 Statistics .....	4
PSYC 2308 Child .....	3
PSYC 2376 Adult Dev. & Aging .....	3

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**Second Year**

Engl Lit .....	3
COMM 1315 Speech .....	3
HIST 1301, 1302 .....	6
POLS 2301, 2302 .....	6
SOCI 1301 .....	3
Sociology or Psychology .....	3
BIOL 1406, 1407 General .....	8
COSC 1371 Computer Science .....	3

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Plus two years clinical affiliation

Junior and Senior years are spent at Galveston, El Paso, San Antonio or Lubbock institutions for the clinical phases of the program.

**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 taking a medical history, routine physical exams and other such duties which the physician may assign.

**First Year**

Engl Comp .....	6
MATH 1314 Algebra .....	3
BIOL 2401, 2402 Anat and Physiol .....	8
PSYC 2301 Introduction .....	3
PSYC 2308 Child .....	3
HIST 1301, 1302 .....	6
Electives (minimum) .....	3

32

**Second Year**

CHEM 1411, 1412 .....	8
BIOL 1406, 1407 General .....	8*
Engl Lit .....	3
POLS 2301, 2302 .....	6
OMM 1315 .....	3
SOCI 1301 .....	3
BIOL 2420 Microbiology .....	3

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Plus junior and senior years clinical training at Dallas, Galveston 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 has a M.S. program. Applicants should have a B.S. in an appropriate field.

\*Dallas requires

**Biology Courses (BIOL)**

- 4101 Supplemental Laboratory** 1:1:0  
This course allows a transfer student to make up one laboratory deficiency at the introductory level. Departmental approval is required to enroll.
- 1470 Introductory Biology** 4:3:2  
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.
- 1471 Introductory Biology** 4:3:2  
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.



<b>1406</b>	<b>General Biology</b>	<b>4:3:2</b>
	A survey of organisms, molecules, cells, tissues, photosynthesis and genetics.	
<b>1407</b>	<b>General Biology</b>	<b>4:3:2</b>
	Vertebrate structure and function, development, reproduction ecology and evolution.	
	<i>Prerequisite: BIOL 1406.</i>	
<b>2401</b>	<b>Human Anatomy and Physiology</b>	<b>4:3:2</b>
	Structure and function of cells, tissues, muscle, skeletal and nervous system.	
	<i>Prerequisite: Passing scores on all sections of TASP test or be TASP exempt.</i>	
	<i>May not be used as a Biology major course.</i>	
<b>2402</b>	<b>Human Anatomy and Physiology</b>	<b>4:3:2</b>
	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>	
<b>2428</b>	<b>Comparative Anatomy of the Vertebrates</b>	<b>4:2:6</b>
	Comparative anatomy presented from systemic viewpoint. Two three-hour labs per week. (Offered Fall semester)	
	<i>Prerequisite: BIOL 1406, 1407.</i>	
<b>2420</b>	<b>Microbiology</b>	<b>4:3:2</b>
	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, and CHEM 1405 or 1411.</i>	
<b>2476</b>	<b>Medical Microbiology</b>	<b>4:3:3</b>
	The pathogenesis, epidemiology, prevention and therapy of major infectious diseases. Laboratory includes diagnostic procedures used in identification.	
	<i>Prerequisite: BIOL 2420</i>	
<b>3420</b>	<b>Embryology</b>	<b>4:3:3</b>
	Comparative study of meiosis, fertilization, cleavage and early embryology as it relates to human development of vertebrates. (Offered Spring semester)	
	<i>Prerequisite: BIOL 1406, 1407.</i>	
<b>3440</b>	<b>Advanced Physiology</b>	<b>4:3:3</b>
	General physiology, muscle-nerve relations, digestive, circulatory, respiratory, excretory, nervous and endocrine systems.	
	<i>Prerequisite: BIOL 1406, 1407 and CHEM 141, 1412. (Recommended: CHEM 3411, 3412.)</i>	
<b>3450</b>	<b>General Botany</b>	<b>4:3:3</b>
	Introduction to plant structure and function with emphasis on the seed plants.	
	<i>Prerequisite: BIOL 1406, 1407.</i>	
<b>3460</b>	<b>Invertebrate Zoology</b>	<b>4:3:3</b>
	Classification, natural history, phylogenetic relationships and economic importance of the invertebrate phyla. (Offered Fall semester)	
	<i>Prerequisite: BIOL 1406.</i>	
<b>3470</b>	<b>Genetics</b>	<b>4:3:3</b>
	General principles of heredity, including human inheritance.	
	<i>Prerequisite: BIOL 1406, 1407. (Statistics recommended)</i>	
<b>4101, 4401</b>	<b>Special Topics in Biology</b>	<b>1-4:A:0</b>
	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.	
<b>4160</b>	<b>Classical Biological Literature</b>	<b>1:1:0</b>
	A survey of major written works in biology.	
	<i>Prerequisite: Senior standing in biology.</i>	
<b>4170</b>	<b>Current Biological Literature</b>	<b>1:1:0</b>
	A survey of modern biological works published in recent journals.	
	<i>Prerequisite: Senior standing in biology.</i>	
<b>4300</b>	<b>Undergraduate Problems</b>	<b>3:0:6</b>
	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>	

- 4405 Immunology** 4:3:3  
Organs, tissues, cells, and molecules of the immune response and their interactions.  
*Prerequisite: BIOL 2420*
- 4406 Epidemiology**  
A study of the distribution and determinants of diseases and injuries in human populations. Laboratory utilizes a case history approach.  
*Prerequisite: Microbiology; statistics recommended.*
- 4410 Parasitology** 4:3:3  
A study of the morphology, life history and host-parasite relationships of parasites of man and other animals. (Offered fall semester)  
*Prerequisite: BIOL 1406, 1407.*
- 4430 Limnology** 4:3:3  
Fauna, flora, ecology and productivity of fresh water. (Offered spring semester)  
*Prerequisite: BIOL 1406, 1407.*
- 4440 Vertebrate Natural History** 4:3:3  
Collection, identification and natural history of area fish, amphibians, reptiles, birds and mammals. (Offered Spring semester)  
*Prerequisite: BIOL 1406, 1407.*
- 4450 Marine Biology** 4:3:3  
Habitats and community relationships of marine plants and animals. (Offered spring semester)  
*Prerequisite: BIOL 1406, 1407.*
- 4460 Ecology** 4:3:3  
Quantitative approach to both field and experimental studies. Interrelationships of organisms and their environment. (Offered fall semester)  
*Prerequisite: BIOL 1406, 1407.*

## Department of Chemistry

**Department Chair:** John A. Whittle      **217 Chemistry Building, Phone 880-8267**

**Professors:** Akers, Cocke, Hansen, Ortego, Whittle

**Associate Professors:** Dorris, Shukla

**Assistant Professors:** Allin, Sommerfeld

**Laboratory Technical Coordinator:** Williams

**Laboratory Manager:** Bradberry

Chemistry is a fundamental science and is required in all science and engineering degree programs. The Chemistry Department offers programs leading to B.S. and B.A. degrees in Chemistry. 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 Department has active research programs in several areas including environmental chemistry, surface chemistry, computational chemistry, materials science, polymer chemistry, fungal fatty acid compositions, transition metal coordination chemistry, molecular spectroscopy and organic reaction mechanism. Undergraduate students are strongly encouraged to take advantage of the opportunity to participate in one or more of these programs. The Department has been approved by the Committee on Professional Training of the American Chemical Society to award ACS approved degrees.

## Teacher Certification

Students wishing to teach chemistry in Texas public schools should consult with the Department Chairman for detailed information.

## 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, p. 15.
- 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 2401, 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, 2401, 3331, 3411, 3412, 4311, 4312, 4341)*

## Suggested Program of Study (Bachelor of Science- Chemistry Major)\*

Fall Semester		Spring Semester	
First Year		First Year	
CHEM 1411 General .....	4	CHEM 1412 General .....	4
PHYS 2425 General .....	4	PHYS 2426 General .....	4
MATH 2413 Calc, An Geo I ¶ .....	4	MATH 2414 Calc, An Geo II ¶ .....	4
ENGL 1301 Composition .....	3	ENGL 1302 or 1374 Composition .....	3
HLTH 1370 or PHIL 1370 .....	3	HLTH 1370 or PHIL 1370 .....	3

**Fall Semester  
Second Year**

CHEM 2401 Quantitative .....	4
CHEM 3411 Organic .....	4
MATH 2415 Calc, An Geo III ¶ .....	4
Engl Lit .....	3
PEGA/MULB/DANC .....	2

17

**Spring Semester  
Second Year**

CHEM 3331 Inorganic .....	3
CHEM 3412 Organic .....	4
PHYS 3350 Modern ★ .....	3
Engl Lit .....	3
Soc Sci # .....	3

18

**Fall Semester  
Third Year**

CHEM 4311 Physical ¶ .....	3
CHEM 4131 Physical Lab .....	1
BIOL 1406 or GEOL 1403 General .....	4
COMM 1315 Public Speaking .....	3
HIST 1301 American .....	3
PEGA/MULB/DANC .....	2

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**Spring Semester  
Third Year**

CHEM 4312 Physical ★ .....	3
CHEM 4132 Physical Lab .....	1
BIOL 1407 or GEOL 1404 General .....	4
HIST 1302 American .....	3
Fine Arts # .....	3

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**Fall Semester  
Fourth Year**

CHEM 4111 Chemical Lit .....	1
CHEM 4341 Inorganic .....	3
CHEM 4411 Biochem I .....	4
Chem advanced electives ** .....	3-4
POLS 2301 Intro Am Gov I .....	3

14-15

**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

14-16

Minimum 132 semester hours + PEGA/MULB/DANC + HLTH 1370

\*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, 2401, 3331, 3411, 3412, 4311, 4312, 4341).

\*\* CHEM 4351 is highly recommended.

# 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.

## 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, p. 15.
- B. Science and Mathematics:  
BIOL 1406, 1407, 2420  
PHYS 1401, 1402, 3350  
MATH 2413, 2414, 2415

## C. Chemistry:

CHEM 1411, 1412 General

CHEM 2401, 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****First Year**

CHEM 1411 General .....	4
BIOL 1406 General .....	4
MATH 2413 Calc, An Geo I ¶ .....	4
ENGL 1301 Composition .....	3
HLTH 1370 or PHIL 1370 .....	3

18

**Spring Semester****First year**

CHEM 1412 General .....	4
BIOL 1407 General .....	4
MATH 2414 Calc, An Geo II ¶ .....	4
Engl Comp .....	3
HLTH 1370 or PHIL 1370 .....	3

18

**Fall Semester****Second Year**

CHEM 2401 Quantitative .....	4
CHEM 3411 Organic .....	4
PHYS 1401 General .....	4
MATH 2415 Calc, An Geo III ¶ .....	4
PEGA/MULB/DANC .....	2

18

**Spring Semester****Second Year**

CHEM 3331 Inorganic .....	3
CHEM 3412 Organic .....	4
PHYS 1402 General .....	4
BIOL 2420 Microbiology .....	4
HIST 1301 American .....	3

18

**Fall Semester****Third Year**

CHEM 4311 Physical ¶ .....	3
CHEM 4131 Physical Lab .....	1
PHYS 3350 Modern ★ .....	3
Biol elective ** .....	4
Engl Lit .....	3
PEGA/MULB/DANC .....	2

16

**Spring Semester****Third Year**

CHEM 4312 Physical ★ .....	3
CHEM 4132 Physical Lab .....	1
Engl Lit .....	3
HIST 1302 American .....	3
Soc Sci # .....	3
Fine Arts # .....	3

16

**Fall Semester****Fourth Year**

CHEM 4111 Chemical Lit .....	1
CHEM 4341 Inorganic .....	3
CHEM 4411 Biochem I .....	4
Chem/Biol electives ^ .....	3
POLS 2301 Intro Am Gov I .....	3
COMM 1315 Public Speaking .....	3

17

**Spring Semester****Fourth Year**

CHEM 4121 Senior Seminar .....	1
CHEM 4461 Instrumental .....	4
CHEM 4412 Biochem II .....	4
Chem/Biol electives ^ .....	3-4
POLS 2302 Intro Am Gov II .....	3

15-16

Minimum 126 semester hours + PEGA/MULB/DANC + HLTH 1370.

\*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, 2401, 3331, 3411, 3412, 4311, 4312, 4341).

\*\*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. 65.

B. Science and Mathematics:

BIOL 1406, 1407 or GEOL 1403, 1404

PHYS 1401, 1402

C. Chemistry

CHEM 1411, 1412 General

CHEM 2401 Analytical

CHEM 3331 Inorganic

CHEM 3411, 3412 Organic

CHEM 4311, 4312, 4131, 4132 Physical

CHEM 4111 Chemical Literature

CHEM 4121 Senior Seminar

D. 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

#### First Year

CHEM 1411 General .....	4
PHYS 1401 General .....	4
MATH 2376 Calc I ¶ .....	3
Engl Comp .....	3
HLTH 1370 or PHIL 1370 .....	3

17

### Fall Semester

#### Second Year

CHEM 2401 Quantitative .....	4
BIOL 1406 or GEOL 1403 General .....	4
POLS 2301 Intro Am Gov I .....	3
Fine Arts * .....	3

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### Fall Semester

#### Third Year

CHEM 3411 Organic .....	4
Engl Lit .....	3
For Lang Elem .....	3
HIST 1301 American .....	3
PEGA/MULB/DANC .....	2
Minor Elective .....	3

18

### Fall Semester

#### Fourth Year

CHEM 4111 Chemical Lit .....	1
CHEM 4311 Physical .....	3
CHEM 4131 Physical Lab .....	1
For Lang. 2311 Intermediate .....	3
COMM 1315 Public Speaking .....	3
Minor electives .....	6

17

### Spring Semester

#### First Year

CHEM 1412 General .....	4
PHYS 1402 General .....	4
MATH 2377 Calc II ¶ .....	3
Engl Comp .....	3
HLTH 1370 or PHIL 1370 .....	3

17

### Spring Semester

#### Second Year

CHEM 3331 Inorganic .....	3
BIOL 1407 or GEOL 1404 General .....	4
POLS 2302 Intro Am Gov II .....	3
PEGA/MULB/DANC .....	2
Soc Sci * .....	3

15

### Spring Semester

#### Third Year

CHEM 3412 Organic .....	4
Engl Lit .....	3
HIST 1302 American .....	3
For Lang Elem .....	3
Minor Elective .....	3

16

### Spring Semester

#### Fourth Year

CHEM 4121 Senior Seminar .....	1
CHEM 4312 Physical .....	3
CHEM 4132 Physical Lab .....	1
For Lang. 2312 Intermediate .....	3
Minor electives .....	6

1

Minimum 128 semester hours + PEGA/MULB/DANC + HLTH 1370.

\* 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.

## 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, 3450
- C. Biology:  
BIOL 1406, 1407, 2428, 2420, 3450, 3460, 3470, 4160, 4170  
Four additional semester hours of advanced biology.
- D. Chemistry:  
CHEM 1411, 1412, 2401, 3331, 3412, 4311, 4312, 4121, 4131, 4132, 4411  
Eight additional semester hours of advanced chemistry.
- E. Elective:  
15 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 General .....	4	CHEM 1412 General .....	4
PHYS 1401 General .....	4	PHYS 1402 General .....	4
MATH 2376 Calc I # .....	3	MATH 2377 Calc II # .....	3
Engl Comp .....	3	Engl Comp .....	3
BIOL 1406 General .....	4	BIOL 1407 General .....	4
<hr/>		<hr/>	
18		18	

#### Summer Sessions

First Year	
BIOL 2420 Microbiology .....	4
Engl Lit .....	3
Engl Lit .....	3
<hr/>	
10	



**Fall Semester  
Second Year**

CHEM 2401 Quantitative .....	4
CHEM 3411 Organic .....	4
BIOL 2428 Anatomy or 4440 Vertebrate .....	4
HLTH 1370 .....	3
Soc Sci * .....	3

18

**Spring Semester  
Second Year**

CHEM 3331 Inorganic .....	3
CHEM 3412 Organic .....	4
PHYS 3350 Modern ** .....	3
BIOL 3460 Invertebrate .....	4
PHIL 1370 Philosophy of Knowledge .....	3

17

**Summer Sessions**

**Second Year**

POLS 2301 Intro Am Gov I .....	3
POLS 2302 Intro Am Gov II .....	3

6

**Fall Semester  
Third Year**

CHEM 4311 Physical .....	3
CHEM 4131 Physical Lab .....	1
BIOL 3450 Botany .....	4
Biol elective .....	4
HIST 1301 American .....	3
Fine Arts * .....	3

18

**Spring Semester  
Third Year**

CHEM 4312 Physical ** .....	3
CHEM 4132 Physical Lab .....	1
BIOL 3470 Genetics .....	4
HIST 1302 American .....	3
Electives .....	6

17

**Fall Semester  
Fourth Year**

CHEM 4411 Biochemistry I .....	4
COMM 1315 Public Speaking .....	3
BIOL 4160 Bio Lit .....	1
Chem Advanced Elective .....	3
PEGA/MULB/DANC .....	2
Biol Elective .....	3

16

**Spring Semester  
Fourth Year**

CHEM 4121 Senior Seminar .....	1
BIOL 4170 Bio Lit .....	1
Chem Advanced Elective .....	3
Electives .....	9
PEGA/MULB/DANC .....	2

16

Minimum 154 semester hours+ PEGA/MULB/DANC + HLTH 1370.

A grade of "C" or better is required in core chemistry courses (CHEM 1411, 1412, 2401, 3331, 3411, 3412, 4311, 4312, 4360)

\* 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.

## Chemistry Courses (CHEM)

- 1375 Chemical Principles** 3:3:0  
An introduction to the fundamentals of chemical structure, reactions, periodicity and the mathematical manipulations used in chemistry. May not be substituted for required chemistry courses in any degree program.  
*NOTE: It is strongly recommended that students enrolling have mathematics competency at or above the level of MATH 1314.*
- 1406 Chemistry for Allied Health Science** 4:3:2  
Survey of elementary inorganic, organic chemistry and gas laws for allied health science majors.  
*Prerequisite: High school chemistry or CHEM 1375 with grade of "C" or better required; two years of high school algebra and SAT math score of 400 or MATH 1314, recommended.*
- 1408 Biochemistry for Allied Health Science** 4:3:2  
Elementary survey of structure, function and metabolic processes of molecules in organisms. Designed for students majoring in health sciences.  
*Prerequisite: CHEM 1406*
- 1411 General Chemistry** 4:3:3  
Mathematics based review of chemical laws and theory for science, engineering and preprofessional majors.  
*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 or 500 or better.*
- 1412 General Chemistry** 4:3:3  
A continuation of CHEM 1411. Properties of the elements. Elementary qualitative analysis and theories of solutions and equilibrium.  
*Prerequisite: CHEM 1411.*
- 1405 Introductory Chemistry** 4:3:2  
For nonscience majors. A survey course in elementary inorganic chemistry.
- 1407 Introductory Chemistry** 4:3:2  
For nonscience majors. Continuation of CHEM 1405. Nuclear science, elementary organic and physiological chemistry.  
*Prerequisite: CHEM 1405 or 1411.*
- 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.*
- 2401 Quantitative Analysis** 4:3:5  
Theory and practice of analytical chemistry utilizing gravimetric and titrimetric techniques.  
*Prerequisite: CHEM 1412 with a grade of "C" or better.*
- 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.*
- 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 2401, 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.*
- 4360 Honors Environment & Ecology** 3:3:0:  
 A multidisciplinary survey of the many dimensions of protecting our natural resources and quality of life. Topics include ecological systems, threats and damage to the environment and alternatives, national and international regulatory agencies and standards and activities of private environmental groups.  
*Prerequisite: Membership in Honors Program and permission of department chair.*
- 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.*
- 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 optical, electrometric and chromatographic methods.  
*Prerequisite: CHEM 2401, 3412, 4311.*
- 4481 Environmental Analysis** 4:3:4  
 The causes of environmental pollution, how environmental samples are collected and analyzed, and current governmental regulations concerning pollutants.
- 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 staff 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.*

## Department of English and Foreign 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 English as a Second Language:** Jesse Doiron

**1 Maes Building, Phone 880-8586**

**Coordinator of International Studies:** Kenneth Rivers

**25 Maes Building, Phone 880-8595**

**Professors Emeriti:** Barnes, Olson

**Professors:** Daigrepont, Gwynn, Price, Sheppard, Strickland\*

**Associate Professors:** Dodson, Loges, Nordgren, Priest, Rivers, Sanderson, Saur, Yearwood

**Assistant Professors:** Bridges-Esser, Griffith, Hawkins, Kelley, Stewart

**Instructors:** Castillon, Doiron

**Lecturers:** Carey, C. Guidici, G. Guidici, Haidusek, Matthis, Miller, Murthy, Needham, Self, Smith, Staub, Urban, Wier

\*retired, part-time

The Department of English and Foreign 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 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, a minor in philosophy, and an ESL Endorsement 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 foreign language is especially valuable for those anticipating foreign service employment in the public or private sector. The English writing concentration as well as foreign languages and philosophy can combine with other majors to improve marketability.

## 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:  
See core curriculum, p. . In addition, students must complete a foreign language through the course numbered 2312 and HIST 2321 and 2322.
- B. Major:  
Two options are available, one emphasizing literature, the other emphasizing writing.  
Advanced American literature: six semester hours.  
Advanced British and world literature: twelve semester hours.  
ENGL 4300 or 4312  
English advanced elective: three semester hours.  
One may substitute nine hours of writing courses (drawn from ENGL 2301, 3310, 3350, 3326, 4326, 4345, and 4355) for nine of the 21 advanced literature and elective hours. See "Writing Programs" below.  
ENGL 4110: Senior capstone course for English majors, a review of the profession and discipline with resource materials provided.
- C. Minor:  
An approved minor of 18 semester hours, including at least six semester hours in advanced courses. A student electing the literature option for the English major may also select a writing minor. Marketable minors in areas such as business or computer science are encouraged.
- D. Sufficient approved electives to complete a total of 120 semester hours not including activity and health and wellness courses.

## Writing Programs: Technical and Creative

Students from any academic discipline who wish to better prepare themselves for employment in business, the professions or government service may be interested in the technical writing program offered by the department. 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. Hands-on experience producing such documents on microcomputer is offered. Course work in this technical writing program should complement virtually any major. Students completing a nine-hour sequence (from ENGL 2301, 3310, 4355 and 4365 ordinarily) will earn a certificate in the technical writing concentration. See the chair of the Department of English and Foreign Languages.

Students interested in the craft of creative writing are encouraged to pursue their interest by completing the nine-hour sequence in creative writing, which includes ENGL 3350 (poetry), ENGL 3350 (fiction), and ENGL 4345 (advanced seminar). Students completing this sequence will earn a certificate in the creative writing concentration.

The department is a member of the Associated Writing Programs and is registered in the AWP Official Guide.

## Teacher Certification – English

Students wishing to certify for a provisional certificate-secondary with English as the primary teaching field should major in the Department of English Foreign Languages and receive a Bachelor of Arts degree in English with certification. They may choose one of three options: Option 1 requires 30 hours of English and a twelve-hour supporting field but no second teaching field; Option 2 requires 24 hours of English and an approved 24-hour second teaching field; Option 4 requires 42 hours of English, communications, and reading and no second teaching field (English Language Arts). NOTE: All semester hours totals above do not include freshman and sophomore English, which are included in general education hours.

Those receiving the Bachelor of Arts in English with a provisional certificate-secondary take a program similar to that outlined above with the following exceptions:

- A. Core curriculum/academic foundations: HIST 2321 and 2322 are not required. COSC 1371 or equivalent and PEDG 3326 are required.
- B. English—Option I Specialization: (30 semester hours) ENGL 3321; ENGL 3326 or 4326; one course from ENGL 4300, 4312 or 4323; two courses from ENGL 3360, 3390, 3322, 3324, 4318, 4328, 4329, 4336, or equivalent; four courses from ENGL 3320, 3340, 3360, 3370, 3380, 3316, 4324, 4340, 4350, 4380, 4390, 4311, 4314, 4317, 4318, 4319, 4333, 4334, or equivalent; and one advanced Eng elective. Must include a foreign language through 2312.

English—Option II Specialization: (24 semester hours) ENGL 3321; ENGL 3326 or 5326; one course from ENGL 4300, 5312, or 5323; two courses from ENGL 3360, 3390, 3322, 3324, 5318, 5328, 5329, 5336, or equivalent; three courses from ENGL 3320, 3340, 3360, 3370, 3380, 3316, 4324, 4340, 4350, 4380, 4390, 4316, 4314, 4317, 4318, 4319, 4333, 4334, or equivalent. When selected as first teaching field, must include a foreign language through 2312; as second teaching field, must include a foreign language through 2312.

English Language Arts—Option IV Specialization: (42 semester hours) ENGL 3321; ENGL 3326 or 4326; one course from ENGL 4300, 4312, or 4323; fifteen hours of advanced literature (may include 3350 or 4345); COMM 1315 or 3310 (in foundations); COMM 2341, 1373, 2311; PEDG 3326 (in foundations); and PEDG 3390. Must include a foreign language through 2312.

In addition, these students must complete 18 hours in professional pedagogy, including student teaching, and must pass appropriate ExCET examinations.

Note: For details concerning requirements for elementary teacher certification with English specialization, consult the College of Education and Human Development section in this catalog.

## Suggested Program of Study – English

First Year	Second Year
Eng Comp .....	Eng Lit .....
HIST 2321, 2322 .....	American Hist .....
For Lang Elem .....	POLS 2301, 2302 .....
Math .....	For Lang 2311, 2312 .....
PHIL 1370 .....	COMM 1315 .....
Fine Arts .....	Soc Sci elective .....
PEGA .....	HLTH 1370 .....
6	6
6	6
6	6
6	6
3	3
3	3
4	3

Third Year		Fourth Year	
Advanced English .....	12	Advanced English .....	12
Laboratory Science .....	8	Minor .....	9
Minor .....	9	ENGL 4110 .....	1
Elective .....	3	Electives .....	9
32		31	

## Bachelor of Arts – French or Spanish

The degree of Bachelor of Arts in French and 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. General Requirements:  
See core curriculum, p. 15.
- B. Major:
  - French
  - FREN 1311, 1312: Elementary French
  - FREN 2311, 2312: Intermediate French
  - FREN 3300: French Conversation
  - FREN 3370: Advanced Grammar and Composition
  - FREN 3380: French Phonetics
  - Advanced French: nine semester hours of literature and civilization
  - Spanish
  - SPAN 1313, 1314: Elementary Spanish
  - SPAN 2311, 2312: Intermediate Spanish
  - SPAN 3300: Spanish Conversation
  - SPAN 3350: Advanced Grammar and Composition
  - Advanced Spanish: twelve semester hours of literature and civilization
- C. Minor:  
An approved minor of 18 semester hours, including at least six advanced semester hours
- D. Electives:  
Sufficient approved electives to complete a total of 120 semester hours not including activity and health and wellness classes.

## Teacher Certification – French, Spanish

Students wishing to certify for a provisional certificate-secondary with French or Spanish as the primary teaching field should major in the Department of English and Foreign Languages and receive a Bachelor of Arts degree in French or Spanish. Requirements in the major are the same as for non-certifying French or Spanish majors.

Those receiving the Bachelor of Arts in French or Spanish with a provisional certificate-secondary take a core curriculum/academic foundations program similar to that outlined above except that COSC 1371 or equivalent and PEDG 3326 are required.

**General Requirements**

Computing and Technology: COSC 1371 or equivalent

For details concerning requirements for elementary teacher certification with French or Spanish specialization, consult the College of Education section in this catalog.

**Suggested Program of Study – French or Spanish**

First Year	Second Year
*Maj Lang 1311 or 1313; 1312 or 1314 ..... 6	Maj Lang 2311, 2312 ..... 6
Eng Comp ..... 6	Eng Lit ..... 6
Math ..... 6	POLS 2301, 2302 ..... 6
PHIL 1370 ..... 3	COMM 1315 ..... 3
Fine Arts ..... 3	Soc Sci elective ..... 3
Am Hist ..... 6	HLTH 1370 ..... 3
PEGA ..... 4	Elective ..... 3
34	30
Third Year	Fourth Year
Maj Lang: FREN 3300, 3370 and another advanced or ..... 9	Maj Lang Advanced ..... 9
Maj Lang: SPAN 3300, 3350 and another advanced ..... 9	Electives including minor ..... 20
Laboratory Science ..... 8	
Electives including minor ..... 15	
32	29

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

**Developmental Writing (DWRT)****0371 Developmental Writing**

The development of basic composition skills as required by the Texas Academic Skills Program (TASP). The course is a prerequisite to ENGL 1301 for all students who have not passed the state-mandated TASP writing test; students who do not pass the state test must engage in some type of mandatory remediation until the test is passed. This course neither satisfies general degree requirements for freshman English nor counts toward graduation honors.

**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.
- 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.*
- 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 APtest, 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. Upon completion of the course with a grade of C or better, the student receives only 3 semester hours credit but has satisfied the complete 6-semester-hour core curriculum freshman English requirement and can and should enroll in sophomore literature.  
(NOTE: Satisfactory completion of six hours of freshman composition is prerequisite to sophomore literature courses. Unless specified by a particular department, any combination of six sophomore courses below will satisfy a sophomore literature requirement. Ordinarily, completion of freshman and sophomore English requirements is a prerequisite to all courses beyond those levels.)
- 2301 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.
- 2322 British Literature** 3:3:0  
Six-to-ten major works of British literature, including writers from most of the important periods.  
*Prerequisite:* ENGL 1301 and either ENGL 1302 or 1374; or ENGL 1360.
- 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.
- 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.
- 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
- 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.
- 2376 African-American Literature** 3:3:0  
Significant contributions to American literature from Colonial times to the present.  
*Prerequisite:* ENGL 1301 and either ENGL 1302 or 1374; or ENGL 1360.
- 3310 Technical Report Writing** 3:3:0  
Supervised preparation of technical and scientific reports according to standard usage recommended by professional scientific and engineering societies.
- 3316 Poetic Analysis** 3:3:0  
Forms and techniques and the critical evaluation of poetry.
- 3320 Children's and Adolescent Literature** 3:3:0  
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.
- 3321 Issues in Language and Literature** 3:3:0  
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.

- 3322 The American Literary Renaissance: 1820-1860** 3:3:0  
Major authors of the period from Poe to Melville.
- 3324 The Development of American Realism: 1860 to 1900** 3:3:0  
Major authors of the period from Whitman to Norris.
- 3326 Writing the Critical Paper** 3:3:0  
A writing-intensive course focusing on the rationale and techniques for writing critical papers in the field of language and literature. English majors and minors are encouraged to take this course at the beginning of their upper-division studies.
- 3340 Mythology** 3:3:0  
Mythologies of the ancient Greeks, Romans, and Norse peoples and other cultures:
- 3350 Creative Writing** 3:3:0  
A workshop approach to the writing of poetry, fiction and drama. May be taken for credit more than once when the genre focus varies.
- 3360 The Short Story** 3:3:0  
The technique of the short story; its historical development; study and analysis of great short stories.
- 3370 The Drama** 3:3:0  
The historical development of the drama from Aeschylus to the present. Intensive study of selected plays.
- 3380 Studies in the British Novel** 3:3:0  
The tradition of the British novel, eighteenth century to the present.
- 3390 American Novel** 3:3:0  
History, growth and technique of the American novel.
- 4110 Senior Seminar** 1:1:0  
A capstone course for seniors, surveying the discipline and profession and relevant areas of language and literature.
- 4300 History of the English Language** 3:3:0  
Theory and nature of language. Studies in the growth of English and American forms.
- 4311 Studies in Victorian Literature** 3:3:0  
Poetry and prose of the Victorian period. May be taken for credit more than once if the topic varies.
- 4312 Studies in Language and Linguistics** 3:3:0  
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.
- 4314 Studies in Women's Literature** 3:3:0  
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.
- 4317 Modern Drama** 3:3:0  
Dramatic trends and representative plays from Ibsen to the present.
- 4318 Modern Poetry** 3:3:0  
Poetic developments in England and America with emphasis on representative poets from Hardy to the present.
- 4319 Modern Fiction** 3:3:0  
Prose fiction representative of modern ideas and trends, with emphasis on English and Continental authors.
- 4320 The Teaching of English as a Second Language** 3:3:0  
Techniques for teaching basic English skills and literature to non-native speakers. Socio-cultural aspects of second language learning.
- 4321 Cross-Cultural Communication** 3:3:0  
A study of cross-cultural communication with a focus on non-verbal and cultural differences that may influence communication in a second language.
- 4322 Psycholinguistics** 3:3:0  
Current research and theory of first and second language acquisition and development as a base for teaching English to non-native speakers.

- 4323 Introduction to Linguistics** 3:3:0  
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.  
(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.)
- 4324 Studies in 16th Century Literature** 3:3:0  
Poetry, prose and drama of the age. May be taken for credit more than once if the topic varies.
- 4326 Studies in Rhetoric** 3:3:0  
An advanced writing-intensive course on a variety of traditional rhetorical concerns, including matters of invention, arrangement and style.
- 4328 Early American Literature** 3:3:0  
Significant writers from the beginning of Colonial America to 1828.
- 4329 Modern American Literature** 3:3:0  
Major American writers of the 20th century.
- 4333 Studies in a Particular Author** 3:3:0  
Major writer such as Chaucer, Milton, Hawthorne, Faulkner. May be taken for credit more than once when the topic varies.
- 4334 Critical Studies in Literature** 3:3:0  
A particular genre or theme in comparative literature or criticism. May be taken more than once for credit when the topic varies.
- 4336 Directed Studies** 3:3:0  
Study in American literature in an area of mutual interest. May be taken for credit more than once if topic varies.  
*Prerequisite: Junior standing.*
- 4340 Shakespeare** 3:3:0  
Selected major plays. May be taken for credit more than once if the topic varies.
- 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.  
*Prerequisite: ENGL 3350 or permission of the instructor (for any creative writing seminar).*
- 4350 Survey of 17th Century Literature** 3:3:0  
Poetry, prose and drama of the period 1600-1660. May be taken for credit more than once if the topic varies.
- 4355 Editing Technical Communications**  
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.*
- 4360 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.*
- 4380 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.
- 4390 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.

## Philosophy Courses (PHIL)

The overall aim of philosophy is the pursuit of truth. The methods of philosophy are conceptual analysis and sound reasoning. The objective of philosophy courses is to stimulate and train students to think critically, so that they will enthusiastically engage in the pursuit of truth.

<b>1370</b>	<b>Philosophy of Knowledge</b>	<b>3:3:0</b>
	A survey of major knowledge systems with an emphasis on the scientific and humanistic methods of inquiry.	
<b>1360</b>	<b>Honors Philosophy of Knowledge</b>	<b>3:3:0</b>
	Satisfies core curriculum philosophy of knowledge requirement.	
<b>2303</b>	<b>Logic</b>	<b>3:3:0</b>
	Nature and methods of correct reasoning; deductive and inductive proof; logical fallacies.	
<b>2306</b>	<b>Ethics</b>	<b>3:3:0</b>
	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.	
<b>3360</b>	<b>Philosophy of Religion</b>	<b>3:3:0</b>
	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.	
<b>4320</b>	<b>Philosophy of Science</b>	<b>3:3:0</b>
	A survey and analysis of scientific developments influenced by philosophy; scientific methodologies investigated.	
<b>4330</b>	<b>Philosophy of Art</b>	<b>3:3:0</b>
	Deals with the issue of creativity in the arts and sciences. Survey of major aesthetic theories. Students pursue and present individual projects.	

## English as a Second Language (ESL)

**Advisor:** Jesse Doiron

**1 Maes Building, Phone 880-8586**

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 1378 and ENGL 1379 are parallel in content to the freshman composition courses taken by native speakers of English. These courses differ only in teaching methods that speak to distinctive needs of a non-native user of English.

ENGL 1378 is prerequisite to ENGL 1379, and the courses may not be taken concurrently. These six hours must be taken the first two long semesters in which the student is enrolled.

- 1378 Composition for Non-Native Speakers I** 3:3:0  
Intensive grammar review followed by study and practice in basic forms of expository writing needed for writing essay examinations, themes and term papers.
- 1379 Composition for Non-Native Speakers II** 3:3:0  
Basic forms of expository writing. The primary aim of the course is to assist the student to prepare for writing required research papers. Practice in library research.  
*Prerequisite: ENGL 1378.*

## Literature:

ENGL 2374, 2375 or 2377 are courses which satisfy degree requirements in literature for the student for whom English is not a native language. ENGL 1378 or 1379 are prerequisite to all the literature courses. The literature courses may not be taken concurrently with developmental English courses or with ENGL 1378 and 1379.

- 2374 British Literature: Non Native** 3:3:0  
Six to ten major works in British literature, including representative works from most of the major periods. Applies toward the sophomore literature requirement for students for whom English is a second language.  
*Prerequisite: ENGL 1378 and 1379.*
- 2375 World Literature: Non Native**  
Six to ten major works of world literature in various genres, from classical antiquity to the present century. Applies toward the sophomore literature requirement for students for whom English is a second language.  
*Prerequisite: ENGL 1378 and 1379.*
- 2377 American Literature: Non Native** 3:3:0  
Six to ten major works in American literature, including representative works from most of the major periods. Applies toward the sophomore literature requirements for students for whom English is a second language.  
*Prerequisite: ENGL 1378 and 1379.*

## ESL Endorsement:

Prospective ESL teachers may satisfy the course work requirement for ESL endorsement in the state of Texas by completing 12 hours of prescribed courses: ENGL 4320, 4321, 4322 and 4323 (or ENGL 4312 when it is taught under the course title of Introduction to Linguistics). See the list of English courses for titles and descriptions.

## 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** 3:3:0  
Review of grammar, reading, composition, conversation, including language lab practice.  
*Prerequisite: FREN 1312 or equivalent.*
- 2312 Intermediate French** 3:3:0  
*Prerequisite: FREN 2311 or equivalent.*

- 3300 French Conversation** 3:3:0  
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.  
*Prerequisite: FREN 2311 or equivalent.*
- 3350 French Literature Survey I** 3:3:0  
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.  
*Prerequisite: FREN 2312 or equivalent.*
- 3360 French Literature Survey II** 3:3:0  
An overview of French literature, authors, and literary movements since 1800. May be repeated for credit when the texts vary.  
*Prerequisite: FREN 2312 or equivalent.*
- 3370 Advanced Grammar and Composition** 3:3:0  
French grammar, with extensive written composition. Secondary stress on pronunciation. May be repeated for credit with approval of the department chair.  
*Prerequisite: FREN 2312 or equivalent.*
- 3380 French Phonetics** 3:3:0  
The French sound system. Laboratory exercises to improve pronunciation. May be repeated for credit with approval of the department chair.  
*Prerequisite: FREN 2312 or equivalent.*
- 3390 French Culture and Civilization** 3:3:0  
French civilization with readings and discussion of topics such as French history, politics, education, art, fashion, cuisine, technology, work and leisure.  
*Prerequisite: FREN 2312 or equivalent.*
- 4310 French Theater** 3:3:0  
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.  
*Prerequisite: FREN 2312 or equivalent.*
- 4330 Special Topics** 3:3:0  
Study in a specific topic in French language and/or literature. May be taken more than once for credit when topic varies.
- 4390 French Novel** 3:3:0  
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.  
*Prerequisite: FREN 2312 or equivalent.*

## German Courses (GERM)

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

## Spanish Courses (SPAN)

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

- 4360 Spanish American Novel** 3:3:0  
Major writers and works from Hispanic America. Lectures, readings, oral and written reports. May be taken for credit more than once if topic varies.  
*Prerequisite: SPAN 2312 or equivalent.*
- 4380 Studies in Spanish and Spanish American Literature** 3:3:0  
Studies in an area of mutual interest to students and instructor. May be taken for credit more than once if topic varies.

## Global Studies

Several international initiatives are associated with the Department of English and Foreign Languages. As Global Studies Director, Dr. Kenneth Rivers works with a Global Studies Task Force to promote existing and to develop new initiatives. Lamar University recognizes the importance of internationalized education in enlarging the student's perspective, contributing to the character of the institution and enhancing career possibilities. Throughout the university many activities occur in addition to those identified below. The Office of Global Studies is an information source for such activities.

A language study abroad program enables students to take courses at foreign universities. Language and civilization classes are held every summer at institutions such as the University of Paris-Sorbonne in France, the University of Madrid in Spain, the University of Heidelberg in Germany, the SFSU center in Tokyo, Japan, and other locations as well. Extensive cultural excursions to museums, cathedrals and historical sites are included in all programs. Courses may be taken for enrichment or for Lamar credit. Courses may not be substituted for other courses specifically required for the major. Contact Dr. Rivers (409-880-8595) or the department office (409-880-8558) for information. Other foreign travel programs are offered by Lamar and those interested are urged to contact the Office of Public Services and Continuing Education (880-2294).

## Lamar Language Institute

The Lamar Language Institute, an intensive English program, provides 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. Jesse Doiron (409-880-8586), Director of English as a Second Language, coordinates LLI 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.

## International Organizations

Lamar University has relationships with a variety of universities, including Hohai University in Nanjing, Peoples Republic of China, and Tartu University in Estonia. These growing affiliations reflect the university's commitment to international education.



On a local level, organizations such as Circulo Hispano (Spanish Circle) and Le Cercle Français (French Circle) 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.

## Department of Geology

**Department Chair:** Roger W. Cooper

**103 Geology Building, Phone 880-8236**

**Professors:** Cooper, Jordan, Owen, Stevens

**Associate Professor:** Westgate

**Earth Science Coordinator:** J.W. Westgate

**Emeritus Professor:** Aronow

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

Geology faculty have a broad range of research and scholarly interests. These include stratigraphy, sedimentology, paleontology, petroleum geology, petrology, economic mineral deposits, environmental geology, and geochemistry as well as geology of the Gulf Coast, lunar geology, geology of the Big Bend region, computer applications to geology and Earth Science education.

A background in high school chemistry and physics, foreign language and 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:** Jordan, Owen, Stevens

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

- A. General Requirements – minimum of 76 semester hours  
See core curriculum, p. 15, plus calculus (six to eight semester hours), chemistry (eight semester hours) and physics (eight semester hours), and physical education (four semester hours)
- B. Geology Requirements – 49 semester hours. NOTE: A grade of "C" or better is necessary in a required geology course.  
Physical and Optical Mineralogy – four semester hours  
Physical Geography and Geomorphology with laboratory- four semester hours

- Statistics and Data Processing – four semester hours  
 Structural Geology – four semester hours  
 Petrology – four semester hours  
 Sedimentology – four semester hours  
 Stratigraphy and Tectonics- four semester hours  
 Summer Field Course – six semester hours  
 Seminar in Applied Geoscience – four semester hours  
 Geochemistry or Geophysics – three semester hours  
 Economic Resources with laboratory- four semester hours  
 Paleontology – four semester hours  
 C. Electives- two semester hours  
 D. Minimum Total: 127 semester hours

### Suggested Program of Study

#### First Year

GEOL 1403, 1404 Phys Hist .....	8
CHEM 1411, 1412 General .....	8
MATH 2305 Pre-Calculus .....	3
MATH 2413 or 2376 Calculus I* .....	3- 4
Engl Comp .....	6
PEGA .....	4

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#### 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
Engl Lit .....	6
COMM 3310 .....	3
POLS 2301, 2302 .....	6
PHIL 1370 .....	3
HLTH 1370 .....	3

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#### Third Year

GEOL 3410 Stat-Data Proc .....	4
GEOL 3420 Structural Geo .....	4
GEOL 3450 Petrology .....	4
GEOL 3460 Sedimentology .....	4
GEOL 4410 Stratigraphy/ Tectonics .....	4
PHYS 1401, 1402 General* .....	8
ANTH 2346 .....	3

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#### Fourth Year

GEOL 4450 Seminar- Geoscience .....	4
GEOL 4361 or GEOL 4330 .....	3
GEOL 4371 Economic Resources .....	3
GEOL 4101 Econ Resources Lab .....	1
GEOL 4420 Paleontology .....	4
Am Hist .....	6
Fine Arts .....	3
Electives .....	2

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#### Third or Fourth Summer

GEOL 3600 Field Camp .....	6
Minimum Total; 127 semester hours	

\*Those planning on graduate study in geology should take MATH 2413, 2414.

## Bachelor of Science – Earth Science

**Advisors:** Westgate, Stevens

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

- A. General Requirements – 63 semester hours  
See core curriculum, p. 15, plus chemistry (four semester hours), general biology (eight semester hours), conceptual physics (four semester hours), and physical education (four semester hours); note that math requirement must be satisfied with college algebra and statistics (seven semester hours)
- B. Geology Requirements – minimum of 46 semester hours:  
NOTE: A grade of "C" or better is necessary in a required geology course.  
Physical and Historical Geology – eight semester hours  
Physical and Optical Mineralogy - four semester hours  
Physical Geography and Geomorphology with laboratory- four semester hours  
Statistics and Data Processing- four semester hours  
Physical and Historical Lab Instruction- two semester hours  
Environmental Geography and Geology – three semester hours  
Special Topics (Advanced Physical Geology)- four semester hours  
Meteorology- three semester hours  
Oceanography- three semester hours  
Paleontology – four semester hours  
Seminar in Applied Geoscience- four semester hours  
Field Geology in Texas- three semester hours
- C. Electives- nineteen (19) semester hours
- D. Minimum Total: 128 semester hours

**TEACHING CERTIFICATION:** Students desiring certification to teach in Texas schools should complete: PEDG 3310, 3320, 3326, 3380, 4380, and 4620. Students are advised to consult with the Director of Certification in the College of Education regarding current requirements for teaching certification.

### Suggested Program of Study

First Year		Second Year	
GEOL 1403, 1404 Phys & Hist .....	8	GEOL 2471 Mineralogy .....	4
MATH 1314 College Algebra .....	3	GEOL 2377 Phys Geog & Geom .....	3
CHEM 1405 Introductory .....	4	GEOL 4101 Geomorphology Lab .....	1
Engl Comp .....	6	GEOL 3410 Stat-Data Proc .....	4
PSYC 2471 Intro Stat Meth .....	4	PHYS 1407 Conceptual Physics .....	4
PEGA .....	4	Engl Lit .....	6
HLTH 1370 .....	3	Am Hist 1301,1302 .....	6
		ANTH 2346 .....	3

**Third Year**

GEOL 3101-3102 Adv Labs .....	2
GEOL 3390 Env Geog & Geo .....	3
GEOL 4401 Sp T- Adv Phy Geo .....	4
BIOL 1406, 1407 .....	8
POLS 2301, 2302 .....	6
PHIL 1370 .....	3
Electives (PEDG 3310, 3320) .....	6

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**Fourth Year**

GEOL 4370 Meteorology .....	3
GEOL 4380 Oceanography .....	3
GEOL 4420 Paleontology .....	4
GEOL 4450 Seminar- Geoscience .....	4
Fine Arts .....	3
Electives .....	13

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**Third or Fourth Summer**

GEOL 4360 Field Geo of Texas ..... 3

Minimum Total: 128 semester hours

**Geology Courses (GEOL)**

<b>1403 Physical Geology</b>	<b>4:3:2</b>
Earth materials, structures, tectonics, land forms, mineral resources and processes which formed them.	
<b>1404 Historical Geology</b>	<b>4:3:2</b>
History of the development of our planet and its inhabitants.	
<i>Prerequisite: GEOL 1403</i>	
<b>2376 Regional and Economic Geography</b>	<b>3:3:0</b>
Regional, national, and continental units considered from the viewpoint of economic resources, resource development, organization, politics, economy, and physical landscape.	
<b>2377 Physical Geography and Geomorphology</b>	<b>3:3:0</b>
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>	
<b>2471 Physical and Optical Mineralogy</b>	<b>4:3:3</b>
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>	
<b>3101 Physical Geology Lab Instruction</b>	<b>1:0:3</b>
Advanced laboratory techniques in physical geology. May be repeated for credit.	
<i>Prerequisite: GEOL 1403 and consent of instructor.</i>	
<b>3102 Historical Geology Lab Instruction</b>	<b>1:0:3</b>
Advanced laboratory techniques in historical geology. May be repeated for credit.	
<i>Prerequisite: GEOL 1404 and consent of instructor.</i>	
<b>3390 Environmental Geography and Geology</b>	<b>3:3:0</b>
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>	
<b>3410 Statistics and Data Processing</b>	<b>4:3:3</b>
Application of digital computer and statistical techniques to the analysis of earth science data.	
<i>Prerequisite: COSC 137.</i>	
<b>3420 Structural Geology</b>	<b>4:3:3</b>
Rock deformation and geologic structures. Field trip and special fee required.	
<i>Prerequisite: GEOL 2471.</i>	

- 3450 Petrology** 4:3:3  
 Classification, properties, occurrence and origin of rocks. Macro and micro techniques for the identification of rocks. Field trip and special fee required.  
*Prerequisite: GEOL 2471.*
- 3460 Sedimentology** 4:3:3  
 Derivation and deposition of sediments. Environmental interpretation of sedimentary strata. Field trip and special fee required.  
*Prerequisite: GEOL 3450.*
- 3600 Summer Field Course** 6:5:40  
 Description of stratigraphic sections, preparation of geologic maps and field reports. Conducted off-campus at various field locations. Special field trip fees required.  
*Prerequisite: GEOL 3420, 3450, 3460, 4420.*
- 4101, 4201, 4301, 4401 Special Topics in Earth Science** 1-4:A:0  
 Topics in earth sciences. May be repeated for credit when area of study is different.  
*Prerequisite: GEOL 1403, 1404 and consent of instructor.*
- 4270, 4280 Special Project** 4:A:0  
 An individual library, laboratory, or field project. To receive credit, an acceptable report is required. May be repeated for credit.  
*Prerequisite: GEOL 1403, 1404, and 2471 plus Consent of instructor.*
- 4330 Geophysics** 3:3:0  
 Application of the principles of physics to geologic problems. Use of geophysical techniques in petroleum exploration.  
*Prerequisite: GEOL 3420, PHYS 1402 or 2426, MATH 2414.*
- 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 Tectonics** 4:3:3  
 Fundamental principles: nomenclature; correlation; facies; unconformities; sequence and subsurface stratigraphy. Field trip and special fee required.  
*Prerequisite: GEOL 1404 and permission of instructor.*

- 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.*

## Department of History

**Department Chair:** John W. Storey

**57 Maes Building, Phone 880-8511**

**Professors:** Anderson, Carroll, Fritze, Gwin, Storey, Sutton, Wooster

**Assistant Professors:** Stiles

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 improves the quality of life of individuals and contributes 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 French, Spanish or German foreign language 2312 course and must complete 6 semester hours of mathematics. The math courses must be selected from an approved list and must be at or above the level of MATH 1314. Three hours of methods of quantitative data analysis may be substituted for one course in mathematics with the approval of the department.

**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, including at least six advanced semester hours.

**D. Electives:**

Sufficient approved electives to complete a total of 126 semester hours. Within the 126 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.

## 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 such a program, the student should consult advisors in the Department of History.

### Suggested Program of Study

First Year		Second Year	
HIST 2321, 2322 World History .....	6	Am Hist .....	6
Engl Comp .....	6	Engl Lit .....	6
Mathematics .....	6	Foreign Language .....	6
Social Science .....	3	Science .....	8
PHIL 1370 .....	3	Political Science .....	6
Foreign Language .....	6		
PEGA .....	2		
	32		32
Third Year		Fourth Year	
HIST 3390 .....	3	Hist (Adv) .....	6
Hist (Adv) .....	6	Minor .....	9
COMM 1315 .....	3	Electives .....	17
Fine Arts .....	3		
HLTH 1370 .....	3		
Minor .....	9		
Electives .....	3		
	30		32

### History Courses (HIST)

<b>1301</b>	<b>American History: History of the United States, 1763 to 1877</b>	<b>3:3:0</b>
	United States history from the revolutionary period through reconstruction.	
<b>1302</b>	<b>American History: History of the United States, 1877 to the Present</b>	<b>3:3:0</b>
	United States history from the post-reconstruction period to the present.	
<b>1361</b>	<b>Honors American History: History of the United States, 1763 to 1877</b>	<b>3:3:0</b>
	United States from the revolutionary period through reconstruction, designed especially for honors students.	
	<i>Prerequisite: Departmental approval.</i>	
<b>1362</b>	<b>Honors American History: History of the United States, 1877 to the Present</b>	<b>3:3:0</b>
	United States history from the post-reconstruction period to the present, designed especially for honors students.	
	<i>Prerequisite: Departmental approval.</i>	
<b>2301</b>	<b>History of Texas</b>	<b>3:3:0</b>
	Texas history from the beginning to the present time.	
<b>2321</b>	<b>History of World Civilization</b>	<b>3:3:0</b>
	World history to 1660.	
<b>2322</b>	<b>History of World Civilization</b>	<b>3:3:0</b>
	World history from 1660 to 1965.	

2373	<b>American History: The Development of Society in America</b>	3:3:0
	Social change in the United States.	
2374	<b>American History: The Arts in America</b>	3:3:0
	Cultural life in the United States.	
2377	<b>Military History of the United States</b>	3:3:0
	History of American warfare and the development of American military institutions and practices.	
	<i>NOTE: Various college and departments may counsel their majors into certain of the American history courses listed above; otherwise the student may satisfy the American history requirement by taking any two courses selected from HIST 1301, 1302, 2373, 2374 or 2377.</i>	
2660	<b>Honors The American Experience</b>	6:5:0
	Interdisciplinary survey of American civilization, with emphasis on American history and literature.	
	<i>Meets five time per week; grants 9 hours credit, inclusive of core curriculum 6-hour American history (HIST 1301 and 1302) requirement and 3-hour American literature (ENGL 2326 only) requirement.</i>	
3390	<b>Historical Research</b>	3:3:0
	Principles and methods of historical research.	
4300	<b>Era of the Renaissance and Reformation</b>	3:3:0
	Western Europe from 1453 to 1610.	
4310	<b>The Old Regime</b>	3:3:0
	Western Europe from 1610 to 1783.	
4311	<b>Colonial America</b>	3:3:0
4314	<b>The American Civil War</b>	3:3:0
4315	<b>Reconstruction and Industrialization: The United States from 1865 to 1898</b>	3:3:0
4316	<b>World Power and Reform: The United States from 1898 to 1920</b>	3:3:0
4318	<b>Classical Civilization</b>	3:3:0
	Greece and Rome from earliest times to the fall of the Roman Empire in the West.	
4319	<b>Medieval Civilization</b>	3:3:0
	Western Europe and the Mediterranean area from the late Roman period to 1453.	
4324	<b>The French Revolution and Napoleon</b>	3:3:0
	Western Europe from 1783 to 1815.	
4325	<b>Tudor and Stuart England</b>	3:3:0
	England from 1485 to 1688.	
4327	<b>Victorian England</b>	3:3:0
	Great Britain from 1815 to 1914.	
4328	<b>Contemporary America: The United States Since 1940</b>	3:3:0
4335	<b>Topics in History</b>	3:3:0
	Selected special topics in major areas of history: Course may be repeated for a maximum of six semester hours credit when the topic varies.	
4341	<b>World War II</b>	3:3:0
	A military, political and social history of World War II.	
4342	<b>Nazi Germany</b>	3:3:0
	A military, political, and social history of Nazi Germany.	
4350	<b>20th Century Europe</b>	3:3:0
	Europe since 1914.	
4390	<b>Honors Program</b>	3:A:0
	A tutorial program for honors seniors. Admission by invitation only.	



## Department of Physics

**Interim Department Chair:** Hugh Peebles      **230 Archer Building, Phone 880-8241**

**Professors:** Melvin, Pizzo

**Associate Professor:** Peebles

**Assistant Professor:** Irwin

**Laboratory Technician:** Betty Scott

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-Beaumont 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 the Physics Department is one of the most flexible in the University. It offers many options and electives which make it possible to get a good foundation in physics as well as the necessary background to go into many other fields. Two undergraduate degrees are offered: the Bachelor of Science (B.S.) and the Bachelor of Arts (B.A.).

### 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-Beaumont 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

Differential Equations (MATH 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 3450 or 3350 Waves and Modern Physics

PHYS 3380 Electricity and Magnetism

PHYS 4320 Quantum Mechanics

**D. Electives:**

Additional physics electives to attain at least 32 semester hours of physics including 24 advanced hours.

Additional general electives to attain a total of 120 semester hours (not including required two semesters of PEGA and HLTH 1370).

**Suggested Program of Study – Bachelor of Science in Physics**

First Year		Second Year	
PHYS 1370, 2425 .....	7	PHYS 2426, 3350/3450, .....	7/8
MATH 2413, 2414 .....	8	MATH 2415, Differential Equations .....	7
CHEM 1411, 1412 .....	8	Option Courses and/or	
Engl Comp .....	6	Electives .....	3
PHIL 1370 .....	3	Engl Lit* .....	6
PEGA .....	2	Fine Art* .....	3
		HLTH 1370 .....	3
		PEGA .....	2
	34		31/32
Third Year		Fourth Year	
PHYS 3430, 3380 .....	7	PHYS 4320 .....	3
Advanced Phys .....	4	Advanced Phys .....	4
Pol Sci .....	6	History .....	6
Soc Sci* .....	3	COMM 1315* .....	3
Option Courses and/or		Option Courses and/or	
Physics .....	11	Physics .....	15
	31		31

Total: 127 or more

\*See a Physics Advisor about allowed options.

**Bachelor of Arts – Physics Major**

The B.A. degree plan provides a background in physics for students planning extensive study in other fields in which physics would serve as a useful and essential complement. A wide variety of curricula, based on this plan, are available - for example, the required preparation for teaching physics, physical science and mathematics in secondary schools is a viable option. Pre-medical, pre-dental and pre-law requirements can be satisfied within the program. Also, this plan could be used to prepare students for careers in technical writing or industrial technical support.

The degree of Bachelor of Arts in Physics will be awarded upon completion of the following requirements.

**A. General Requirements:**

See the Philosophy of Knowledge Core Curriculum, Degree Requirements, and the Minimum Standards for Undergraduate Majors in the College of Arts and Sciences.

Note: Requirements for the B.A. degree include the completion of the course numbered 2312 in a foreign language, six semester hours of literature and a minor of 18 semester hours, six of which must be in advanced courses.

**B. Science and Mathematics:**

CHEM 1411, 1412

15 or more semester hours of mathematics including Calculus I and Calculus II

**C. Physics:**

General Physics I and II

PHYS 3450 or 3350 Waves and Modern Physics

Additional physics electives to attain a total of at least 26 semester hours of physics including 15 advanced hours.

**D. Electives:**

General electives to attain a total of 120 semester hours (not including required two semesters of PEGA and HLTH 1370).

### Suggested Program of Study – Bachelor of Arts in Physics

#### First Year

Math Electives .....	6
Engl Comp .....	6
PHIL 1370 .....	3
History .....	6
Elective or Minor .....	6
PEGA .....	4

31

#### Second Year

Calculus I & II .....	6-8
Physics I & II .....	8
Foreign Language .....	6
Pol Sci .....	6
Engl Lit .....	6

32-34

#### Third Year

Math Electives .....	3
CHEM 1411 & 1412 .....	8
For Lang .....	6
PHYS 3350/3450 .....	3/4
Advanced Physics .....	3
Elective or Minor .....	5
HLTH 1370 .....	3

31/32

#### Fourth Year

Advanced Physics .....	9
Electives or Minor .....	14
Soc Sci* .....	3
Fine Arts* .....	3
COMM 1315* .....	3

32

Total: 127 or more

\*See a Physics Advisor about allowed options.

## Minor in Physics

A student minoring in physics must complete 20 semester hours of physics, including general physics, modern physics and six additional semester hours of physics at the junior-senior level.

## Physics Courses (PHYS)

- |             |  |              |
|-------------|--|--------------|
| <b>1370</b> | <b>Mathematical Methods in Physics</b><br>Mathematics applied to physics problems, graphical analysis, vector operations, fields and potentials.<br><i>Prerequisite: Registration in or credit for MATH 2413.</i>  | <b>3:3:0</b> |
| <b>1311</b> | <b>Descriptive Astronomy</b><br>A survey of facts and an introduction to important astronomical theories. The solar system, stars, nebulae and star systems.   | <b>3:3:0</b> |
| <b>1401</b> | <b>General Physics, Mechanics and Heat</b><br>Designed for majors in the physical or natural sciences. Emphasis is placed upon understanding and application of basic physical laws.<br><i>Prerequisite: MATH 1316 or high school trigonometry.</i>  | <b>4:3:2</b> |
| <b>1402</b> | <b>General Physics, Sound, Light, Electricity and Magnetism</b><br>A continuation of PHYS 1401.<br><i>Prerequisite: PHYS 1401.</i>   | <b>4:3:2</b> |
| <b>1405</b> | <b>Conceptual Physics</b><br>Designed for non-science/non-engineering majors. The basic interactions in nature, how things move and why, are studied.  | <b>4:3:2</b> |
| <b>1407</b> | <b>Conceptual Physics</b><br>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.   | <b>4:3:2</b> |
| <b>2170</b> | <b>Supplemental Laboratory</b><br>Designed to allow a transfer student to make up one laboratory deficiency at the introductory level.<br><i>Departmental approval is required to enroll.</i>  | <b>1:0:3</b> |
| <b>2425</b> | <b>Calculus Based Physics I</b><br>Mechanics, vibrations, heat.<br><i>Prerequisite: Registration in or credit for MATH 2414 and permission of department chair.</i>  | <b>4:3:3</b> |
| <b>2426</b> | <b>Calculus Based Physics II</b><br>Electricity, magnetism, sound waves, optics.<br><i>Prerequisite: PHYS 2425 and registration or credit for MATH 2414.</i>   | <b>4:3:3</b> |
| <b>3310</b> | <b>Physics Experiments</b><br>Selected experiments in mechanics, electromagnetics, waves and nuclear physics which reach beyond the scope of introductory laboratories.<br><i>Prerequisite: 8 hours of introductory physics including a laboratory component.</i>  | <b>3:1:6</b> |
| <b>3350</b> | <b>Waves and Modern Physics</b><br>Conservation laws; special relativity; quantum effects; atomic structure; X-rays, nuclear and solid state physics.<br><i>Prerequisite: PHYS 2426 or 1401, 1402 and MATH 2415.</i>   | <b>3:3:0</b> |
| <b>3380</b> | <b>Electricity and Magnetism</b><br>Electrostatic fields; potential; capacitance; dielectrics; electromagnetic waves. Maxwell's equations; conduction in gases; thermoelectricity.<br><i>Prerequisite: PHYS 2426 or 1401, 1402 and credit for or registration in Differential Equations.</i>   | <b>3:3:0</b> |
| <b>3390</b> | <b>Statistical Physics</b><br>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.<br><i>Prerequisite: PHYS 3430, Differential Equations and credit or registration in Modern Physics.</i> | <b>3:3:0</b> |

- 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:* *Phy 247 or 141-142 and credit for, or registration in, differential equations.*
- 3450 Waves and Modern Physics** 4:3:3  
Conservation laws; special relativity; quantum effects; atomic structure; X-rays, nuclear and solid state physics.  
*Prerequisite:* *PHYS 2426 or 1401, 1402 and MATH 2415.*
- 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 staff 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 3430, Modern Physics and Differential equations.*
- 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:* *Modern Physics and Differential Equations.*

## Department of Political Science

**Department Chair:** Glenn H. Utter

**56 Maes Building, Phone 880-8526**

**Professors:** Castle, Drury, Utter

**FAX 880-8710**

**Associate Professors:** Dubose, Lanier, Vanderleeuw

**Assistant Professors:** Davis, True

The Political Science curriculum provides all university students with knowledge and appreciation of national and state political processes and equips majors with a broad understanding of the various areas of the discipline to prepare them for graduate school and careers in law, government service, teaching, journalism, and business.

To accomplish these objectives, the Department offers courses of study which introduce students to the discipline and methods of Political Science and its sub-fields: American government and politics, political philosophy, international relations, comparative politics, and public administration and policy.

The Political Science faculty members have earned doctorates in a wide range of specializations within the broad areas of the discipline. The faculty's expertise is complemented by active involvement in scholarly research.

The Department of Political Science offers the following undergraduate degrees: Bachelor of Arts in Political Science, Bachelor of Science in Political Science, Bachelor of Arts in Political Science with Teacher Certification, and Bachelor of Science in Political Science with 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 history, English, and foreign language) and the enhancement of technical skills (including computer science, accounting, and mathematics). With a large number of 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.

A Pre-Law Counselor in the Political Science Department specializes in advice to Pre-Law students, maximizing their chances for success on the Law School Admission Test and assisting them in the process of application to law school.

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.

## 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 2313, 1336, 1316, 1324, 1325, 2305 or higher.
- 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 3340, 3350, 3390, 3301, 3313, 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 six advanced hours.
- D. Additional requirements (19 semester hours)  
Completion of 2312 in a foreign language (normally 12 semester hours)  
Two semesters of physical activity  
HLTH 1370
- E. Electives  
A number sufficient to total 127 semester hours (with at least 120 exclusive of physical activity and health and wellness courses), including 30 advanced, 24 at Lamar University.

### Suggested Program of Study Bachelor of Arts in Political Science

First Year	Second Year
POLS 2304 ..... 3	Engl Lit ..... 6
Engl Comp ..... 6	For Lang ..... 6
For Lang ..... 6	HLTH 1370 ..... 3
Mathematics, including 1314 and three hours from MATH 2312, 1336, 1316, 1324, 1325, 2305 or higher ..... 6	HIST 1301-1302 ..... 6
PEGA ..... 4	POLS 2301-2302 ..... 6
PHIL 1370 ..... 3	POLS 3319 ..... 3
COMM 1315 ..... 3	Fine Arts (from HUMA 1315, MUSI 1306, ARTS 1301, THEA 1310 or DANC 1370) ..... 3

**Third Year**

Political Science advanced .....	9
Social science (ANTH 2346, ECON 1301, PSYC 2301 or SOCI 1301) .....	3
Laboratory science .....	8
Minor .....	9
Elective .....	3

32

**Fourth Year**

Political Science advanced .....	6
Minor .....	9
Electives .....	16

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 Mth 2312, 1336, 1316, 1324, 1325 or 2305 or higher.

**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 3340, 3350, 3390, 3301, 3313, 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 six advanced hours.

**D. Additional requirements (19 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

Two semesters of physical activity

HLTH 1370

**E. Electives**

A number sufficient to total 127 semester hours (with at least 120 exclusive of physical activity and health and wellness courses), including 30 advanced, 24 at Lamar University.



## Suggested Program of Study Bachelor of Science in Political Science

First Year	Second Year
POLS 2304 ..... 3	Engl Lit ..... 6
Engl comp ..... 6	HIST 1301-1302 ..... 6
Social Science (from ANTH 2346, ECON 1301, PSYC 2301 or SOCI 1301) ..... 3	POLS 2301-2302 ..... 6
Mathematics, including MATH 1314 and three hours from MATH 2312, 1336, 1316, 1324, 1325, 2305 or higher ..... 6	POLS 3319 ..... 3
PEGA ..... 4	COSC 1371 ..... 3
PHIL 1370 ..... 3	Approved electives ..... 9
COMM 1315 ..... 3	
Fine Arts (from HUMA 1315, MUSI 1306, ARTS 1301, THEA 1310 or DANC 1320) ..... 3	
31	33
Third Year	Fourth Year
POLS 4319 ..... 3	Poli Sci advanced ..... 6
Poli Sci advanced ..... 9	Minor ..... 9
Lab science ..... 8	Electives ..... 16
HLTH 1370 ..... 3	
Minor ..... 9	
32	31

## Bachelor of Arts – Political Science Major with Teacher Certification

Students wishing to secure the Bachelor of Arts in Political Science and at the same time certify for a provisional certificate with Political Science as a teaching field must meet the following requirements:

**A. General Requirements:**

See core curriculum, p. 15. In addition, students may choose three hours of Math from MATH 2312, 1336, 1316, 1324, 1325, 2305 or higher Math. Lab Science must include eight hours in the same science; Communication must be 1315 or 3310.

**B. Major (24 semester hours, 6 in the 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, 3350, 3390, 3301, 3313, 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. Teaching Field II (24 semester hours)**

An approved second teaching field of 24 semester hours.

- D. Pedagogy (21 semester hours)  
PEDG.3326, 3310, 3320, 3380, 4380 and 4620
- E. Foundation requirements (18 semester hours)  
Completion of 2312 in a foreign language (normally 12 semester hours)  
Computer Science 1371  
Political Science 3319 - Statistics for Social Scientists
- F. Additional requirements (7 semester hours)  
Two semesters of physical activity and HLTH 1370
- G. The minimum number of semester hours required for the Bachelor of Arts in Political Science with teacher certification is 138 (with at least 131 exclusive of physical activity and health and wellness courses), including 30 advanced, 24 at Lamar University.

### Suggested Program of Study – Bachelor of Arts in Political Science with Teacher Certification

First Year	Second Year
POLS 2304 ..... 3	Engl Lit ..... 6
Engl Comp ..... 6	For Lang ..... 6
For Lang ..... 6	POLS 2301-2302 ..... 6
Mathematics, including 1314 and three hrs from 2312, 1336, 1316, 1324, 1325 or 2305 ..... 6	POLS 3319 ..... 3
Fine Arts (from HUMA 1315, MUSI 1301, ARTS 1301, THEA 1310 or DANC 1370) ..... 3	HIST 2301-2302 ..... 6
PEGA ..... 4	Second teaching field ..... 6
PHIL 1370 ..... 3	COSC 1371 ..... 3
Social science (from ANTH 2346, ECON 1301, PSYC 2301, or SOCI 1301) ..... 3	
HLTH 1370 ..... 3	
37	36
Third Year	Fourth Year
Political Science advanced ..... 12	COMM 1315 or 3310 ..... 3
Second teaching field ..... 6	Poli Sci advanced ..... 3
PEDG 3326, 3310, 3320 ..... 9	Second teaching field ..... 12
Laboratory science (same science) ..... 8	PEDG 3380, 4380, 4620 ..... 12
35	30

### Bachelor of Science – Political Science Major with Teacher Certification

Students wishing to earn the Bachelor of Science in Political Science and at the same time certify for a provisional certificate with Political Science as a teaching field must meet the following requirements:

- A. General Requirements:  
See core curriculum. In addition, students may choose three hours of Math from MATH 2312, 1336, 1316, 1324, 1325, 2305 or higher. Lab Science must include eight hours in the same science; Communication must be 1315 or 3310.
- 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, 3350, 3390, 3301, 3313, 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. Teaching Field II (24 semester hours)  
An approved second teaching field of 24 semester hours:
- D. Pedagogy (21 semester hours)  
PEDG 3326, 3310, 3320, 3380, 4380 and 4620
- E. Foundation requirements (18 semester hours)  
Economics 2302-2301  
Computer Science 1371  
Political Science 3319 - Statistics for Social Scientists  
Political Science 4319 - Advanced Research Methods  
Elective - three semester hours chosen from HIST 2321, HIST 2322, ANTH 2346, GEOL 2376, or GEOL 2377
- F. Additional requirements (7 semester hours)  
Two semesters of physical activity and HLTH 1370
- G. The minimum number of semester hours required for the Bachelor of Science in Political Science with teacher certification is 138 (with at least 131 exclusive of physical activity and health and wellness courses), including 30 advanced, 24 at Lamar University.

### Suggested Program of Study – Bachelor of Science in Political Science with Teacher Certification

#### First Year

POLS 2304 .....	3
Engl Comp .....	6
Mathematics, incl. 1314 and 3 hrs. from 2312, 1336, 1316, 1324, 1325, or 2305 .....	6
PSYC 2301 .....	3
ECON 2302-2301 .....	6
PEGA .....	4
PHIL 1370 .....	3
Fine Arts (from HUMA 1315, MUSI 1301, ARTS 1301, THEA 1310 or DANC 1370) .....	3
Elective (from HIST 2321, HIST 2322, ANTH 2346, GEOL 2376) .....	3

#### Second Year

Engl Lit .....	6
POLS 2301-2302 .....	6
POLS 3319 .....	3
Laboratory science (same science) .....	8
HIST 1301-1302 .....	6
HLTH 1370 .....	3
COSC 1371 .....	3

## Third Year

POLS 4319 .....	3
Poli Sci advanced .....	9
PEDG 3326, 3310, 3320 .....	9
Second teaching field .....	12
COMM 1315 or 3310 .....	3

## Fourth Year

Poli Sci advanced .....	6
Second teaching field .....	12
PED 3380, 4380, 4620 .....	12

36

30

## Political Science Courses (Pols)

- 2301 Introduction to American Government I** 3:3:0  
The national and Texas constitutions; federalism; political socialization and participation; public opinion and interest groups; parties, voting and elections.  
*Prerequisite: Sophomore standing.*
- 2302 Introduction to American Government II** 3:3:0  
The legislative, executive and judicial branches and the bureaucracy; policy formulation and implementation including civil rights and civil liberties, domestic and foreign policies.  
*Prerequisite: POLS 2301.*
- 2304 Introduction to Political Science** 3:3:0  
An introductory survey of the concepts, techniques, and methods for analyzing the political behavior of individuals, groups, and nations.
- 3210 Legal Internship I** 2:2:0  
Practical experience in law office procedure and operation with career related assignments and projects under the guidance of a faculty member.  
*Prerequisite: Approval of department chair.*
- 3220 Legal Internship II** 2:2:0  
Practical experience in law office procedure and operation with career related assignments and projects under the guidance of a faculty member.  
*Prerequisite: Approval of department chair, POLS 3210.*
- 3230 Legal Internship III** 2:2:0  
Practical experience in law office procedures and operation with career related assignments and projects under the guidance of a faculty member.  
*Prerequisite: Approval of department chair, POLS 3220.*
- 3310 Government and Politics of Europe** 3:3:0  
Political institutions, processes and public policies of the European countries, including Russia and other former Communist states.
- 3320 International Politics** 3:3:0  
The concepts underlying the Western State system; nationalism and imperialism; the techniques and instruments of power politics and the foreign policies of selected states.
- 3340 American Political Parties and Interest Groups** 3:3:0  
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.
- 3350 American Presidency** 3:3:0  
The operation of the office in foreign and domestic decision-making, including political, social and economic policy areas.
- 3370 Politics of American Foreign Policy** 3:3:0  
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.
- 3390 Urban Politics** 3:3:0  
Organization and development of urban governments in the United States. Interrelationships among urban problems, political behavior and policy will be examined.

- 3301 Legislative Process** 3:3:0  
The structure, functioning and political control of legislative bodies.
- 3313 Judicial Process** 3:3:0  
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.
- 3316 Introduction to Public Administration** 3:3:0  
American public administration, with emphasis upon modern problems and trends.
- 3317 Politics of Developing Nations** 3:3:0  
Political systems of Latin America, Africa, the Middle East and Asia, focusing on ideologies, interest groups, political parties, elites and problems in political development.
- 3319 Statistics for Social Scientists** 3:3:0  
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.
- 4300 Organization Theory and Behavior** 3:3:0  
Structural and management aspects of public administration, theory and practice; policy formation processes and techniques.
- 4320 Political Thought I** 3:3:0  
Western political thought from the Greeks to the 17th Century.
- 4330 Political Thought II** 3:3:0  
Political philosophy from the 18th Century to the present with emphasis on contemporary theorists.
- 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 at the national, state and local levels. 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.
- 4390 Special Topics in Political Science** 3:3:0  
Selected special topics from the subfields of political sciences. Course may be repeated for credit when the topic varies.
- 4310 Directed Study** 3:3:0  
Students may study individually with an instructor in an area of mutual interest to the student and the instructor.  
*Prerequisite: Approval of chair of Department of Political Science.*
- 4319 Advanced Research Methods** 3:3:0  
Special problems, topics, cases, models and theories in political science research.
- 4381 Government and Politics of Asia** 3:3:0  
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** 3:3:0  
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.

## Department of Psychology

**Department Chair:** Richard G. Marriott

**103 Psychology Building**

**Professors:** Esser, Marriott

**Phone 880-8285**

**Associate Professors:** Lindoerfer, Fitzpatrick

**Assistant Professors:** Mann

### Admission to Department of Psychology Programs

Students wishing to major in psychology must present SAT/ACT scores of 800/20. 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:

1. **General Requirements:**

See core curriculum, p. 15. Plus Biology 1406-1407, 12 semester hours and completion of 232 course in foreign language and Health 1370.

2. **Major:**

Psychology 2301 General Psychology

Psychology 2471 Introduction to Statistical Methods

Psychology 3420 Methods in Psychology

Psychology: an additional 15 semester hours, a minimum of nine semester hours must be on the advanced level

3. **Minor:**

An approved minor of 18 semester hours, a minimum of six 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 Program of Study**

<b>First Year</b>		<b>Second Year</b>	
BIOL 1406-1407 .....	8	Engl Lit .....	6
Engl Comp .....	6	For Lang .....	6
For Lang .....	6	HIST 1301-1302 .....	6
Math .....	6	PSYC 2471 Intro to Statistical Methods .....	4
PSYC 2301 General Psychology .....	3	COMM 1315 .....	3
PEGA .....	4	Fine Arts .....	3
PHIL 1370 .....	3	Electives .....	8
		HLTH 1370 .....	3
	36		31
<b>Third Year</b>		<b>Fourth Year</b>	
POLS 2301-2302 .....	6	Psyc Advanced .....	9
PSYC 3420 Methods in Psych .....	4	Minor .....	9
Psyc Advanced .....	6	Electives .....	12
Minor .....	9		
Electives .....	6		
	31		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, eight semester hours of physical science, three hours of Computer Science and Health 137.
2. Major:  
Psychology 2301 General Psychology  
Psychology 2471 Introduction to Statistical Methods  
Psychology 3420 Methods in 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 six 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**

BIOL 1406-1407 Gen Bio .....	8
Engl Comp .....	6
Math .....	6
Science .....	8
PSYC 2301 General Psychology .....	3
PEGA .....	4
PHIL 1370 .....	3

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**Second Year**

COMM 1315 .....	3
Engl Lit .....	6
Comp Sci .....	3
Psychology .....	3
PSYC 2471 Intro to Statistical Methods .....	4
HIST 1301-1302 .....	6
Fine Arts .....	3
HLTH 1370 .....	3
Electives .....	3

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**Third Year**

POLS 2301-2302 .....	6
PSYC 3420 Methods in Psychology .....	4
Psyc Advanced .....	6
Minor .....	6
Electives .....	6

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**Fourth Year**

Minor .....	6
PSYC 4430 Experimental Psy .....	4
Psyc Advanced .....	9
Minor .....	6
Electives .....	6

31

Total 128 hours

**\* 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

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**Second Year**

CHEM 3411, 3412 Organic .....	8
BIOL 2428 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

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**Summer**

POLS 2301, 2302 .....	6
Fine Arts .....	3
HLTH 1370 .....	3

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## 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

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## Fourth Year

BIOL 3460 Invertebrate Zoology .....	4
BIOL 4170 Classical Biological Literature .....	2
**Biol Electives .....	12
# Psyc Advanced .....	6
Electives .....	13

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\*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)

<b>2301 General Psychology</b>	<b>3:3:0</b>
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.	
<b>2308 Child Psychology</b>	<b>3:3:0</b>
A study of the growth and development of behavior patterns in children.	
<b>2376 Adult Development and Aging</b>	<b>3:3:0</b>
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>	
<b>2471 Introduction to Statistical Methods</b>	<b>4:3:2</b>
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>	
<b>3310 Systems and History of Psychology</b>	<b>3:3:0</b>
Historical development of psychology. Emphasis on the evolution of major systems of psychology.	
<i>Prerequisite: PSYC 2301.</i>	
<b>3320 Psychology of Personality</b>	<b>3:3:0</b>
A study of several of the major theories of personality organization and adjustment processes.	
<i>Prerequisite: PSYC 2301.</i>	
<b>3330 Psychology of Social Interaction</b>	<b>3:3:0</b>
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.	
<i>Prerequisite: PSYC 2301.</i>	
<b>3340 Industrial Psychology</b>	<b>3:3:0</b>
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.	
<i>Prerequisite: PSYC 2301.</i>	
<b>3360 Psychological Tests and Measurements</b>	<b>3:3:0</b>
Theory and use of instruments for measurements of intelligence, interests, aptitude and attitudes.	
<i>Prerequisite: PSYC 2301, 2471 or equivalent or permission of instructor.</i>	
<b>3420 Methods in Psychology</b>	<b>4:3:2</b>
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 experiments are designed, conducted and reported by students.	
<i>Prerequisite: PSYC 2301 and 2471.</i>	

- 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 in Medical Ethics** 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 Nursing

**Department Chair:** Alexia Green

**233B Ward Health Sciences Building**  
**Telephone: 880-8868**  
**Fax: 880-1865**

**Associate Professor:** Green, Esperat

**Assistant Professors:** Boyd, Bumpus, Carroll, Giordano, Hall, Kerr, Mason, P. Moss, H. Moss, Price-Nealy, Skeels, Slaydon, J. Smith, Rabalais

**Instructors:** Brannan, Creed, Godkin, Long, Rivers, Roberts, Robinson, S. Smith, Stinson, Walker, Wallace

**Clinical Instructors:** Hunter, Pinchinat, Sexton

**Adjunct Instructor:** Chalambaga

The mission of the Lamar University Department of Nursing is to educate qualified, competent nurses who are value-oriented and prepared for reality-based practice. Through community linkages and the varied practice of our faculty and graduates, the Department promotes excellence in health care delivery to diverse racial, cultural, and ethnic populations.

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, 350 Hudson St.,

New York, NY 10014, (212) 989-9393). The Department of Nursing is represented by a local chapter (Kappa Kappa) in Sigma Theta Tau International Honor Society of Nursing. Students and graduates who meet the criteria may be offered the opportunity to become members of this prestigious honor society.

**Associate Degree (AD) graduates** are prepared as beginning practitioners to provide direct nursing care and coordinate care for defined numbers of clients with varying health care needs in structured settings. The level of responsibility of the AD graduate is for a specified work period (e.g., shift) and is consistent with the identified goals of care and established nursing standards, protocols, and pathways. The focus of care of the AD graduate is the individual and family as clients. AD graduates are also prepared to utilize technology and pursue life-long learning.

**Baccalaureate Degree (BS) graduates** are prepared to think logically by synthesizing information from various disciplines, and analyzing problems critically commensurate with the level of education. The BS graduate functions with a longitudinal focus across time from preadmission to discharge. The BS graduate is prepared to practice in structured, unstructured, and evolving health care settings. The focus of care is broad. The BS graduate is prepared to deliver health care to individuals and families as clients, as well as aggregates, communities and societies within the context of their environment. BS graduates are also prepared to incorporate research findings, utilize technology, pursue graduate education and life-long learning.

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 program directors.

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.

## Admission and Progression in Department of Nursing Programs

Students enrolled at Lamar University must submit an application for Admission to Nursing programs. Students wishing to change their major to nursing must have a minimum cumulative GPA of 2.0, have met the 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, Ward Health Sciences Building).

Applications for admission to the Nursing Programs must be received by **March 1** prior to the fall semester admission is sought. Applications to the LVN-Mobility Program must be received by **October 1** prior to the spring semester for which admission is sought. In addition, the following items must accompany the application:

- Application fee
- Official transcript
- Official transcript evaluation by Lamar University
- Written documentation of passing all components of TASP

Applicants are urged to follow application instructions carefully to ensure processing by the admission committees. 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.

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. Priority for admission to the respective nursing programs will be given to students who have met the admission criteria and standards at the end of the Spring semester preceding Fall admission. If space is available after the initial qualifying date, additional consideration will be given to students at the end of Summer I and Summer II respectively.
6. Preference is given to students who have completed preadmission courses at Lamar University in Beaumont, Texas.
7. See program of choice for additional requirements.

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 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.

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 able to re-enter 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 re-admission to the Admissions Committee by **October 1** for Spring admission and **March 1** for Summer and Fall admission.

### 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. Further explanation is provided in the *Student Information Guide*.

## Bachelor of Science – Nursing

**Program Director:** Alexia Green

Completion of the program leads to a Bachelor of Science in Nursing 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 tract is called the RN-BSN Articulation Curriculum. Please refer to separate admission requirements.

To be considered for admission the student must:

1. Have a minimum grade of "C" with an overall grade point average (GPA) of 2.00.
2. Have a minimum grade of "C" with an overall grade point average (GPA) of 2.00 in the sciences (Biology and Chemistry courses).
3. Have completed all prerequisite courses with a minimum grade of "C".
4. Also see Admission to Department of Nursing criteria.

## Bachelor of Science – Nursing Major

### Suggested Program of Study

*NOTE: This curriculum plan is in effect for all students entering the program Fall 1998 pending approval by the Texas Higher Education Coordinating Board and the Board of Nurse Examiners for the State of Texas.*

#### \*Preadmission Courses

Fall Semester		Spring Semester	
BIOL 2401 Anat & Phys .....	4	BIOL 2402 Anat & Phys .....	4
MATH 1314 Algebra .....	3	@ CHEM 1411/1412/1405 .....	4
PSYC 2308 Child Psychology .....	3	PSYC 2360 Adult Aging/Dev .....	3
ENGL 1301 Composition .....	3	ENGL 1302 Composition .....	3
PHIL 1370 Philosophy .....	3	FCSC 1322 Intro to Nutrition .....	3
PEGA .....	2	PEGA .....	2

**Summer I**

BIOL 2420 Microbiology .....	4
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**Second Year****Fall Semester**

# NURS 1671 Provider of Care I .....	6
NURS 1272 Tech/Psychom Skills I .....	2
NURS 1373 Pathophysiology .....	3
NURS 1174 Professional Practice I .....	1
Engl Literature .....	3
Fine Arts .....	3
^ Communications 1315 .....	0

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**Spring Semester**

NURS 1675 Provider of Care II .....	6
NURS 1276 Tech/Psychom Skills II .....	2
NURS 2177 Professional Practice II .....	1
NURS 1378 Pharmacology .....	3
Engl Literature .....	3
POLS 2301 Political Science .....	3

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**Summer I**

NURS 2579 Provider of Care III .....	5
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**Third Year****Fall Semester**

NURS 2571 Community Focus I .....	5
★ NURS 2172 Tech/Psychom Skills III .....	1
NURS 3273 Professional Practice III .....	2
NURS 3374 Advance Pathophy .....	3
HIST 1301 History .....	3
POLS 2302 Political Science .....	3

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**Spring Semester**

NURS 3475 Coordinator of Care I .....	4
NURS 3576 Community Focus II .....	5
+NURS 3377 Nursing Elective .....	3
PSYC 2471 Intro to Statistical Methods .....	4

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**Summer II**

NURS 3478 Coordinator of Care II .....	4
HIST 1302 History .....	3

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**Fourth Year****Fall Semester**

NURS 4371 Coordinator of Care III .....	3
NURS 4472 Provider of Care IV .....	3
NURS 4273 Professional Practice IV .....	4
NURS 4274 Tech/ Psychom Skills IV .....	2
** Elective Non-major .....	3

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**Non-nursing Credits= 69****Nursing Credits= 67****Total Credits= 136**

\* Preadmission courses must be taken prior to admission to the nursing program.

\*\* Restricted to designated social science courses.

# Meets HLTH 1370 requirement for students completing the Nursing Major requirements.

^ Met by extensive oral communication assignments within the degree plan.

+ Students are encouraged to take this course sooner, if possible. Nursing electives are offered during varying semesters.

@ See Chemistry prerequisites- Chemistry 1405 will be accepted only in 1998. Chemistry 1406 becomes effective 1999.

★ May be taken during 2nd year, Spring semester or 3rd year fall.

## Bachelor's Degree Nursing Courses (NURS)

### 1174 Professional Practice I

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

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, 1174

### 1276 Tech/Psychomotor Skills II

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, 1174, 1671 or departmental consent.

*Corequisites:* NURS 1675, 1378, 2177.

### 1373 Basic Pathophysiology

Study of basic pathophysiology with emphasis on mechanisms of disease processes. Focus 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, 1174.

### 1378 Pharmacology

Introduction to pharmacology, principles of therapeutics, and clinical applications with clients across the life span.

*Prerequisites:* NURS 1671, 1272, 1373, 1174 or departmental consent.

*Corequisites:* NURS 1675, 1276, 2177.

### 1671 Provider of Care I

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, 1174.

### 1675 Provider of Care II

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, 1174 or departmental consent.

*Corequisites:* NURS 1276, 2177, 1378.

### 2172 Tech/Psychomotor Skills III

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, 1174 or departmental consent.

### 2177 Professional Practice II

Builds upon Professional Practice I in assuming responsibility and accountability as a member of the profession for the quality of client care provided to individuals, families, aggregates, and society. Introduces

the role of the nurse in being accountable and responsive to regulatory agencies in shaping the delivery of health care. Continues development of the research process. Provides a beginning foundation for future participation and leadership in professional associations and activities.

*Prerequisites:* NURS 1671, 1272, 1373, 1174 or departmental consent.

*Corequisites:* NURS 1675, 1276, 1378.

**2571 Community Focus I**

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, 2177, 1378 or departmental consent.

*Corequisites:* NURS 2172, 3273, 3374.

**2579 Provider of Care III**

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, 2177, 1378 or departmental consent.

*Corequisites:* None

**3273 Professional Practice III**

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, 2177, 1378 or departmental consent.

*Corequisites:* NURS 2571, 2172, 3374.

**3374 Advanced Pathophysiology**

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, 2177, 1378 or departmental consent.

*Corequisites:* NURS 2575, 2172, 3273.

**3377 Special Topics in Nursing**

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**

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 2571, 2172, 3273, 3374 or departmental consent.

*Corequisites:* NURS 3576.

**3478 Coordinator of Care II**

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

**3576 Community Focus II**

Focuses on the delivery of nursing care to aggregates, communities, and society (IFACS) in structured 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 promote, protect, and improve health. Clinical experiences allow opportunities to provide culturally



competent nursing care.

*Prerequisites:* NURS 2571, 2172, 3273, 3374 or departmental consent.

*Corequisites:* NURS 3475.

**4273 Professional Practice IV**

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**

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 2172, 3475, 3576, 3478 or departmental consent.

*Corequisites:* NURS 4371, 4472, 4273.

**4371 Coordinator of Care III**

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 3475, 3576, 3377, 3478 or departmental consent.

*Corequisites:* NURS 4472, 4273, 4274.

**4375 Directed Study in Nursing**

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**

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 Curriculum

**Coordinator:** Bessie Slaydon

**MFW 232**

**Phone: 880-8822**

This flexible program is designed for the career-oriented nurse seeking a Baccalaureate Degree in Nursing. The nurse must be registered in the State of Texas. Progression through the program is dependent upon the nurse's initial nursing preparation. Admission to Lamar University is required. Transcripts are evaluated by Lamar University and the RN-BSN program coordinator. Attendance may be full or part-time.

There is no testing of prior nursing knowledge. The nurse will complete only the courses required to receive a baccalaureate degree. It is imperative to work closely with the coordinator of the program. Applications for the program are accepted throughout the year.

## Associate of Applied Science – Nursing

**Program Director:** Doris J. Price-Nealy

Completion of the program leads to an Associate of Applied Science in Nursing degree. 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 also provides an opportunity for Licensed Vocational Nurses who wish to pursue an Associate of Applied Science in Nursing. This special tract is called the LVN-ADN Mobility Curriculum. Please refer to separate admission requirements.

To be considered for admission, the student must:

1. Have a minimum grade of "C" in all preadmission courses with an overall grade point average (GPA) of 2.00.
2. Have a minimum grade of "C" with an overall grade point average (GPA) of 2.00 in the sciences (Biology courses).
3. Have completed all preadmission courses with a minimum grade of "C".
4. See also Admission to Department of Nursing Program criteria.

## Associate of Applied Science in Nursing Suggested Program of Study

*Note: This curriculum plan is in effect for all students entering the program, fall 1998, pending approval by the Texas Higher Education Coordinating Board and the Board of Nurse Examiners for the State of Texas.*

### \* Preadmission Courses

Summer I Semester		Summer II Semester	
BIOL 2401 Anat & Phys .....	4	BIOL 2402 Anat & Phys .....	4
ENGL 1301 Composition .....	3	PSYC 2308 Child Psychology .....	3
<hr/>		<hr/>	
7		7	

### First Year

Fall Semester		Spring Semester	
NURS 1671 Provider of Care I .....	6	NURS 1675 Provider of Care II .....	6
NURS 1272 Tech/Psychom Skills I .....	2	NURS 1276 Tech/Psychom Skills II .....	2
NURS 1373 Patho Physiology .....	3	NURS 1378 Pharmacology .....	3
NURS 1174 Professional Practice I .....	1	PSYC 2360 Adult Aging/Development .....	3
MATH 1314 or 1337 .....	3	<hr/>	
15		14	

**Summer I**

NURS 2579 Provider of Care III ..... 5

**Second Year****Fall Semester**

NURS 2571 Community Focus I ..... 5  
 NURS 2172 Tech/Psychom Skills III ..... 1  
 \*\* BIOL 2420 Microbiology ..... 4

**Spring Semester**

NURS 2273 Professional Practice II ..... 2  
 NURS 2474 Coordinator of Care I ..... 4  
 NURS 2275 Provider of Care IV ..... 2  
 NURS 2176 Tech/Psychom Skills IV ..... 1  
 ENGL 1302 Composition ..... 3

10

12

\* Preadmission courses must be taken prior to admission to Fall semester of first year. Applications must be submitted by March 1, preceding the August that admission to desired first year of nursing.

\*\* Must be successfully completed to progress to Nurs 2474 and Nurs 2275.

## Associate of Applied Science in Nursing Courses (NURS)

**1174 Professional Practice I**

Introduction to assuming responsibilities 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 and ethical issues affecting health care system.

*Prerequisite:* Preadmission courses, admission to ADN program or departmental consent.

*Corequisite:* NURS 1373, 1671, 1272, MATH 1314 or 1337.

**1272 Tech/Psychomotor Skills I**

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 life span.

*Prerequisite:* Preadmission courses, admission to the ADN program or departmental consent.

*Corequisite:* NURS 1671, 1373, 1174, MATH 1314 or 1337.

**1276 Tech/Psychomotor Skills II**

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 life span in various stages of health.

*Prerequisite:* NURS 1272, 1373, 1174, 1671 or departmental consent.

*Corequisite:* NURS 1675, 1378, PSYC 2360.

**1373 Basic Pathophysiology**

Study of basic pathophysiology with emphasis on mechanisms of disease processes. Focus on basic understanding of alterations in health related to selected disease processes across the life span.

*Prerequisite:* Preadmission courses, admission to ADN program or departmental consent.

*Corequisite:* NURS 1671, 1272, 1174, MATH 1314 1337.

**1378 Pharmacology**

Introduction to pharmacology, principles of therapeutics, and clinical applications with clients across the life span.

*Prerequisite:* NURS 1671, 1272, 1373, 1174, MATH 1314 or 1337, or departmental consent.

*Corequisite:* NURS 1675, 1276, PSYC 2360.

**1671 Provider of Care I**

Focuses on holistic 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.

*Prerequisite:* Preadmission courses, admission to ADN program or departmental consent.

*Corequisite:* Nurs 1272, 1373, 1174, MATH 1314 or 1337.

**1675 Provider of Care II**

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.

*Prerequisite:* Nurs 1671, 1272, 1373, 1174, MATH 1314 or 1337, or departmental consent.

*Corequisite:* Nurs 1276, 1378, PSYC 2360.

**2172 Tech/Psychomotor Skills III**

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.

*Prerequisite:* NURS 1272, 1671, 1373, 1174, MATH 1314 or 1337, or departmental consent.

**2176 Tech/Psychomotor Skills IV**

Continuation of Technical/Psychomotor Skills I, II, and III. Facilitates transition into the professional role by providing final opportunities to practice technical psychomotor skills in structured settings.

*Prerequisite:* NURS 2571, 2172, BIOL 2420, or departmental consent.

*Corequisite:* NURS 2275, 2374, 2273.

**2273 Professional Practice II**

Builds upon skills obtained in Professional Practice I and facilitates transition into the professional role by introducing the role of the nurse in being accountable and responsive to regulatory agencies in shaping the delivery of health care. Provides preparation for national licensure.

*Prerequisite:* NURS 2571, 2172, BIOL 2420 or departmental consent.

*Corequisite:* NURS 2374, 2275, 2176, ENGL 1302.

**2579 Provider of Care III**

Continues to build on and integrate the concepts from Provider of Care I and Provider of Care II. Major emphasis is given to continued 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 chronic illness, including mental illness.

*Prerequisite:* Nurs 1675, 1276, 1378 or departmental consent.

**2275 Provider of Care IV**

Applies the concepts and practices learned in the three pre-requisite Provider of Care Courses. Utilizes critical thinking and scientific problem solving techniques in acute care or community settings to assist in the transition from student to practitioner while caring for clients under a selected clinical preceptor.

*Prerequisite:* Nurs 2571, 2172, BIOL 2420 or departmental consent.

*Corequisite:* Nurs 2273, 2374, 2176, ENGL 1302

**2474 Coordinator of Care I**

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 on quality outcomes, cost effectiveness, and integrated health care. In addition, experiences will include the development, utilization, and management of interdisciplinary teaching and practice. Opportunities are provided to function as entry-level managers.

*Prerequisite:* Nurs 2579, 2571, 2172, BIOL 2420 or departmental consent.

*Corequisite:* Nurs 2273, 2275, ENGL 1302.

**2571 Community Focus**

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.

*Prerequisite:* Nurs 1675, 1276, 1378, 2579 or departmental consent.

*Corequisite:* Nurs 2172, BIOL 2420.

## LVN/ADN Mobility Curriculum

**Coordinator:** Ruth Mason

**MMW 219**

**Phone: 880-8829**

The LVN/ADN Mobility Curriculum is an alternate track leading to an Associate of Applied Science degree in Nursing. This track facilitates upward educational mobility for the experienced licensed vocational nurse (LVN).

Students enrolling in this special track are required to be currently licensed in Texas as an LVN and have had recent employment in nursing. All preadmission courses must be completed with a grade of C or better. The student must be accepted as a student by the university and the Associate Degree Nursing Program. Applications to the nursing program are due **October 1** each year. Early academic advisement by the coordinator of the program is required.

## Department of Sociology, Social Work and Criminal Justice

**Department Chair:** Lorene H. Stone

**55 Maes Building, Phone 880-8538**

**Professors:** Altemose, Birdwell-Pheasant, Frazier, Johnson, Ma, Smith, Stone, Wright

**Associate Professors:** Monroe

**Assistant Professors:** Love, Quigley, Saur

Sociology, social work, and criminal justice share some common knowledge bases and are similar in many of their approaches to human behavior. The department strongly emphasizes personal academic counseling for all of its majors and encourages career oriented education. Courses in anthropology are also offered through this department.

The degrees offered by the department are: the Bachelor of Science in Sociology, the Bachelor of Arts in Sociology, the Bachelor of Social Work, the Bachelor of Science in Criminal Justice and the Bachelor of Arts in Criminal Justice. Each bachelor's degree offered by the department requires at least 120 semester hours, excluding Health 1370 and two semesters of physical activity. Students exempted from the physical activity requirement must submit elective hours approved by the major department in lieu of this requirement. Thus, the minimal total for a degree is 127 semester hours. The Social Work Program is fully accredited by the Council on Social Work Education. A major in social work will entitle the graduate to apply for Texas Certification as a social worker.

## 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 2.00 grade point average. All department majors must maintain a 2.00 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 bachelor's degrees offered by the department. The degree plan should include the following courses as electives or a minor.

- Criminal Justice 1306 — Courts and Criminal Procedures
- Criminal Justice 3300 — 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:** Lorene H. Stone

**55 Maes Building, Phone 880-8542**

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 sport to the sociology of work. 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 sport, 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.

## Teacher Certification – Sociology

Students wishing to secure the Bachelor of Arts or Bachelor of Science degree in sociology and at the same time certify for a secondary teaching certificate with a teaching field in sociology should consult with the department chair.

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 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 1324, 1314, or 1336 plus a statistics course.
- B. Major - 31 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 - Three hours
- 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 1301 .....	3	ENGL 1302 or 1374 or 135 .....	3
MATH 1314 .....	3	MATH 1342 or PSYC 2471 .....	3-4
Lab Science .....	4	Lab Science .....	4
PHIL 1370 .....	3	SOCI .....	3
SOCI 1301 .....	3	PEGA .....	2
PEGA .....	2		

**Second Year****First Semester**

Engl Lit .....	3
HIST 1301 .....	3
Anth .....	3
Comp Sci .....	3
SOCI .....	3
HLTH 1370 .....	3

18

**Second Semester**

Engl Lit or For Lang .....	3
HIST 1302 .....	3
Fine Arts .....	3
SOWK .....	3
SOCI .....	3

15

**Third Year****First Semester**

POLS 2301 .....	3
COMM 1315 .....	3
SOCI .....	3
Minor/Electives .....	6

15

**Second Semester**

POLS 2302 .....	3
CRIJ .....	3
SOCI (Adv.) .....	6
Minor/Electives .....	3

15

**Fourth Year****First Semester**

SOCI 4380 .....	3
SOCI 4110 .....	1
Minor/Electives .....	12

16

**Second Semester**

SOCI 4390 .....	3
SOCI (Adv.) .....	3
Minor/Electives .....	9

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 1301 ..... 3	ENGL 1302 or 1374 ..... 3
MATH 1314 ..... 3	MATH 1342 or PSYC 2471 ..... 3-4
Foreign Lang 1311 or 1313 ..... 3	Lab Science ..... 4
PHIL 1370 ..... 3	Foreign Lang 1312 or 1314 ..... 3
SOCI 1301 ..... 3	SOCI ..... 3
PEGA ..... 2	
17	16-17
Second Year	
First Semester	Second Semester
Engl Lit ..... 3	Engl Lit ..... 3
HIST 1301 ..... 3	HIST 1302 ..... 3
Foreign Lang 2311 ..... 3	Foreign Lang 2312 ..... 3
Lab Science ..... 4	Fine Arts ..... 3
SOCI ..... 3	SOCI ..... 3
PEGA ..... 2	HLTH 1370 ..... 3
18	18
Third Year	
First Semester	Second Semester
POLS 2301 ..... 3	POLS 2302 ..... 3
SOWK ..... 3	Anth ..... 3
CRIJ ..... 3	Comp Sci ..... 3
SOCI (Adv) ..... 3	SOCI (Adv) ..... 6
Minor/Elective ..... 3	
15	15
Fourth Year	
First Semester	Second Semester
COMM-1315 ..... 3	SOCI 4390 ..... 3
SOCI 4380 ..... 3	SOCI (Adv) ..... 3
SOCI 4110 ..... 1	Minor/Electives ..... 9
Minor/Electives ..... 6	
13	15

## Social Work

**Program Director:** Vernice M. Monroe

**53 Maes Building, Phone 880-8552**

Social Work, an action-oriented profession, helps people improve their social functioning. Problems of personal and social adjustment are brought to the social worker whose work is devoted to helping individuals, families, groups, organizations and communities face difficulties and find solutions to problems. Social work practice is an art and a science. It is the creative blending of the cognitive, affective, and behavioral abilities of the worker. Lamar University's Social Work Program prepares graduates for generalist social work practice. The program is accredited.

ited by the Council on Social Work Education which entitles the BSW graduate to apply for licensure in Texas as a Licensed Social Worker (LSW). The research/training interests of Lamar's social work faculty are in the areas of family violence, multicultural practice, developmental disabilities, social work education, and social 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 1324, 1314, or 1336 plus a statistics course.
- B. Major - 42 semester hours to include:  
Social Work 2361, 2371, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 4380, 4321, 4324, plus six hours of electives in SOWK 4320.
- C. Departmental Requirements - 21 semester hours  
Sociology 1301, 1306  
Psychology 2301, and 2308 or 2376  
Criminal Justice 1306  
Anthropology- three hours  
Computer Science 1371
- D. Approved Electives: 12 semester hours  
Students, with faculty advisor approval, must select any four courses from the following list:  
Anthropology 2351, 2372, 3310, 4340  
Criminal Justice 3320  
Economics 2302  
Family and Consumer Sciences 1377, 2382, 3300, 3390, 4310, 4327  
Psychology 3320, 4320  
Sociology 3310, 3320, 3380, 3390

### Suggested Program of Study

First Semester		First Year	Second Semester	
ENGL 1301 .....	3	ENGL 1302 or 1374 .....	3	
Math .....	3	BIOL 1471 .....	4	
BIOL 1470 .....	4	PSYC 2301 .....	3	
SOCI 1301 .....	3	COMM 1315 .....	3	
PEGA .....	1-2	PEGA .....	1-2	
		14-15		14-15

Second Year	
First Semester	Second Semester
PHIL 1370 ..... 3	Engl Lit ..... 3
HIST 1301 ..... 3	HIST 1302 ..... 3
Fine Arts ..... 3	PSYC 2308 or 2376 ..... 3
SOCI 1306 ..... 3	POLS 2301 ..... 3
SOWK 2361 ..... 3	SOWK 2371 ..... 3
15	15
Third Year	
First Semester	Second Semester
Engl Lit or For Lang ..... 3	SOWK 3300 ..... 3
POLS 2302 ..... 3	SOWK 3310 ..... 3
CRIJ 1306 ..... 3	SOWK 3340 ..... 3
HLTH 1370 ..... 3	PSYC 2471 or Statistics ..... 3-4
Anth ..... 3	Approved Elective ..... 3
15	15/16
Fourth Year	
First Semester	Second Semester
SOWK 3320 ..... 3	SOWK 3350 ..... 3
SOWK 3330 ..... 3	SOWK 4320 ..... 3
SOWK 4380 ..... 3	SOWK 4320 ..... 3
SOWK 3360 ..... 3	Approved Electives ..... 6
Approved Elective ..... 3	
15	15
Summer Semester I	Summer Semester II
SOWK 4321 ..... 3	SOWK 4324 ..... 3

## Criminal Justice

**Program Director:** James J. Love

**58 Maes Building, Phone 880-8546**

Criminal Justice studies include a broad range of courses and concentrations studying crime, the Criminal Justice System and societal responses to the phenomenon of criminal behavior. Emphasis is placed on preparing the graduate for immediate entry and placement in professional level employment. The Bachelor of Arts is also available and is recommended for students seeking employment in federal law enforcement.

## 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 1324, 1314, or 1336 plus a statistics course.

- B. Criminal Justice Core - 33 semester hours including:
1. 12 semester hours required: CRIJ 1301, CRIJ 1306, CRIJ 3309, and CRIJ 4311.
  2. Criminal Justice Electives (9 semester hours-- any level)
  3. Advanced Criminal Justice Electives (12 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 CJ approved elective.
- F. Minor or Approved Electives - 18 semester hours, six of which must be advanced.
- G. Electives - Sufficient electives to complete the 127 hour degree requirement.

### Suggested Program of Study

First Year	
First Semester	Second Semester
ENGL 1301 ..... 3	ENGL 1302 or 1374 ..... 3
MATH 1314 or higher ..... 3	Statistics ..... 3
CRIJ 1301 ..... 3	Soc Sci ..... 3
PHIL 1370 ..... 3	CRIJ elective ..... 3
CRIJ 1306 ..... 3	CRIJ elective ..... 3
PEGA ..... 2	PEGA ..... 2
<b>17</b>	<b>17</b>

Second Year	
First Semester	Second Semester
Engl Lit ..... 3	Engl Lit or For Lang ..... 3
HIST 1301 ..... 3	HIST 1302 ..... 3
Lab Science ..... 4	Lab Science ..... 4
POLS 2301 ..... 3	POLS 2302 ..... 3
HLTH 1370 ..... 3	COMM 1315 ..... 3
<b>16</b>	<b>16</b>

Third Year	
First Semester	Second Semester
CRIJ elective ..... 3	Soc Sci ..... 3
Fine Arts ..... 3	Criminology ..... 3
CRIJ Adv ..... 3	CRIJ Adv ..... 3
Electives ..... 6	CRIJ 3309 ..... 3
	Elective ..... 3
<b>15</b>	<b>15</b>

Fourth Year	
First Semester	Second Semester
COSC 1371 ..... 3	CRIJ 4311 ..... 3
Methods ..... 3	CRIJ Adv ..... 3
CRIJ Adv ..... 3	CRIJ 4340 ..... 3
Elective ..... 3	Electives ..... 4
Elective Adv ..... 3	Elective Adv ..... 3
15	16

## 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 bulletin 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 1301 ..... 3	ENGL 1302 or 1374 ..... 3
MATH 1314 or Higher ..... 3	Statistics ..... 3
CRIJ 1301 ..... 3	Soc Sci ..... 3
PHIL 1370 ..... 3	CRIJ elective ..... 3
CRIJ 1306 ..... 3	CRIJ elective ..... 3
PEGA ..... 2	PEGA ..... 2
17	17

Second Year	
First Semester	Second Semester
Engl Lit ..... 3	Engl Lit ..... 3
HIST 1301 ..... 3	HIST 1302 ..... 3
Lab Science ..... 4	Lab Science ..... 3
POLS 2301 ..... 3	POLS 2302 ..... 3
HLTH 1370 ..... 3	COMM 1315 ..... 3
16	16

Third Year	
First Semester	Second Semester
For Lang 1311 or 1313 ..... 3	For Lang 1312 or 1314 ..... 3
Fine Arts ..... 3	Criminology ..... 3
Minor ..... 6	CRIJ 3309 ..... 3
CRIJ Adv ..... 3	CRIJ Adv ..... 3
15	15

First Semester	Fourth Year	Second Semester
COSC 1371 ..... 3		For Lang 2312 ..... 3
Methods ..... 3		Minor Adv ..... 3
For Lang 2311 ..... 3		CRIJ 4311 ..... 3
Minor ..... 3		CRIJ Adv ..... 3
Minor Adv ..... 3		CRIJ elective ..... 3
CRIJ Adv ..... 3		
	18	15

## Anthropology

**Faculty Advisor:** Donna Birdwell-Pheasant

**54 Maes Building, Phone 880-8551**

Anthropology is the study of mankind at its most inclusive. The Human experience in all parts of the world and throughout the millennia of human existence serves as the subject matter of anthropology. The discipline maintains an appreciation of humans as biological creatures as well as social beings and bearers of culture. Course offerings encourage a fuller appreciation of human diversity while allowing students to compare our way of life with lifeways in other times and places.

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.

## Sociology Courses (SOCI)

<b>1301 Introduction to Sociology</b>	<b>3:3:0</b>
Sociology as a field of knowledge. Basic terms, concepts, theories of sociology applied to an explanation of human behavior, personality, groups and society.	
<b>1306 Social Problems</b>	<b>3:3:0</b>
Attributes of society and of persons which are subjects to disapproval; the causes, extent and consequences of problems; programs and prospects for their resolution.	
<b>2301 Marriage and the Family</b>	<b>3:3:0</b>
Characteristics of and problems within courtship, marriage and family in American society.	
<b>2375 Class, Status, and Power</b>	<b>3:3:0</b>
Examination of social inequality and differentiation with emphasis on social classes, status groups, and social mobility.	
<b>3306 Race and Ethnic Relations</b>	<b>3:3:0</b>
Racial and ethnic minority groups within the society; causes, distinctions and changes in the relationship between minority and dominant groups.	
<b>3310 Sociology of Gender</b>	<b>3:3:0</b>
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.	
<b>3311 Medical Sociology</b>	<b>3:3:0</b>
A study of medicine as a social institution with emphasis on social organization and interaction patterns.	
<b>3320 Social Psychology</b>	<b>3:3:0</b>
Social and cultural influences upon individual behavior and personality; interpersonal and intergroup relations and collective behavior.	
<b>3330 Urban Sociology</b>	<b>3:3:0</b>
Social and ecological processes in the urbanization movement; characteristics of urban society and culture.	

- 3350 The Family** 3:3:0  
Structural and functional characteristics of the family as a basic institution.
- 3360 Honors Human Nature and the Human Condition** 3:3:0  
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.  
*Prerequisite: Departmental approval.*
- 3370 Sociology of Sport** 3:3:0  
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.
- 3380 Criminology** 3:3:0  
Extent of and explanation for crime in American society; agencies dealing with crime and criminals; programs for control and prevention of crime and delinquency.
- 3390 Juvenile Delinquency** 3:3:0  
The nature, incidence and explanations for juvenile delinquency in American society; agencies and programs for prevention and control of juvenile delinquency.
- 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.  
*Prerequisite: Senior standing in sociology*
- 4300 Seminar in Sociology** 3:3:0  
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.
- 4301 Directed Studies in Sociology** 3:A:0  
Individual study with an instructor in an area of mutual interest. May be repeated for credit when topic varies.
- 4310 Population Problems** 3:3:0  
The growth and composition of population with emphasis on social, economic and political problems.
- 4320 Sociology of Education** 3:3:0  
Multicultural influences on the school system and the democratic society. Included will be an analysis of educational problems in the multicultural society of Texas.
- 4340 Social Change and Movements** 3:3:0  
Nature, sources, and effects of contemporary social changes with emphasis on social movements as causes and consequences of change.
- 4350 Sociology of Religion** 3:3:0  
Religion as a social institution in contemporary America; development of religious systems; cultural, social and individual functions of religion.
- 4380 Research Methods** 3:3:0  
The logic, design, techniques and problems involved in social scientific research.
- 4390 Social Theory** 3:3:0  
Major sociological theorists and theories.

## Social Work Courses (SOWK)

- 2361 Introduction to Social Work** 3:3:0  
An overview of the knowledge, values, skills, and fields of practice for generalist social work practice. A field experience (volunteer component) is required.
- 2371 Survey of the Social Welfare Institution** 3:3:0  
Growth and development of the social welfare institution. Emphasis on the impact of selected pieces of social welfare legislation on society.
- 3300 Human Behavior in the Social Environment I**  
First of two courses presenting theories and research on human behavior in the social environment from an ecological systems perspective. The reciprocal relationship and impact of the family, community, and society on human behavior and development throughout the life cycle will be explored. Focus: birth through adolescence.  
*Corequisite: SOWK 3310 for majors.*

- 3310 Social Work Practice I** 3:3:0  
First in a three course practice sequence. Theories, concepts, values, principles, approaches, and skills generic to generalist social work practice.  
*Prerequisite:* SOWK 2361, 2371.  
*Corequisite:* SOWK 3300
- 3320 Human Behavior in the Social Environment II** 3:3:0  
Continuation of SOWK 3300. Focus: Young adulthood through later adulthood.  
*Prerequisite:* SOWK 3300.  
*Corequisite:* SOWK 3330
- 3330 Social Work Practice II** 3:3:0  
Second practice course focusing on assessment and intervention with individuals, families, and groups using a problem solving process.  
*Prerequisite:* SOWK 3310.  
*Corequisite:* SOWK 3320.
- 3340 Social Welfare Policy and Administration** 3:3:0  
Relationship between social policy, social welfare and the American society. Emphasis on the analysis of the impact of social welfare policy on society and vulnerable populations.
- 3350 Social Work Practice III**  
Generalist perspective for social work practice with focus on (macro) indirect practice: working with organizations and communities. Emphasis on assessment and intervention using an ecogram and on prevention and service delivery.  
*Prerequisite:* SOWK 3330.
- \*3360 Promotion of Social and Economic Justice**  
Knowledge and understanding of how prejudice and discrimination contribute to social oppression and social injustice. The status of minority groups in the U.S. from a socio-historical perspective will be presented. Strategies to combat social inequality will be examined from a micro-macro focus.  
*Corequisite:* SOWK 3320, 3330, 4380.
- 4300 Special Topics in Social Work** 1-3:A:0  
Topics in various areas in social work and social service. May be repeated for credit.  
*Prerequisite:* Consent of instructor.
- 4320 Seminar** 3:3:0  
Current topics in social work practice. May be repeated for credit when topics vary.
- 4321 Field Practicum I**  
Integration of theory and practice through placement in community social service agencies. Course includes a weekly four hour seminar.  
*Prerequisite:* Consent of field placement coordinator and completion of SOWK 2361, 2371, 3300, 3310, 3320, 3330, 3340, 3360, 4380.
- 4324 Field Practicum II**  
Continuation of SOWK 4321.  
*Prerequisite:* SOWK 4321 and consent of field placement coordinator.
- 4380 Social Work Research Methods**  
Introduction to social work research methods; emphasis on utilizing research to evaluate social work practice. Majors only. Non-majors by consent of instructor.  
*Corequisite:* SOWK 3330 for majors.

## 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 Courts and Criminal Procedures** 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.



- 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 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 in America** 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: CRIJ 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 Field Experience** 3:A:0  
Integration of theory into practice through placement in community criminal justice service agencies. Course includes periodic seminar meetings as determined by Internship Director.  
*Prerequisite: Approval of Internship Director.*
- 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.

\* Pending Approval.

## 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.



***Business graduates confidently assume professional and managerial roles in the public and private sector.***

## College of Business

**Departments:** Accounting, Administrative Services, Economics and Finance,  
Management and Marketing

<b>Gary A. Moore, Dean</b>	<b>232 Galloway Business Bldg.</b> <b>Phone 880-8603</b>
<b>Robert A. Swerdlow, Associate Dean</b>	<b>232 Galloway Business Bldg.</b> <b>Phone 880-8604</b>
<b>Joel L. Allen, Director of J.D. Landes Center for Economic Education</b>	<b>204 Galloway Business Bldg.</b> <b>Phone 880-8657</b>
<b>Advising Center</b>	<b>120 Galloway Business Bldg.</b> <b>Phone 880-8607</b>

The College of Business was established by the University 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 the American Assembly of Collegiate Schools of Business.

Four departments—Accounting; Administrative Services; Economics and Finance; 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 also granted in Economics.

The Master of Business Administration degree program also is offered. Details may be found in the Graduate Bulletin.

## Objectives

As a professional school within a university environment, the College of Business has set objectives which complement and expand the educational objectives of Lamar University. The fundamental objective of the College of Business is to educate men and women who can function effectively and responsibly in managerial and/or professional roles in both private and public organizations. To provide this education, the College maintains a highly qualified faculty committed to teaching excellence and keeping abreast of new developments through research and professional involvement.

## Degrees

**The Bachelor of Business Administration** curriculum consists of three distinct phases: non-professional general education, professional specialization, and electives.

The general educational requirements are patterned to develop an understanding the business graduate needs of the manner American industries strive to meet their responsibilities in a changing social and industrial order and knowledge of the social, legal, governmental and economic frameworks within which the American industrial organizations exist and operate.

The professional programs offered reflect the belief that application as well as theory should be the proper concern of the undergraduate student. A common body of fundamental business and economics theory, principles and techniques is presented in the core

pattern of business subjects. These theories and principles are developed along with certain basic quantitative tools of analysis and communication as preparation for the specialized professional courses. The development of understanding of the interaction of all areas and functions of business operations is the objective of the core courses in business and economics required of all business graduates.

The specialized professional preparation of the student 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 which complement and supplement the specialization area.

**The Bachelor of Business Administration** degree will be awarded upon completion of the core curriculum (p. 15) plus

- I. Non-professional education courses:  
 ECON 2302, 2301 Principles of Economics  
 MATH 1325 Elements of Analysis for Business Applications\*  
 Approved non-professional education electives (see each degree program for hours)
- II. Pre-professional courses:  
 ADSV/ECON 1370 Business Environment and Public Policy\*  
 MSCI 1330 - Intro to Microcomputers  
 (3 hour course to be approved by chair of student's major department)\*
- III. Professional core courses:
  - ACCT 2301, 2302 Principles of Accounting
  - BUAL 3310, 3320 Business Analysis I & II
  - BUAL 4360 Management Information Systems
  - BULW 3310 Business Law
  - ECON 3340 Macro Economics or
  - ECON 3890 Economics of the Firm
  - FINC 3310 Principles of Finance
  - MGMT 3310 Principles of Organizational Behavior & Mmg
  - MGMT 3320 Production Management
  - MGMT 4370 Administrative Policy
  - MKTG 3310 Principles of Marketing
  - OFAD 3350 Business Communications
- IV. Professional Specialization (18-27 semester hours):
- V. Approved electives to complete a total of 129 semester hours.
- VI. A minimum grade point average of 2.00 in all business and economics subjects.
- VII. A minimum grade point average of 2.00 on all courses attempted.
- VIII. Application for the degree must be made through the Office of the Chair of the department of the student's major.

*\*Slightly different program of courses required by the Department of Administrative Services for students planning to secure teacher certification as well as by the Department of Economics for economics majors. See Department of Administrative Services and Department of Economics in this bulletin.*

**Accounting Major (28 semester hours)**

ACCT 3470 Sys & Prac Appl  
 ACCT 3310, 3320 Inter Acc  
 ACCT 3330 Spec Acc Topics  
 ACCT 3340 Cost Acc  
 ACCT 3380 Tax Acc  
 ACCT 4300 Intro to Auditing  
 ACCT 4310 Adv Acc  
 ACCT Elective

**Economics Major (24 semester hours)**

ECON 3330 Inter Theory  
 ECON 3320 Money & Banking  
 ECON electives 9 sem. hours  
 ECON 3340 Macro  
 ECON 3390 Economics of the Firm  
 ECON 4315 Gov & Business

**Finance Major (21 semester hours)**

FINC 3320 Financial Analysis  
 FINC 4310 Investments  
 FINC 4320 Financial Markets  
 FINC 4330 Commercial Markets  
 Professional Track Elective  
 Professional Track Elective  
 Professional Track Elective

**General Business Major (18-24 semester hours)****Business Concentration I**

ACCT 3340 Cost Accounting or  
 ACCT 3380 Taxation Accounting  
 FINC 3330 Insurance or  
 FINC 3320 Financial Analysis  
 MGMT 3330 Personnel Management  
 MKTG 4310 Marketing Management  
 MKTG 4380 Small Business Enterprise  
 OFAD 4310 Office Management

**Advertising Communication Concentration II**

ARTS 2331 Visual Design I or  
 ARTS 3333 Visual Design II  
 ARTS 3351 Desktop Design  
 ARTS 4343 Computers in Art I  
 ARTS 4353 Computers in Art II  
 Communications Course  
 MKTG 3330 Marketing Promotion

**Industrial Engineering Concentration III**

INEN 3301 Survey of Industrial Engineering  
 INEN 3330 Engineering Economy  
 INEN 3390 Materials Science and Manufacturing Processes

INEN 4301 Quality Control Applications  
 INEN 4380 Methods Engineering  
 INEN 4316 Industrial and Product Safety

**Retail Merchandising Concentration IV**

FCSC 1320 Textiles  
 FCSC 3306 Product Merchandising  
 FCSC 4320 Fashion History  
 FCSC 4340 Fashion Production and Distribution  
 FCSC 4337 Fashion Buying and Merchandising Techniques

MKTG 3320 Principles of Retailing

**Management Information Systems Major (24 semester hours)**

ACCT 3340 Cost Accounting or  
 MGMT 4310 Budgetary Control  
 MISY 3350  
 MISY 3340 Advanced Microcomputer Applications  
 MISY 3370 Information Systems Modeling Techniques  
 MISY 4370 Management Database Applications  
 MISY 4380 Business Systems Development Project  
 OFAD 3310 Records Management  
 OFAD 3360 Office Information Systems

**Management Major (21 semester hours)**

ACCT 3340 Cost Accounting  
 MKTG 4310 Marketing Management  
 MGMT 3330 Personnel Management  
 MGMT 4310 Budgetary Control  
 MGMT 4320 Organ Behav  
 MGMT 4340 Productivity Management  
 MKTG 4380 Small Business Enterprise

**Marketing Major (21 semester hours)**

MKTG 3320 Principles of Retailing  
 MKTG 3330 Mkt Promotion  
 MKTG 4320 Buyer Behavior  
 MKTG 4310 Marketing Management  
 MKTG 4330 International Mkt  
 MKTG 4360 Marketing Research  
 MKTG 4370 Adv Marketing Problems

**Office Administration Major—Plan I (21 semester hours)**

OFAD 1302 Intermediate Shorthand  
 OFAD 2301 Advanced Typewriting  
 OFAD 3310 Records Management  
 OFAD 3360 Office Information Systems  
 OFAD 3370 Electronic Word Processing Systems  
 OFAD 3380 Secretarial Office Procedures  
 OFAD 4310 Office Management

**Office Administration Major—Plan II (18 semester hours)**

MISCI 3340 Microcomputer Software Applications - Business  
 OFAD 1302 Intermediate Shorthand  
 OFAD 2301 Advanced Typewriting  
 OFAD 3360 Office Information Systems  
 OFAD 3380 Secretarial Office Procedures  
 OFAD 4310 Office Management

**Human Resources Management (Accreditation) (21 semester hours)**

MGMT 3330 Personnel Management  
 MGMT 4320 Organization Behavior  
 MGMT 4340 Productivity  
 PSYC 3360 Psy Tests and Measurements  
 BULW 3320 Employment Law or  
 ECON 3360 Survey of Labor Economics  
 MGMT 4330 Contemporary Issues in Personnel  
 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 in the Department of Economics for the degree (see Department of Economics in this bulletin).
- II. A minimum grade point average of 2.00 in all economics courses.
- III. A minimum grade point average of 2.00 on all courses attempted.
- IV. A minimum of 122 semester hours exclusive of physical education and band.
- V. A minimum of 30 semester hours in the field of economics.
- VI. A minor of 18 semester hours, six of which must be 3000 or 4000 level courses.

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 ADSV/ECON 1300, ECON 2302, 2301, ACCT 2310, 2320, MGMT 3310, MKTG 3310, and FINC 3310. 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.

Students registering for business courses must meet all course prerequisites, including the implicit prerequisite indicated by the course level. Any exception must be approved by the head of the department offering the course.

## Prerequisite Policy-College of Business

All courses above 1000 level in the College of Business have an implied prerequisite based on the level of the course in addition to other specified prerequisites in the course description.

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.

† Also available to juniors with approval of the department chair of the offering department.

## Department of Accounting

**Department Chair:** R. W. Jones

**235 Galloway Business Building**  
**Phone 880-8610**

**Emeritus Professor:** Bennett

**Professors:** Jones, Veuleman

**Barlow Professor:** Lewis

**Associate Professor:** Lynch

**Assistant Professor:** Varick

**Adjunct Instructor:** Fontenot

### Objectives

The principal objective of the accounting 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 2302 (a minimum grade of "B" is required in both ACCT 2301 and ACCT 2302). 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. Also, if a student with a GPA below 2.0 in any area wishes to apply for graduation, that student must be enrolled in sufficient courses to ensure that the maximum deficiency that could be removed is twice the actual deficiency the student has. 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 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

PHIL 1370 .....	3
Eng Comp .....	3
ADSV 1370 Bus Env & Pub Policy .....	3
MATH 2376 or 1341 .....	3
ECON 2302 .....	3
PEGA .....	2

#### Second Semester

MISY 1330 Intro to Microcomputers .....	3
ENGL 1302, 1374 or Comp .....	3
Amer His .....	3
HLTH 1370 .....	3
ECON 2301 .....	3
PEGA .....	2

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### Sophomore Year

#### First Semester

Soph Lit .....	3
Am His .....	3
POLS 2301 .....	3
ACCT 2301 Intro to Fin Acct .....	3
Lab Science .....	4

#### Second Semester

Eng Lit or For Lang .....	3
Lab Science .....	4
POLS 2302 .....	3
ACCT 3470 Sys & Practice Appl .....	4
COMM 3310 .....	3

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### Junior Year

#### First Semester

ACCT 3380 Tax I .....	3
OFAD 3350 Bus Com .....	3
MGMT 3310 Prin of Org Bhav & Mgt .....	3
BUAL 3310 Bus Analysis I .....	3
ACCT 3340 Cost .....	3
ACCT 3310 Intermediate I .....	3

#### Second Semester

ECON 3340 or 3390 .....	3
FINC 3310 Prin of Fin .....	3
MGMT 3320 Production .....	3
BUAL 3320 Bus Analysis II .....	3
MISY 4360 Mgt Info Sys .....	3
ACCT 3320 Intermediate II .....	3

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### Senior Year

#### First Semester

ACCT 3330 Spec Acc Topics .....	3
BULW 3310 Business Law .....	3
MKTG 3310 Prin of Mkt .....	3
Fine Arts .....	3

#### Second Semester

ACCT 4300 Intro to Auditing .....	3
ACCT 4310 Advanced .....	3
MGMT 4370 Adm Policy .....	3
Acc Elec (3000/4000 Level) .....	3

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## 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 and present value concepts.  
*Prerequisite: ACCT 2301 with a minimum grade of "B" and ACCT 4370 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, revenue recognition, income tax accounting and earnings per share.  
*Prerequisite: ACCT 3310 with a minimum grade of "C".*
- 3330 Specialized Accounting Topics** 3:3:0  
Primary emphasis on governmental accounting and accounting for non-profit organizations. Also includes financial accounting topics--Statement of Cash Flows, foreign currency transactions, and introduction to SEC practices.  
*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; zero bracket amounts; and credits.  
*Prerequisite: ACCT 2302 or ACCT 3470 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 2302 or ACCT 3470 with minimum grade of "C"; strongly recommended that ACCT 3380 be completed.*
- 3470 Systems & Practice Applications**  
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.
- 4171 Special Problems**  
This course is intended for the examination of new or special accounting problems under direction of a faculty member. A participant may repeat the course when the topic differs significantly from previous enrollment.  
*Prerequisite: Senior standing and approval of the department chair.*
- 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. A participant may repeat the course when the topic differs significantly from previous enrollment.  
*Prerequisites: Senior standing and approval of the department chair.*

## Department of Administrative Services

**Department Chair: Don Jordan**

**237 Galloway Business Building**

**Emeritus Professors: Hall, Kirksey**

**880-8635**

**Professors: Barnes, Cavaliere, Spradley, M. Swerdlow, Drapeau, Jordan**

**Associate Professors: Mulvaney, Pearson**

**Assistant Professors: Kaye**

The Department of Administrative Services offers degrees in General Business, Management Information Systems, and Office Administration. 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 general business curriculum enables a student to receive an education in the fundamentals of business and at the same time diversify into a secondary field of concentration. Four of the fields of concentration available to a student are outside the College of Business. The fields of concentration include: Business Concentration, Advertising Communication Concentration, Industrial Engineering Concentration and Retail Merchandising Concentration.

**Pre-Law:** Students seeking admission to law school need a baccalaureate degree, a high grade-point average, and a good score on the Law School Aptitude Test (LSAT). As prospective candidates for admission to a school of law, students may pursue one of the bachelor's degrees offered by the department. These students should work closely with a pre-law advisor in selecting their electives and in making application to law schools. Their degree plan should include as many of the following electives as possible:

BULW 3320- Employment Law

BULW 3330- Environmental Law or

BULW 4380- Real Estate Law

BULW 4340- Advanced Legal Principles

CRIJ 1301- Introduction to Criminal Law and Procedure

CRIJ 4300- Legal Research, Brief Writing and Oral Advocacy

POLS 3313- Judicial Process or

POLS 4370 - American Constitutional Law & Development

**PHIL 2303 - Logic**

Advanced coursework in composition, communication, and the law complements the student's business education. After completion of the program, students may apply directly to law schools of their choice.

## **Management Information Systems**

Management Information Systems is the study of the direction and control of computerized or electronic information resources in organizations. The program is broadly designed to acquaint students with the techniques, concepts and terminology of managing information resources.

The management information systems program prepares individuals for such career paths or options as system analyst and designer, information systems manager, data administrator, information systems consultant and computer auditor.

### **Admission to the MIS Program:**

The following requirements are effective for all students entering or transferring into the MIS program beginning Fall 1998: 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 4370 or MISY 4380. All MIS majors who make a grade of "D" in any MIS course must repeat the course, earning a grade of "C" or higher, to complete successfully the degree requirements.

## **Office Administration**

For the Bachelor of Business Administration degree in Office Administration, the general and specific requirements of the four-year curricula furnish a broad preparation and a highly specialized proficiency for the professional secretarial field, including word processing.

A major in Office Administration may be combined with courses in education. This plan will qualify a graduate for a teacher's certificate.

### **Minor in Office Administration**

Students interested in Office Administration as a minor should take 18 hours of Office Administration courses including OFAD 1302 and OFAD 2301. Six of the 18 hours must be upper level (3000 or 4000) courses. In keeping with the spirit of a Minor, the students must have less than 25 percent of their total curriculum in Business subjects.

Students should consider the many advantages of Office Administration. This field can be particularly rewarding because of its unlimited promotional opportunities, especially in the area of office management. Many successful persons in positions of leadership began their business careers as secretaries, business education teachers, or assistants to office managers.

**Suggested Programs of Study****Bachelor of Business Administration****General Business Major – Business Concentration – Plan I****First Year**

ADSV 1370 Business Environment and Public Policy .....	3
MISY 1330 Intro to Microcomputers .....	3
ECON 2301, 2302 .....	6
Eng Comp .....	6
MATH 1325 Elements of Analysis For Business Applications .....	3
Lab Sci .....	8
PHIL 1370 .....	3
PEGA .....	4

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**Second Year**

ACCT 2301, 2302 Principles .....	6
Eng Lit .....	6
POLS 2301, 2302 .....	6
Am His .....	6
Fine Arts .....	3
COMM 3310 Business and Professional Speech .....	3
HLTH 1370 .....	3

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**Third Year**

BUAL 3310, 3320 Business Analysis .....	6
BULW 3310 Business Law .....	3
FINC 3310 Prin of Finance .....	3
MGMT 3310 Prin of Org Behav & Mgt .....	3
MGMT 3320 Production Management .....	3
MKTG 3310 Prin of Marketing .....	3
OFAD 3350 Business Comm .....	3
Electives (non-business) .....	3
Electives (College of Business 3000 or 4000 level) .....	6

33

**Fourth Year**

ACCT 3340 Cost Accounting or ACCT 3380 Tax Acc .....	3
MISY 4360 Mgt Information Systems .....	3
ECON 3340 Macro Eco or ECON 3390 Eco of the Firm .....	3
FINC 3330 Insurance or FINC 3320 Fin Analysis .....	3
MGMT 3330 Personnel Management .....	3
MKTG 4310 Marketing Management .....	3
MKTG 4380 Small Business Ent .....	3
OFAD 4310 Office Management .....	3
Electives (College of Business 3000 or 4000 Level) .....	3
MGMT 4370 Admin. Policy .....	3

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**Advertising Communication Concentration – Plan II****First Year**

ADSV 1370 Business Environment and Public Policy .....	3
MISY 1330 - Intro to Microcomputers .....	3
ECON 2301, 2302 Principles .....	6
Eng Comp .....	6
MATH 1325 Elements of Analysis for Business Applications .....	3
Lab Sci .....	8
PHIL 1370 Phil of Knowledge .....	3
PEGA .....	4

36

**Second Year**

ACCT 2301, 2302 Principles .....	6
Eng Lit .....	6
Pols 2301, 2302 .....	6
Am His .....	6
Fine Arts .....	3
COMM 1315 Intro to Media Arts .....	3
HLTH 1370 .....	3

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**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 Comm .....	3
Electives (College of Business 3000 or 4000 level) .....	6
COMM 3310 Bus and Prof Speech .....	3

33

**Fourth Year**

ARTS 3343 Computers in Art I .....	3
Art 3353 Computers in Art II .....	3
MISY 4360 Management Info Systems .....	3
Communications (3000-4000 level) .....	3
ECON 3340 Macro Economics or ECON 3390 Economics of the Firm .....	3
MGMT 4370 Administrative Policy .....	3
MKTG 3330 Marketing Promotion .....	3
Elective (non-business) .....	3
Electives (College of Business 3000 or 4000 level) .....	3

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**Industrial Engineering Concentration - Plan III****First Year**

ADSV 1370 Business Environment and Public Policy .....	3
MISY 1330 - Intro to Microcomputers .....	3
ECON 2301, 2302 .....	6
Eng Comp .....	6
MATH 1325 Elements of Analysis for Business Applications .....	3
Lab Sci .....	8
PHIL 1370 Phil of Knowledge .....	3
PEGA .....	4

36

**Second Year**

ACCT 2301, 2302 Principles .....	6
Eng Lit .....	6
POLS 2301, 2302 .....	6
American History .....	6
Fine Arts .....	3
COMM 3310 Bus & Prof Speech .....	3
HLTH 1370 .....	3

33

**Third Year**

BUAL 3310, 3320 Business Analysis .....	6
BULW 3310 Bus Law .....	3
FINC 3310 Prin of Finance .....	3
INEN 3301 Survey of Industrial Engineering ..	3
MGMT 3310 Prin of Org Behav & Mgt .....	3
MKTG 3310 Prin of Marketing .....	3
OFAD 3350 Business Communications .....	3
Elective (non-business) .....	3
Electives (College of Business 3000 or 4000 Level) .....	6

33

**Fourth Year**

MISY 4360 Management Information Sys .....	3
ECON 3340 Macro Eco or ECON 3390 Eco of the Firm .....	3
INEN 3330 Engineering Economy .....	3
INEN 3390 Materials Science and Manufacturing Process .....	3
INEN 4301 Quality Control .....	3
INEN 4380 Methods Engineering .....	3
MGMT 3320 Production Management .....	3
MGMT 4370 Administrative Policy .....	3
Electives (College of Business 3000 or 4000 Level) .....	3

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**Retail Merchandising Concentration – Plan IV****First Year**

ADSV 1300 Business Environment and Public Policy .....	3
MISY 1330 Intro to Microcomputers .....	6
ECON 2301, 2302 Principles .....	6
Eng Comp .....	6
MATH 1325 Elements of Analysis for Business Applications .....	3
Lab Sci .....	8
PHIL 1370 Phil of Knowledge .....	3
PEGA .....	4

36

**Second Year**

ACCT 2301, 2302 Principles .....	6
Eng Lit .....	6
POLS 2301, 2302 .....	6
Am History .....	6
Fine Arts .....	3
COMM 3310 Bus and Prof Speech .....	3
HLTH 1370 .....	3

33

**Third Year**

BUAL 3310, 3320 Bus Analysis .....	6
BULW 3310 Bus Law .....	3
FINC 3310 Prin of Finance .....	3
FCSC 1320 Textiles .....	3
FCSC 3306 Product Merchandising .....	3
MGMT 3310 Prin of Org Bhav & Mgt .....	3
MKTG 3310 Prin of Marketing .....	3
OFAD 3350 Bus Com .....	3
Electives (College of Business 3000 or 4000 Level) .....	6

33

**Fourth Year**

MISY 4360 Mgt Info Systems .....	3
ECON 3340 Macro Eco or ECON 3390 Eco of the Firm .....	3
FCSC 4320 Fash His .....	3
FCSC 4340 Fashion Prod and Dist .....	3
FCSC 4337 Fash Buying and Merchandising Tech .....	3
MGMT 3320 Prod Management .....	3
MGMT 4370 Admin Pol .....	3
MKTG 3320 Retailing .....	3
Elective (non-business) .....	3
Electives (College of Business 3000 or 4000 Level) .....	3

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**Bachelor of Business Administration  
Management Information Systems Major****Suggested Program of Study****First Year**

ADSV 1370 Business Environment & Public Policy .....	3
MISY 1330 Intro to Microcomputers .....	3
ECON 2301, 2302 Principles .....	6
Eng Comp .....	6
MATH 1325 Elements of Analysis for Business Applications .....	3
Lab Sci .....	8
PHIL 1370 Phil of Knowledge .....	3
PEGA .....	4

36

**Second Year**

ACCT 2301, 2302 Principles .....	6
Eng Lit .....	6
Fine Arts .....	3
HLTH 1370 .....	3
POLS 2301, 2302 .....	6
Amer His .....	6
Elective (non-business) .....	3

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**Third Year**

BUAL 3310, 3320 Business Analysis	6
MISY 3340 Telecomm and Netwk Oper	3
MISY 3370 Info Systems Modeling Techniques	3
BULW 3310 Business Law	3
FINC 3310 Prin of Finance	3
MGMT 3310 Prin of Org Bhav & Mgt	3
MKTG 3310 Prin of Mkt	3
OFAD 3310 Records Mgt	3
OFAD 3350 Business Communications	3
MISY 3350 Bus Systems Develop	3

**Fourth Year**

ACCT 340 Cost Acct or	
MGMT 4310 Budgetary Control	3
MISY 4360 Management Info Sys	3
MISY 4370 Management Database Applications for Business	3
MISY 4380 Bus Sys Devel Project	3
ECON 334 Macro Eco or	
ECON 3390 Eco of the Firm	3
MGMT 3320 Production Mgt	3
MGMT 4370 Admin. Policy	3
COMM 3310 Bus and Prof Speech	3
OFAD 3360 Office Info Systems	3
Elective (College of Business 3000-4000 level)	3

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\*\*\*\*\* The following requirements are effective for all students entering or transferring into the MIS program beginning Fall 1998: 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 4370 or MISY 4380. All MIS majors who make a grade of "D" in any MIS course must repeat the course, earning a grade of "C" or higher, to complete successfully the degree requirements.

## Bachelor of Business Administration

### Office Administration Major

#### Suggested Programs of Study

**Plan I** This program is designed for those students seeking professional careers in secretarial and office administration.

**First Year**

ADSV 1300 Bus Environment & Public Policy	3
ECON 2301, 2302 Principles	6
Eng Comp	6
Lab Sci	8
MATH 1325 Elements of Analysis For Business Applications	3
OFAD 2301 Advanced Typewriting	3
PHIL 1370 Phil of Knowledge	3
PEGA	4

**Second Year**

ACCT 2301, 2302 Principles	6
MISY 1330 Intro to Microcomputers	3
Eng Lit	6
POLS 2301, 2302	6
Amer History	6
COMM 3310 Bus and Prof Speech	3
HLTH 1370	3

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33

**Third Year**

BUAL 3310, 3320 Bus Analysis	6
BULW 331 Bus Law	3
FINC 3310 Prin of Finance	3
MGMT 3310 Prin of Org Beh & Mgt	3
MGMT 3320 Prod Management	3
MKTG 3310 Prin of Marketing	3
OFAD 1302 Inter Shorthand	3

**Fourth Year**

MISY 4360 Mgt Info Systems	3
ECON 3340 Macro Economics or ECON 3390 Economics of the Firm	3
MGMT 4370 Admin Policy	3
OFAD 3350 Bus Comm	3
OFAD 3360 Office Info Systems	3
OFAD 3370 Electronic Word Process Sys	3



OFAD 3310 Records Management .....	3	OFAD 3380 Secretarial Office Procedures .....	3
Elective (non-business) .....	3	OFAD 4310 Office Management .....	3
		Fine Arts .....	3
		Electives (College of Business 3000 or 4000 Level) .....	6
	30		33

**Plan II** This program is designed for those who wish to qualify for a provisional teacher's certificate secondary with a teaching field in business education. For details concerning requirements for teacher certification and information on professional education courses, consult the College of Education section in this bulletin.

### First Year

MISY 1330 - Intro to Microcomputers .....	3
ECON 2301, 2302 Prin .....	6
Eng Comp .....	6
Lab Science .....	8
MATH 1325 Elements of Analysis for Bus Appl .....	3
OFAD 2301 Advanced Typewriting .....	3
PEGA .....	4
PHIL 1370 .....	3

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### Second Year

ACCT 2301, 2302 Prin .....	6
Eng Lit .....	6
Fine Arts .....	3
HLTH 1370 .....	3
Am His .....	6
POLS 2301, 2302 .....	6
OFAD 1302 Int Shorthand .....	3

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### Third Year

MISY 3340 Adv Microcomputer Applications .....	3
BUAL 3310 Bus Analysis I .....	3
BULW 3310 Bus Law .....	3
FINC 3310 Prin of Finance .....	3
MGMT 3310 Prin of Org Beh & Mgt .....	3
MKTG 3310 Prin of Marketing .....	3
COMM 3310 Bus and Prof Speech .....	3
OFAD 3380 Secretarial Office Procedures .....	3
PEDG 3310 Intro Am Ed .....	3
PEDG 3320 Human Learning .....	3
PEDG 3380 Sec Curriculum & Methodology ...	3
Elective (restricted non-business) .....	3

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### Fourth Year

MISY 4360 Mgt Info Systems .....	3
MGMT 3320 Prod Management .....	3
MGMT 4370 Admin Policy .....	3
OFAD 3350 Bus Comm .....	3
OFAD 336 Office Info Systems .....	3
OFAD 431 Office Management .....	3
PEDG 3326 Reading Strategies .....	3
PEDG 4380 Methodology & Class Mgmt .....	3
PEDG 4620 Student Teaching .....	6

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For complete information on teacher certification requirements, please see College of Education and Human Development.

## Administrative Services Courses (ADSV)

### 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. (CC No. 1301)

## 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:A: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.*

## Business Law Courses (BULW)

- 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 businessperson 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.  
*Prerequisite: BULW 3310.*
- 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 trusts, 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:A: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.*

## Management Information Systems Courses (MISY)

- 1373 Introduction to Microcomputers for Business Applications** 3:3:0  
 Role of microcomputers in a business environment. Computer literacy concepts, Windows, applications of word processing and spreadsheets in business communications and problem solving. Introduction to concepts and applications of databases and database management. MISY 1330 is only open to Business majors or students who have successfully completed COSC 1311 or its equivalent in transfer.
- 3340 Telecomm & Network Operations** 3:3:0  
 Advanced features of Windows; physical assembly of hardware; installing software; telecommunications fundamentals; network operating systems; types of networks; network hardware components; the Internet and World Wide Web; network business applications such as e-mail, resource sharing and workgroup development; administration networks.  
*Prerequisite: MIYS 1373.*
- 3350 Business Systems Development** 3:3:0  
 The implementation of graphical, object-oriented software packages to build a business system with the assembly of various hardware and software components. Workgroups use a Local Area Network with shared resources including the most current business system development tools such as Access, dBASE for Windows, Visual BASIC, PowerBuilder and TOOLBOOK. The application and use of the Internet as an information system provider is stressed. Using graphical tools, students will develop business systems and will present these projects to the class.
- 3370 Information Systems Modeling Techniques** 3:3:0  
 Consideration of more advanced information needs in a business organization. Routine maintenance as well as upgrading of files and programs using a microcomputer-based procedural language. Introduction of CASE tools and prototyping as system modeling techniques in the development of a conceptual framework for a Management Information System.
- 4340 Multimedia Applications** 3:3:0  
 This course covers the use of personal computers to develop multimedia applications. The use of various hardware and software components in the production of multimedia systems is stressed. Working in a workgroup using a Local Area Network with shared resources is emphasized. The most current hardware and software tools for processing text, graphics, sound, video and animation are made available to the student. Class projects require hands-on use of authoring and applications packages. Students develop and present an interactive multimedia system project.
- 4360 Management Information Systems** 3:3:0  
 An 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: MGMT 3310.*
- 4370 Management Database Applications for Business** 3:3:0  
 The application, logical sequence, and implementation of databases to aid in managerial decision making. Definition of data; survey of information needs in business organizations; concepts of management databases; integration of needs of functional departments through database applications for report generation.  
*Prerequisite: MISY 4360*
- 4380 Business Systems Development Project** 3:3:0  
 Analysis, design, implementation and presentation of a real-world system. Hardware and software considerations, user interface, test files, presentation techniques. Application of CASE tools, data flow diagrams and other system development and presentation techniques.  
*Co-requisites: MISY 3370 and MISY 4370.*
- 4390 Special Topics in Management Information Systems** 3:A: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)

- 1312 Intermediate Typewriting** 3:2:2  
Emphasis on speed and accuracy development and the transfer of typewriting skills to office production problems. Includes business letter styles, manuscript formats, and tabulation applications.  
*Prerequisite: Beginning typewriting or equivalent.*
- 1311 Keyboarding (Beginning Typewriting)** 3:2:2  
Introduction to touch system of keyboarding. Development of keyboarding techniques as a foundation for skill development and transfer to electronic keyboarding equipment, computer terminals, text editing equipment, etc. Simple letter forms and manuscripts for students' personal use.
- 1301 Beginning Shorthand/Notehand** 3:2:2  
Introduction of symbolic or alphabetic writing system. Reading; writing; theory principles; vocabulary and spelling review.
- 1302 Transcription** 3:2:2  
Emphasis on skills needed for transcription of dictated material. Advanced transcription techniques.  
*Prerequisite: OFAD 1301 or dictation speed of 80 wpm.*
- 2301 Advanced Typewriting** 3:2:2  
Application of acquired typewriting skills and knowledge to planning, organizing, and typewriting a variety of production problems with professional speed and efficiency. Includes business forms, statistical tables, financial statements, legal documents, reports, and correspondence. (CC No. 2302)  
*Prerequisite: OFAD 1302*
- 3310 Records Management** 3:3:0  
The systematic approach to the management of business records for executive problem-solving and decision-making activities. Record cycle from creation to disposition; forms management; correspondence and reports control; auditing record programs; automated systems.
- 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.*
- 3360 Office Information Systems** 3:3:0  
An examination of office information and decision support systems. Information processing systems; analysis and management of support activities; electronic storage systems; reprographics; communications distribution; person/machine interfaces; appraisal of current and future technological trends.
- 3370 Word Processing Software Applications** 3:3:0  
An advanced word processing course using state-of-the-art microcomputer software, formatting, editing, revising, merging, desk-top publishing, file/hard-disk management, graphics.
- 3380 Secretarial Office Procedures** 3:3:0  
Capstone office administration course. Analysis of responsibilities and duties of the administrative secretary. Procedures; work simplification; supervision; office etiquette and ethics; sources of information.
- 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.
- 4340 Women in Business** 3:3:0  
A reading-discussion course concerned with the issues the businesswoman of today encounters. Students survey the literature and discuss available opportunities for women as well as existing problems of the woman in business.
- 4390 Special Topics in Office Administration** 3:A:0  
Intensive investigation of topics in office administration. 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:** Charles F. Hawkins

**240 Galloway Business Building**

**Phone 880-8647**

**Professors:** C. Allen, Brust, Choi, Hawkins, Montano, Moss, Parigi, Price

**Assistant Professor:** J. Allen

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 non-profit 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 section in this bulletin.

## J.D. Landes Center for Economic Education

**Director:** Joel L. Allen

The Center for Economic Education, established in January 1976, offers programs in economic education for elementary, secondary and college teachers, and business, professional and civic groups. The purpose of the Center is to institute, develop and promote programs which will increase economic understanding in cooperation with teacher education, other university or community programs.

Center services include: community and consultant services for workshops, institutes, conferences; materials and teaching aids development, curriculum design and integration; economics courses for prospective and in-service teachers, university students and other interested adults, area business, professional and civic groups.

The Lamar University Center for Economic Education is a division of the Department of Economics, College of Business and is affiliated with the Joint Council and the Texas Council on Economics Education.

## Suggested Programs of Study

Degrees will be awarded upon successful completion of the general education requirements described earlier in this catalog and the following departmental requirements.

### Bachelor of Business Administration – Economics Major

First Year	Second Year
ECON 2302, 2301 Principles ..... 6	ACCT 2301, 2302 Principles ..... 6
Eng Comp ..... 6	Eng Lit ..... 6
MATH 1324 & 1325 MATH for Bus Analy & Appl Mth 2376 & 2377 Calculus I & II ..... 6	POLS 2301, 2302 ..... 6
Lab Science ..... 8	Am His ..... 6
MISY 1330 - Intro to Microcomputers ..... 3	HLTH 1370 Health & Wellness ..... 3
PHIL 1370 Phil of Knowledge ..... 3	COMM 1310 ..... 3
PEGA ..... 2	Fine Arts ..... 3
34	33
Third Year	Fourth Year
OFAD 3350 Bus Comm ..... 3	ECON 3320 Money and Banking ..... 3
FINC 3310 Prin of Finance ..... 3	ECON 4315 Gov and Bus ..... 3
MKTG 3310 Prin of Marketing ..... 3	MGMT 3310 Prin of Org Beh & Mgt ..... 3
BUAL 3310, 3320 Bus Analysis ..... 6	MGMT 3320 Prod Management ..... 3
ECON 3330 Inter Theory ..... 3	MGMT 4370 Administrative Policy ..... 3
ECON 3340 Macro Economics ..... 3	BULW 3310 Bus Law ..... 3
ECON 3390 Eco of the Firm ..... 3	MISY 4360 Mgt Info Sys ..... 3
*Electives ..... 9	*Electives ..... 9
33	30

\*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
Eng Comp ..... 6	Eng Lit ..... 6
MATH 1324 & 1325 Math for Bus Analy & Appl MATH 2376 & 2377 Calculus I & II ..... 6	Am His ..... 6
Lab Sci ..... 8	POLS 2301, 2302 ..... 6
PEGA ..... 2	Electives ..... 3
PHIL 1370 Philosophy of Knowledge ..... 3	HLTH 1370 ..... 3
MISY 1330 - Intro to Microcomputers ..... 3	Fine Arts ..... 3
34	30

**Third Year**

MISY 3340 Micro Software for Business .....	3
ECON 3330 Inter Theory .....	3
ECON 3340 Macro Eco .....	3
BUAL 3310, 3320 Bus Analy .....	6
COMM 3310 Bus and Pro Speech .....	3
Minor Courses .....	6
Advanced Electives (3000 or 4000 Level) .....	7

30

**Fourth Year**

ECON Courses (Advanced Level) .....	18
Minor Courses (Advanced Level) .....	12

30

## Bachelor of Business Administration – Finance Major

**First Year****First Semester**

ACCT/ADSV/ECON/MGMT 1370 Bus Environ and Public Policy .....	3
Eng Comp .....	3
ECON 1310 Principles .....	3
MATH 1324 Math for Bus or MATH 2376 Calculus I .....	3
Lab Sci .....	4
PHIL 1370 Phil of Knowledge .....	3
PEGA .....	2

20-21

**Second Semester**

Eng Comp .....	3
ECON 2301 Principles .....	3
MISY 1330 Intro to Microcomputers .....	3
MATH 1325 Ele of Anal for Bus or MATH 2377 Calculus II .....	3
Lab Sci .....	4
PEGA .....	2

18

**Second Year****First Semester**

Eng Lit .....	3
American History .....	3
ACCT 2301 Principles .....	3
POLS 2301 .....	3
Fine Arts .....	3
HLTH 1370 .....	3

18

**Second Semester**

COMM 1315 or 3310 .....	3
Eng Lit .....	3
American History .....	3
ACCT 2302 or 3470 .....	3
POLS 2302 .....	3

15

Professional electives will be selected with the approval of the department chair.

**Third Year****First Semester**

BUAL 3310 Bus Analysis I .....	3
BULW 3310 Bus Law .....	3
FINC 3310 Prin of Finance .....	3
MKTG 3310 Prin of Marketing .....	3
OFAD 3350 Bus Comm .....	3

15

**Second Semester**

BUAL 3320 Bus Analysis II .....	3
FINC 3320 Finc Analysis .....	3
FINC 4310 Investments .....	3
MGMT 3310 Prin of Org Beh & Mgt .....	3
*Professional track elective .....	3

15

## Fourth Year

## First Semester

## Second Semester

ECON 3340 Macro Econ .....	3	MISY 4360 Mgmt Information Systems .....	3
FINC 4320 Fin Markets and Institutions .....	3	FINC 4330 Commercial Banking .....	3
MGMT 3320 Prod Management .....	3	MGMT 4370 Admin Policy .....	3
*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

\*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)

<b>1301 Principles and Policies</b>	<b>3:3:0</b>
Comprehensive introduction to economic principles and problems for non-business students. Resource utilization; price determination; distribution of income; fiscal and monetary problems; economic growth.	
<b>2301 Principles (Macro)</b>	<b>3:3:0</b>
Emphasizes monetary theory; national income analysis; fluctuation and growth; public finance; international trade; and current economic problems.	
<b>2302 Principles (Micro)</b>	<b>3:3:0</b>
Introduction to economic principles; allocation of resources; determination of output and prices; distribution; and managerial economics.	
<b>3306 Survey of Labor Economics</b>	<b>3:3:0</b>
Past development and present organizational structure of the labor movement in America and its impact on the industrial society. Labor markets; collective bargaining; wages; economic insecurity; labor legislation; governmental policies.	
<i>Prerequisite: Three hours of Economics or approval of the instructor.</i>	
<b>3310 Economics of Entrepreneurship</b>	<b>3:3:0</b>
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.	
<i>Prerequisite: Six hours of Economics.</i>	
<b>3320 Money and Banking</b>	<b>3:3:0</b>
Functions and policies of the American monetary and banking system. Commercial banking; Federal Reserve System; monetary theories and policies; economic stabilization and growth.	
<i>Prerequisite: Six hours of Economics.</i>	
<b>3330 Intermediate Theory</b>	<b>3:3:0</b>
Economic analysis and methodology. Distribution theory; price theory; pure and imperfect competition.	
<i>Prerequisite: ECON 2302.</i>	
<b>3340 Macro Economics</b>	<b>3:3:0</b>
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.	
<i>Prerequisite: ECON 2301.</i>	
<b>3350 International Trade</b>	<b>3:3:0</b>
Theories, practices and problems involved in international commerce between nations. Bases of trade; tariffs; exchange controls; international monetary policies; current problems.	
<i>Prerequisite: Six hours of Economics.</i>	
<b>3370 Public Finance</b>	<b>3:3:0</b>
Study of the constitutional, administrative and economic aspects of governmental fiscal activities; government debt; intergovernmental fiscal relations; federal, state and local taxes.	
<i>Prerequisite: Six hours of Economics.</i>	



- 3390 Economics of the Firm** 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:A: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.
- 4315 Government and Business** 3:3:0  
Promotion, regulation and restriction of business enterprises by government. Regulatory agencies; anti-trust laws; consumerism; transportation; industrial organization and concentration and the eco-legal environment.
- 4330 History of Economic Thought** 3:3:0  
Historical development of economic thought from primitive periods to the present. Classical; historical; socialist; neoclassical; institutional thought.
- 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.*
- 4350 Comparative Economic Systems** 3:3:0  
A critical analysis of the basic theories and institutions of economic systems including a comparison of the American system with other existing systems. Capitalism; socialism; communism.  
*Prerequisite: Three hours of Economics.*
- 4380 Economics of World Resources** 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 Financial Analysis** 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 submarkets; 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 Management and Marketing

**Department Chair:** Lynn Godkin

**Professors:** Godkin, R. Swerdlow

**Associate Professors:** Bandyopadhyay, Lee, Sen

**Assistant Professor:** Mayer

**236 Galloway Business Building**

**Phone 880-8622**

### Degree Programs

#### Management

Management involves the coordination of resources—both human resources (people) and non-human resources (machine, materials, etc.)—so as 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. During students' senior years advising is done by the Department chair. This procedure provides continuity and safeguards so that progress towards the degree is being made.

## Non-Professional Core Program

The Non-Professional Core Program consists of the courses in which a business major enrolls during the Freshman and Sophomore years of study. Students should satisfactorily complete all of the Non-Professional Core courses (except non-business electives) before advancing to Junior (3000 level) courses. This will ensure completion of Junior level course prerequisites.

### Suggested Program of Study

First Year		Second Semester	
First Semester			
Eng Comp .....	3	Eng Comp .....	3
PEGA .....	2	PEGA .....	2
Lab Sci .....	4	Lab Sci .....	4
PHIL 1370 .....	3	MISY 1330 - Intro to Microcomputers .....	3
ADSV 1300 .....	3	HLTH 1370 .....	3
ECON 2302 .....	3	ECON 2301 .....	3
	18		18
Second Year		Second Semester	
First Semester			
Eng Lit .....	3	Eng Lit/Language** .....	3
POLS 2301 .....	3	POLS 2302 .....	3
MATH 1324, 1314 .....	3	MATH 1325 .....	3
Am His .....	3	Am His .....	3
COMM 1310 or 3310* .....	3	Fine Arts .....	3
ACCT 2301 Prin .....	3	ACCT 2302 Prin .....	3
	18		18

\* Human Resources Management majors must take PSYC 2301.

\*\*Could be satisfied with one-year high school language, student could then use the 3 hours as an elective.

**Suggested Programs of Study****Bachelor of Business Administration  
Human Resources Management (Accreditation)****(See Core Program for First and Second Year)**

<b>First Semester</b>		<b>Third Year</b>		<b>Second Semester</b>	
OFAD 3350 Bus Comm .....	3			BULW 3310 Bus Law .....	3
BUAL 3310 Bus Anals .....	3			BUAL 3320 Bus Anals .....	3
FINC 3310 Prin of Fin .....	3			MGMT 3320 Production .....	3
MGMT 3310 Prin of Organ Bhav & Mgmt .....	3			MGMT 3330 HR Mgt .....	3
MKTG 3310 Prin of Mkt .....	3			COMM 3340 .....	3
		15			

<b>Third Semester</b>		<b>Fourth Year</b>		<b>Fourth Semester</b>	
MISY 4360 Mgt Information Systems .....	3			OFAD 4310 Office Management .....	3
MGMT 4320 Adv Org Behavior .....	3			MGMT 4330 Issues in HR .....	3
PSYC 3360 Tests & Measurements .....	3			MGMT 4370 Adm Policy .....	3
ECON 3340/3390 .....	3			MGMT 4340 Qual & Prod .....	3
		12		BULW 3320/ECON 3360 .....	3

**Bachelor of Business Administration  
Management Major****(See Core Program for First and Second Year)**

<b>First Semester</b>		<b>Third Year</b>		<b>Second Semester</b>	
OFAD 3350 Bus Comm .....	3			BULW 3310 Bus Law .....	3
BUAL 3310 Bus Analy .....	3			BUAL 3320 Bus Analysis II .....	3
FINC 3310 Prin of Fin .....	3			MGMT 3320 Production .....	3
MGMT 3310 Prin Mgt .....	3			MGMT 3330 HR Mgt .....	3
MKTG 3310 Prin of Mkt .....	3			ACCT 3340 Cost Accounting .....	3
		15			

<b>First Semester</b>		<b>Fourth Year</b>		<b>Second Semester</b>	
MISY 4360 Mgt Info Systems .....	3			Bus Elec (3000/4000 level) .....	3
MGMT 4320 Adv Org Behavior .....	3			MGMT 4370 Adm Policy .....	3
MKTG 4380 Adv Entre .....	3			MGMT 4340 Qual & Prod .....	3
MGMT 4310 Budgetary Control .....	3			MKTG 4310 Mkt Management .....	3
ECON 3340/3390 .....	3				
		15			

# Bachelor of Business Administration Marketing Major

(See Core Program for First and Second Year)

Third Year	
First Semester	Second Semester
OFAD 3350 Bus Comm ..... 3	BULW 3310 Bus Law ..... 3
BUAL 3310 Bus Anals ..... 3	BUAL 3320 Bus Anals ..... 3
FINC 3310 Prin of Fin ..... 3	MGMT 3320 Production ..... 3
MGMT 3310 Prin Mgt ..... 3	MKTG 3320 Retailing ..... 3
MKTG 3310 Prin Mkt ..... 3	MKTG 3330 Promotion ..... 3
15	15
Fourth Year	
First Semester	Second Semester
MISY 4360 Mgt Info Systems ..... 3	MKTG 4360 Mkt Research ..... 3
MKTG 4330 International ..... 3	MKTG 4370 Adm Policy ..... 3
MKTG 4320 Buyer Behavior ..... 3	MKTG 4370 Adv Mkt Problems ..... 3
MKTG 4310 Marketing Management ..... 3	Bus. Elec (3000/4000 level) ..... 3
ECON 3340/3390 ..... 3	
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:* ECON 1301 or ECON 2302 and ECON 2301, ACCT 2301, BUAL 3310, and MGMT 3310.
- 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.  
*Prerequisite:* ECON 1301 or ECON 2302 and ECON 2301, ACCT 2301 and MGMT 3310.
- 4310 Budgetary Control** 3:3:0  
Theories, problems and techniques of internal financial and budgetary controls. Financial planning, budgetary construction, evaluation, performance rating, replanning.  
*Prerequisite:* ECON 1301 or ECON 2302 and ECON 2301, ACCT 2301, MGMT 3310, FINC 3310 and senior standing.
- 4320 Advanced Organizational Behavior** 3:3:0  
A survey of organization theory with emphasis on behavioral issues in both the private and public sectors.  
*Prerequisite:* ECON 1301 or ECON 2302 and ECON 2301, ACCT 2301, MGMT 3310, and senior standing.

- 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.  
*Prerequisite: MGMT 3330 and senior standing.*
- 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.  
*Prerequisite: MGMT 3320 and senior standing.*
- 4370 Administrative Policy** 3:3:0  
Fundamental considerations and procedures followed in business policy formulation and administration. Managerial structure; company objectives; coordination of departmental policies; organization of personnel; reappraisals.  
*Prerequisite: FINC 3310, MGMT 3310, MKTG 3310, MGMT 3320 and must be taken in semester of graduation.*
- 4390 Special Problems in Business** 3:A:0  
Investigation into special areas in business under the direction of a faculty member.  
*Prerequisite: Permission of faculty and chair of the department.*

## Marketing Courses (MKTG)

- 3310 Principles of Marketing** 3:3:0  
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.*
- 3320 Principles of Retailing** 3:3:0  
A comprehensive introduction to large scale retailing with emphasis on layout, merchandise management.  
*Prerequisite: ECON 1301 or ECON 2301 and ECON 2302, ACCT 2301 and MKTG 3310.*
- 3330 Marketing Promotion** 3:3:0  
An overview of the broad field of advertising. Creation of primary and selective demand, promotional program selection, media selection and determination of advertising effectiveness and coordination of the promotional mix.  
*Prerequisite: ECON 1301 or ECON 2301 and ECON 2302, ACCT 2301 and MKTG 3310.*
- 3340 Marketing Channels and Logistics \*** 3:3:0  
Discusses the economic and behavioral dimensions of the management of relationships among manufacturers, wholesalers, and retailers. Also covers the physical distribution process of transportation, storage, and order processing, and related strategies.  
*Prerequisite: ECON 1301 or ECON 2301 and ECON 2302, ACCT 2301 and MKTG 3310.*  
\* Pending Approval
- 4310 Marketing Management** 3:3:0  
The planning and execution of various marketing activities from the managerial viewpoint are presented, viz: determining the basic product or service market analysis, price policies, product promotion, management of the sales force and sales analysis and physical distribution with the logistics system concept.  
*Prerequisite: ECON 1301 or ECON 2301 and ECON 2302, ACCT 2301, MKTG 3310 and MGMT 3310 and senior standing.*
- 4320 Buyer Behavior** 3:3:0  
Acquaints the student with consumer behavior models and behavior research techniques.  
*Prerequisite: ECON 1301 or ECON 2301 and ECON 2302, ACCT 2301, MKTG 3310, and senior standing.*
- 4330 International Marketing** 3:3:0  
A survey of international marketing, world markets, political restraints in trade and international marketing principles.  
*Prerequisite: ECON 1301 or ECON 2301 and ECON 2302, ACCT 2301, MKTG 3310 and MGMT 3310 and senior standing.*

- 4360 Marketing Research** **3:3:0**  
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.  
*Prerequisite: ECON 1301 or ECON 2301 and ECON 2302, ACCT 2301, MKTG 3310, BUAL 3320 and senior standing.*
- 4370 Advanced Marketing Problems** **3:3:0**  
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.  
*Prerequisite: MKTG 4310 and senior standing.*
- 4380 Advanced Entrepreneurship** **3:3:0**  
Designed to give the student actual experience in the management of a small business. The student is assigned to a local business as a "student-consultant." The student is required to submit a report outlining the problems of the business and recommended solutions.  
*Prerequisite: BUAL 3310; MKTG 4310 and senior standing in the College of Business.*



***Students in the College of Education and Human Development are professionally and technically well-prepared to accept positions in the human service and education fields.***



## The College of Education and Human Development

**Departments:** Professional Pedagogy; Health and Kinesiology;  
Family and Consumer Sciences and Educational Leadership

**LeBland McAdams, Dean**

**203 Education Building, Phone 880-8661**

**Charles M. Burke, Director of Professional  
Services and Admissions**

**206 Education Building,  
Phone 880-8902**

Preparing prospective teachers is a tradition of the University. Non-teaching specialties in dance, food service management, interior design, fashion merchandising, home economics, health and physical education are more recent offerings representing diversification and growth of the College of Education and Human Development since its establishment in 1959.

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.***

### Degrees Offered

**Bachelor of Science Degree** with majors in the following fields:

Interdisciplinary Studies  
Kinesiology

Family and Consumer Sciences  
Health

### 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 solved best by involving representatives from elementary and secondary education, higher education, state level education agencies and other appropriate groups in a partnership undertaking, the College is committed to the collaborative approach to 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, national professional organizations, public schools and human service agencies' 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 a 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.

## **Teacher Education – A Shared Responsibility**

The preparation of teachers is a responsibility shared by virtually all of the colleges of the University. Policies concerning teacher education programs are coordinated by the Teacher Education Council. This Council is composed of faculty members from the various colleges of the University offering teacher education programs. 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 which fulfill the curriculum requirements for the following Provisional Certificates in the State of Texas: elementary education, secondary education, generic special education, vocational home economics, education of the deaf, driver education, all-levels music, all-levels art, all-levels physical education, kindergarten 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, under the direction of The College of Education and Human Development, is 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, Composite Science (6-12), 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.

## Admission to Teacher Education

Application for admission to the teacher education program is made upon, or prior to, enrollment in PEDG 3310 or 3320. Applications are available in 106 Education.

***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

1. Completion of 60 semester hours including:
  - a. Successful completion of the required 1000 level courses in English
  - b. Successful completion of the required mathematics courses listed in Academic Foundation
2. An over-all grade point average of 2.5 or higher on a 4.0 scale.
3. Successful completion of the state mandated basic skills test.

## 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 together with two other PEDG courses. This 12 semester hour blocking of courses, (six hours for student teaching and two, three semester hour PEDG courses) constitutes a "professional semester."

For elementary certification programs, these courses are PEDG 4340 and 3340. For all levels certification programs these courses are PED 4340 and 3380. For secondary certification programs these courses are PED 4380 and 3380.

Students who are eligible and who desire to enroll in the "professional semester" must apply to the Director of Professional Services by December 1, prior to the Fall semester in which student teaching is planned and May 1, prior to the Spring semester for which student teaching is planned.

In order to qualify for the professional semester students must meet the following standards:

1. Be admitted to Teacher Education.
2. Be of Senior standing.
3. Possess a grade point average of 2.5 in:
  - a. All work taken
  - b. All teaching fields (areas of specialization for elementary).
  - c. All professional education courses completed.
4. Completed all courses in professional education except:
  - a. For elementary PEDG 3340, 4340 and 4630 or 4650.

- b. For elementary options IV, Early Childhood all professional education courses except PEDG 4303, 4300, and 4630.
- c. For secondary students except Home Economics majors, all professional education courses except PEDG 3380, 4380 and 4620.
- d. For Family and Consumer Sciences majors, FCSC 3380 and 4380.
- e. For all-levels students (Art, Hearing Impaired, Music and Physical Education) all professional education courses except PEDG 3380, 4340 and 4630.
- 5. Completed prerequisites in academic content area as follows:
  - a. For elementary, all courses in academic area of specialization.
  - b. For the kindergarten and ESL endorsements, nine or twelve hours of required courses.
  - c. For the Driver education endorsement all seven hours.
  - d. For secondary Option I, all-levels Hearing Impaired, and all-levels Art and Music students, 42 hours in the composite teaching field.
- 6. Written approval of the Director of Professional Services.

## 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 grade point average of 2.5 in all work undertaken at Lamar, 2.5 in elementary school specialization or in each teaching field and 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 Academic Skills Program test and successful completion of the appropriate EXCET examinations.
- 6. Department Chairs determine eligibility of students to take ExCET exams according to established guidelines by the State Board for Educator Certification.

## Provisional Certificate and Degree Requirements

Provisional 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. Provisional Certificate endorsements are available in driver education, kindergarten and English as a second language. Information concerning these programs may be found in the following paragraphs or in departmental sections of this bulletin.

Provisional 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 for provisional certificate 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 14, is required of all students working toward Provisional Certificates 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 requirements ..... 9  
(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 degree and certificate.** Described in the Art section of this catalog.

**Driver education endorsement.** Described in the Department of Health and Kinesiology section of this catalog.

**Kindergarten endorsement.** Described in the Interdisciplinary Studies section of this catalog.

**All-levels Music degree and certificate.** Described in the Music section of this catalog.

**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.

**English as a second language endorsement.** Described in the English as a Second Language section of this catalog. This endorsement may be added to any provisional teaching certificate.

## 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, Pro-

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:** Ravic Ringlaben

**Professors:** Burke, Hargrove, Haven, Watts, Karlin, Sisk

**Associate Professors:** Cooper, Henry, McCaskill, Rice

**Assistant Professors:** Goulas, Matheny, Griffith

**202 Education Building**

**Phone 880-8673**

## **Bachelor of Science Degree in Interdisciplinary Studies**

The Bachelor of Science degree in Interdisciplinary Studies is designed to meet the requirements for a Provisional Teaching Certificate in the State of Texas. Persons may receive a certificate endorsement to teach kindergarten and driver education by meeting the additional curriculum requirements as described in other sections of this bulletin.

In addition to completing the required academic foundations core curriculum described on page 14, program students must fulfill the requirements in the area of specialization, professional education and elective courses. This plan allows an overlap of six semester hours between academic foundations and the area of specialization, thus allowing 9-to-15 semester hours of free electives. If the area of specialization is in a discipline other than English, mathematics, science or history, the free electives may be reduced.

### **Academic Foundations Core Curriculum**

Described on page 14 with additional requirements in the introductory section for College of Education and Human Development.

### **Academic Specialization (36 Hours)**

#### **A. Elementary Options**

Option II—18 advanced hours

**Art—ARTS 1316, 1311, 1303, 1304, 3371 and 3376.**

**Biology**—BIOL 1406, 1407, 3460; Eight hours selected from: 3450, 4406, 4440, 4460, 4430.

**Communication**—COMM 2341, 1318, 2335, 3301, 4320 and 4390.

**Earth Science**—GEOL 1403, 1404, 2376, 3390, 4370, 4380, and PHYS 1311 or GEOL 2377.

**English**—Six semester hours of literature are in the general education courses. ENGL 4312 or 4323, three courses from ENGL 3390, 3340, 3324, 4328, 4329, 4336, 3360, 3370, 3390, 3322, 4317, 4318, 4319, 4326, 4322, 3380, 3316, 4324, 4340, 4350, 4380, 4390, or equivalent.

**Health**—HLTH 1306, 2374, 2378, 3370, 4340, 4370.

**History**—HIST 2321 or 2322, 1301, 1302, one course Advanced U.S. History, one course Advanced NON-U.S. History and one course Advanced History.

**Math**—MATH 1335, 1314, 1336, 3313, 3315, 3317.

**Music**—MUTY 1311, 1312, MUSI 3310, 3320, 3350, 3370.

**Kinesiology** (required)—KINT 3350, 3370, 3390, KINA 2271; DANC 1222; six hours selected from: KINT 2371, 3390, 4360, 4380.

**Reading**—PEDG 2374, 3360, 3370, 3390, 4310, 4390.

**Physical Science**—CHEM 1411, 1412 or 1405, 1407; PHYS 1401 or 1402, 1405, 1407, 2426 and nine hours upper division Chemistry or Physics courses.

**Social Studies**—GEOL 2376, 2377; ECON 2302, 2301; POLS (six hours-three hours advanced); HIST 2321, and three hours advanced, NON U.S. history.

Option III

**Special Education**—PEDG 2371, 2372, 3304, 3305, 4307, 4308, 4309, and 4311.

Option IV—24 hours

**Early Childhood**—PEDG 3360, 4305, 4300, 4303, 4304; FCSC 3340, 3390, KINT 3370 and a combination of subjects (12 hours).

B. Work in a combination of subjects (See Advisement Office for specific subjects).

Option II—18 hours

Option IV—12 hours

## Professional Development (18 semester hours)

PEDG 3310 Introduction to American Education

PEDG 3320 Human Learning

PEDG 3340 Elementary Curriculum & Methodology

PEDG 4340 Elementary Methodology and Classroom Management

PEDG 4650 Student Teaching in the Elementary School

## Bachelor of Science Degree – Interdisciplinary Studies

### Suggested Programs of Study

The degree and certification requirements are shown in outline form below, comprising a desirable sequence of courses.

First Year	Second Year
Eng Comp ..... 6	Eng Lit ..... 6
Lab/Sci ..... 8	Amer Hist ..... 6
Music (as required) ..... 3	POLS 2301, 2302 ..... 6
PHIL 1370 ..... 3	COMM 1315 or 1307 ..... 3
Elec Core Curriculum ..... 3	Courses from combination of subjects ..... 3
PEGA ..... 2	HLTH 1370 ..... 3
ARTS 3371 ..... 3	COSC 1371 or PEDG 5331 ..... 3
MATH 1335, 1314 ..... 6	Area of Specialization ..... 3
	Humanities ..... 3
34	36
Third Year	Fourth Year
GEOL 2377 or 2376 ..... 3	MATH 3315 ..... 3
PEDG 3310 ..... 3	Science Adv ..... 6
PEDG 3320 ..... 3	Reading Adv ..... 6
PEDG 3370 ..... 3	Eng Adv Lit ..... 3
Area of Specialization ..... 9	PEDG 3340 ..... 3
ENGL 4312 ..... 3	PEDG 4340 ..... 3
Soc Sci (Adv) ..... 6	PEDG 4650 or 4630 ..... 6
MATH 3313 ..... 3	Area of Specialization ..... 3
36	33

## Kindergarten Certificate Endorsement Requirements

Kindergarten may be added as an additional endorsement to the Provisional Elementary Certificate and is based on the successful completion of the courses listed below.

PEDG 4302 Early Childhood Development ..... 3
PEDG 4303 Instruction in Early Childhood ..... 3
PEDG 4304 History and Philosophy of Kindergarten ..... 3
PEDG 4630 Student Teaching (three hours of Elementary, three hours Kindergarten) ..... 6
Total ..... 15

Students who do not plan to student teach in kindergarten can certify after taking 12 hours of kindergarten course work and after teaching one year in an accredited kindergarten.



## 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) Specialization:** See Department of Art in this bulletin.

**Biology—Opt II** BIOL 1406, 1407 and one of the following: BIOL 3440, 4430, 4406 or 4460, and sufficient hours from the following Biology Core Courses to total 24 semester hours: 2420, 3460, 2428 (or 4440), 3470, 3450. Those whose first teaching field *requires* Bio 2401-2402 may substitute those courses for Bio 2428. Three courses must be at Junior-Senior level.

**Business Composite—Opt III** Office Administration (Plan II Composite Field), Specialization: (54 semester hours) ACCT 2301, 2302, MISY 3340, BUAL 3310, BULW 3310, FINC 3310, MGMT 3310, 3320, 4370, MKTG 3310, OAFD 1302, 2301, 3350, 3360, 3380, 4310, MISY 4360. (Academic Foundations must include ECON 2301, 2302, COMM 1315, plus three hours from a third group).

**Chemistry—Option I** Specialization (48 semester hours) CHEM 1411, 1412, 2401, 3331, 3411, 3412, 4311, 4312, 4131, 4132, 4111, 4121, 1 hour of Chem elective, PHYS 1401, 1402, MATH 2376, 2377.

**Chemistry—Opt II** Specialization: (25 semester hours) CHEM 1411, 1412, 2401, 3331, 3411, 3412, 4111, one hour Chem elective.

**Communication/Journalism—Opt II** Specialization: (24 semester hours) COMM 1373, 2311, 2372, 3330, 3361, 3381, 4310, 4380.

**Communication/Speech—Opt II** Specialization: (24 semester hours) COMM 2373, 2374, 2341, 1318, 2335, 3340, 3390, 4390.

**Computer Information Science—Opt I** Specialization: (27 semester hours) COSC 1373, 1374, 2371, 2372, 3304, 4302, CPSC 4340. Six hours from COSC 3308, 4307, 4309, CPSC 3320, 4330, MATH 2413, 2305, 2318, 1342.

**Computer Information Science—Opt II** Specialization: (27 semester hours) CS 1373, 1374, 2371, 2372, 3304, 3308, 3340, CPSC 4340 and COSC 4302, 4310 or CPSC 3320.

**Dance—Opt II** Specialization: (33 semester hours) DANC 1222, 1210, 2241, 2245, 2371, 1301, 3350, 3360, 4380, KINT 2371, 3370. Three hours from DANC 2370, 3301, 3310, KINT 3390.

**Drama** (See Theater).

**Earth Science—Opt I** Specialization (50 Semester hours) GEOL 1403, 1404, 2377, 2471, 3390, 3101, 3102, 4420, 4391, 4370, 4380, CHEM 1405, COSC 1371 or PHYS 1311 or GEOL 3410, 4390, PSYC 2471.

**Earth Science—Opt II** Specialization: (27 semester hours) Geo 1403, 1404, 2471, 3101, 3102, 4370, 4380. PHYS 1311 or GEOL 4390, CHEM 1405.

**Life-Earth Science—Opt II** Specialization (37-38 semester hours) BIOL 1406, 1407, 3460, 3450. PHYS 1311, GEOL 4370, 4380, BIOL 4430 or 4460, GEOL 1403 and 1404.

**Economics—Opt II** Specialization: (24 semester hours) ECON 2301, 2302, 3360, 3370, 4315, 4350, plus six semester hours from ECON 3320, 3330, 4340, 4380.

**English—Opt I** Specialization: (36 semester hours) six semester hours of sophomore literature: ENGL 3321, ENGL 4326 or 3326, one course from ENGL 4300, 4312, 4323, two courses from ENGL 3360, 3390, 3324, 4328, 4329, 4336, or equivalent, four courses from

ENGL 3320, 3340, 3360, 3370, 3380, 3316, 4324, 4340, 4350, 4380, 4390, 4311, 4314, 4317, 4318, 4319, 4333, 4334, or equivalent, and one advanced Eng elective. Must include a foreign language through 2312.

**English—Opt II Specialization:** (30 semester hours) six semester hours of sophomore literature; ENGL 3321, ENGL 4326, one course from ENGL 4300, 4312, or 4323, two courses from ENGL 3360, 3390, 3324, 4328, 4329, 4336, or equivalent, three courses from ENGL 3320, 3340, 3360, 3370, 3380, 3316, 4324, 4340, 4350, 4380, 4390, 4311, 4314, 4317, 4318, 4319, 4333\*\*, 4334\*\*, or equivalent. When selected as first teaching field, must include a foreign language through 2312, as second teaching field, must include a foreign language through 1312.

*\*\*May satisfy American Literature requirement when course focuses on American literary topic.*

**English Language Arts—Option IV Specialization:** (48 semester hours) six hours of sophomore literature, ENGL 3321, ENGL 4326 or 3326, ENGL 4300, 4312, or 4323, fifteen hours of advanced literature (may include 3350 or 4345), COMM 1315 or 3310 (in foundations); COMM 2341, 1373, 2311, PEDG 3326 (in Foundations), and PEDG 3390. Must include a foreign language through 2312.

**French—Opt II Specialization:** (30 semester hours) FREN 1311, 1312, 2311, 2312, 3300, 3370, 3380, plus nine hours from FREN 3350, 3360, 3390, 4310, and 4390.

**General Science—Opt IV (Plan II Composite Field) Specialization:** (54 semester hours) BIOL 1406, 1407; CHEM 1411, 1412, 3331; GEOL 1403, 1404, 2471, 3390; PHYS 1401, 1402, 2425, 2426 and 3350; eight or nine hours advanced Biology or 12 hours advanced Geology or eight or nine hours advanced Chemistry or eight or nine hours advanced Physics.

**Health—Opt II Specialization:** (27 semester hours) HLTH 1306, 1373, 2374, 2378, 3360, 3370, 4340, 4370, FCSC 1322.

**Hearing Impaired** — see advisor.

**History—Opt II Specialization:** (24 semester hours) HIST 2321, 2322, six hours advanced American History, six hours advanced NON-U.S. History plus HIST 2301 and 3390.

**Journalism**—(See Communication/Journalism)

**Vocational Home Economics Specialization:** (51 semester hours) FCSC 1315, 1328, 1375, 1377, 1322, 1320, 2371, 3300, 3340, 3380, 3390 or 4327, 4301, 4308, 4330, 4333, 4350, 4390. See Family and Consumer Sciences section of this bulletin for complete description of certification plan in this area.

**Mathematics—Opt I Specialization:** (49 semester hours) MATH 2305, 2413, 2414, 2318, 2415, 3350, 3370, 3401, 3380, 4301, 4315. At least two course selected from the following list: MATH 3300, 3317, 3321, 3330, 4316, 4330, and two courses in computer science.

**Mathematics—Opt II Specialization:** (29 semester hours) MATH 2305, 2413, 2414, 2318, 3370, 3350. At least two courses selected from the following list: MATH 3300, 3317, 3321, 3380, 4315, 4316, 4301, 4330.

**Music (All Levels)** See Music Department in this bulletin.

*Note: BIOL 2401-2402 are not prerequisite to advanced Biology courses as Foundation electives.*

**Kinesiology—All Levels** See Department Health and Kinesiology in this bulletin.

**Physical Science—Opt II Specialization:** (28-30 semester hours) CHEM 1411, 1412, 3331; PHYS 1401, 1402, or PHYS 2425, 2426 and 3350; plus eight approved advanced hours.

**Physics—Opt II Specialization:** A total of 24 semester hours of Physics is required, including eight hours of General Physics (PHYS 1401, 1402 or PHYS 2425, 2426) and at least 13 hours of physics courses above 3000 level which must include modern physics and analytical mechanics.

**Political Science—Opt II Specialization:** (24 semester hours) POLS 2304, 2301, 2302, plus one course from each group bracketed: (3340, 3350, 3390, 4370, 3301, 3313), (4320, 4330), (3320, 3370, 4350), (3310, 3317, 4381, 4383), (3316, 4300, 4340).

**Psychology—Opt II Specialization:** (25 semester hours) PSYC 2301, 2308, 2471, 3320, 3330, 3360, 4320, 4360.

**Reading—Opt II Specialization:** (24 semester hours) PEDG 2374 3370, 3360, 3326, 4310, 4390; PEDG 3305, 3390.

**Social Studies—Opt IV (Plan II Composite Field) Specialization:** (57 semester hours)

A. Thirty semester hours: ECON 2302, 2301; GEOL 2376, 2377; POLS 2304, 3319, 4319; HIST 2321, 2322, 2301, 3390.

B. Twenty four semester hours, approved advanced, selected from the following: History, Political Science, Geography, or Economics.

**Sociology—Opt II Specialization:** (24 semester hours) SOCI 1301, 1306; one course from SOCI 3306, 3380 or 3390; one course from SOCI 2301, 3310, 3350, 4320; four courses from SOCI 3320, 3330, 4340, 4350, 4380, 4390.

**Spanish—Opt II Specialization:** (30 semester hours) SPAN 1313, 1314, 2311, 2312, 3300, 3350, plus twelve hours from SPAN 3310, 3320, 3330, 3340, 3380, 3390, 4320, 4360, and 4380.

**Special Education—Generic—Opt II Specialization:** (24 semester hours) PEDG 2371, 2372, 3304, 3305, 4307, 4308, 4309, 4310.

**Speech—**(See Communication/Speech)

**Theater (Drama)—Opt II Specialization:** (41 semester hours) THEA 1370, 1310, 1330, 2370, 2371, 2372, 2375, 1352, 3330, 3336, 3360, 4360, 4380, 4371.

### 3. Professional Development (18 semester hours)

PEDG 3310 Introduction to American Education

PEDG 3320 Human Learning

PEDG 3326 Reading Strategies for Content are Required of all Secondary Certification Programs.

PEDG 3380 Secondary Curriculum and Methodology

PEDG 4380 Secondary Methodology and Classroom Management

PEDG 4620 Student Teaching in the Secondary School

## Professional Pedagogy Courses (PEDG)

Note: To enroll in non-professional development courses, it is not necessary for students to be admitted to the teacher education program.

**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.

**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.

**2372 Behavior Modification and Management for the Exceptional** 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:* PEDG 2371 or instructor's approval.

**2373 Peer Advisor-Counselor Training** 3:2:2  
Designed primarily for those who will be learning about systematic helping and interpersonal relating by practicing the skills that constitute the helping process. Content based on learning theory, social-influence

theory, behavior-modification principles and practice, and skills-training and problem-solving methodologies. Not applicable to TEA certification plans.

*Prerequisite: Permission of the instructor.*

**2374 Foundations of Reading Instruction 3:3:0**

An orientation to background, terminology and programs for the teaching of reading. Designed to give an overview of the history of the English language, the reading process and the psychology of reading instruction.

*Prerequisite: Sophomore standing.*

**3304 Educational Needs of the Exceptional Individual 3:3:0**

Evaluation and application of various techniques for determining educational needs of the exceptional individual and general instructional arrangement considerations.

*Prerequisite: PEDG 2371 or instructor's approval.*

**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 or instructor's approval.*

**3310 Introduction to American Education 3:3:0**

(See Admission To Teacher Education Requirements)

Focuses on the historical, philosophical, organizational, professional and cultural-ethnic components of American education with particular emphasis on awareness and understanding of specific needs of children and youth of various cultural-ethnic components.

*Prerequisite: Junior standing and meet criteria for admission to teacher education.*

**3320 Human Learning 3:3:0**

(See Admission To Teacher Education Requirements)

Principles and psychological problems involved in education with emphasis on learning theories and the practical application of psychological principles to teaching.

*Prerequisite: Junior standing and meet criteria for admission to teacher education.*

**3326 Reading 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.*

**3340 Elementary Curriculum and Methodology 3:3:0**

(See Admission To Teacher Education Requirements)

Methods and materials for teaching in the elementary schools. Emphasis upon methodology and curriculum.

*Prerequisite: Meet criteria for admission to student teaching/professional semester.*

**3360 Children's 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 standing.*

**3370 Materials and Resources for Teaching Reading 3:3:0**

A concentration on planning, producing, selecting, organizing and evaluating instructional materials and equipment to be used in teaching reading.

*Prerequisite: PEDG 2374, PEDG 3390 or instructor's approval.*

**3380 Secondary Curriculum and Methodology 3:3:0**

(See Admission To Teacher Education Requirements)

The structure and organization of the curriculum, materials and methods used and types of evaluation in secondary schools.

*Prerequisite: PEDG 3310, PEDG 3320 or instructor's approval.*

**3390 Reading in the Elementary School 3:3:0**

Methods and materials for teaching reading in the elementary school. Emphasis upon the placement of materials and lesson planning.

*Prerequisite: PEDG 2374 or instructor's approval.*

**4301 Institute or Workshop in Education 1-6:1-6:0**

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.

**4300 Behavioral Management & Classroom Procedures 3:3:0**

A comprehensive study of behavioral management in early childhood/elementary school environments. A developmental perspective will be presented and related to a discipline management system.

*Prerequisite: PEDG 3310, PEDG 3320 or instructor's approval.*

**4302 Early Childhood Development 3:3:0**

A study of the psychological development of children from birth to age six, with recognition given to their basic needs. Includes some of the appropriate educational experiences for the early years.

**4303 Instructional Strategies for Early Childhood 3:3:0**

A comprehensive study of methods and materials for preschool and kindergarten-age children. Focus on oral language experiences, science and mathematics concepts and creative expression.

*Prerequisite: PEDG 3310, PEDG 3320 or instructor's approval.*

**4304 Survey of the History of Early Education 3:3:0**

A comparative study of the early childhood educational movements of the past and their impact on present and future programs.

**4305 Seminar in Early Childhood Educational Research 3:3:0**

A survey of research studies in learning theory and in instructional practices for young children.

**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.

**4307 Practicum in Instructional Alternatives in Reading and Language Arts for the Exceptional Learner 3:A:0**

Practicum experience in the identification and instruction of pupils evidencing disabilities in reading and language arts.

*Prerequisite: PEDG 3305 or instructor's approval.*

**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.

**4309 Instruction of the Exceptional Learner 3:3:0**

Classroom management, teaching strategies, instructional materials for the exceptional learner. Various approaches and rationales are presented.

**4310 Diagnostic-Prescriptive Techniques in the Teaching of Reading 3:3:0**

Techniques for ascertaining reading strengths and weaknesses. Planning and implementing instruction to meet individual needs.

*Prerequisite: Junior standing and PEDG 2374, 3370, 3390.*

**4311 Practicum in Instructing the Exceptional Individual 3:A:0**

Practicum experience with the exceptional learner. Includes identification, interpretation of data, development of instructional goals and implementation of instructional objectives. When experience is with emotionally disturbed it includes at least 54 contact clock hours of work.

**4331 Microcomputer Applications 3:3:0**

A practical course using the Macintosh Computers to master word processing, data base, and the spreadsheet. The use and evaluation of selected software along with current issues in microcomputers is included.

**4340 Elementary Methodology and Classroom Management 3:3:0**

(See Admission To Teacher Education Requirements)

A study of problems relating to classroom management, curriculum and methods.

*Prerequisite: Meet criteria for admission to student teaching/professional semester.*

**436 Student Teaching in the Kindergarten 3:A:0**

Supervised observation and teaching the kindergarten. Three hours in kindergarten classrooms five days per week for eight weeks.

**4380 Secondary Methodology and Classroom Management 3:3:0**

(See Admission To Teacher Education Requirements)

Organization of subject matter, lesson planning, classroom management and general methods of teaching secondary schools.

*Prerequisite: Meet criteria for admission to student teaching/professional semester.*

- 4390 Reading Practicum** 3:3:0  
Participation in a directed field experience. The students will work with typical class, groups and individuals in the application of concepts, skills and techniques.  
*Prerequisite:* Twelve semester hours of reading including PEDG 3390 and 4310.
- 4620 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 12 weeks.
- 4630 Student Teaching—Special** 6:A:0  
Special student teaching situations designed for students working all-level certificates, special education, kindergarten education and speech and hearing.  
*Prerequisite:* See Admission to Student Teaching in this catalogue. Class: All day in a professional classroom setting, five days per week for 12 weeks.
- 4650 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.

## Department of Health and Kinesiology

**Department Chair:** E. Harold Blackwell 101 Women's Gym, Phone 880-2226/8724

**Director of Academic Programs:** Douglas Boatwright Phone 880-8711/8045

**Coordinator of Health Programs:** Joel Barton Phone 880-8341

**Coordinator of Kinesiology & Graduate Programs:** Douglas Boatwright Phone 880-8045

**Professors:** Barton, Blackwell, Boatwright, Jolly

**Assistant Professors:** Johnson, Park, Payton, Plugge, Randleman, Strickland, Worsham

**Instructors:** Gilligan, Moore, Wesbrooks

**Lecturers:** Barnes, Barrett, Biggers, Clark, Collins

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 is available which does not lead to teacher certification: health. Undergraduate programs lead to a Bachelor of Science degree in Health or Kinesiology. Graduate programs leading to a Master of Science degree are described in the Graduate Bulletin.

The general physical activity two semester program for all university students provides a varied selection of activities which include aquatics, dance, fitness and sports. The activity program is designed to enhance the general education objectives of the University.

### Health

The health program of study offers two options for a career in health. A student choosing a teaching career should follow the certification program which leads to certification to teach health plus an approved additional teaching field at the secondary level. A student selecting the non-certification program prepares for a career in health agencies and municipal health departments. 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.

## Bachelor of Science – Health Teacher Certification Program†

First Year		Second Year	
Engl Comp .....	6	Engl Lit .....	6
MATH 1314 .....	3	POLS 2301-2302 .....	6
Math .....	3	HIST 1301-1302 .....	6
BIOL 2401-2402 .....	8	Soc Sci .....	3
HLTH 1370 .....	3	COSC 1371 .....	3
PEGA .....	2	PEGA .....	2
PHIL 1370 .....	3	FCSC 1322 Nutrition .....	3
HLTH 1306 Emergency Care & Safety .....	3	HLTH 2374 Public and Consumer Health .....	3
HLTH 1373 Foundations of Health .....	3	Fine Arts .....	3
	34		35
Third Year		Fourth Year	
COMM 1315 or 3310 .....	3	HLTH 4340 Program Planning and Evaluation .	3
HLTH 2378 Human Sexuality and Sexually Transmitted Diseases .....	3	HLTH 4370 Community Organization and Development .....	3
HLTH 3360 Health Science and Epidemiology .	3	PEDG 4380 Secondary Methodology and Classroom Management .....	3
HLTH 3370 Contemporary Issues .....	3	PEDG 4620 Student Teaching-Secondary .....	6
PEDG 3310 Intro to American Public Ed .....	3	Second Teaching Field .....	9
PEDG 3320 Human Learning .....	3	PEDG 3380 Secondary Curr and Methods .....	3
PEDG 3326 Reading Strategies .....	3		
Second Teaching Field .....	15		
	36		27

Total 132 semester hours

†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 Program

First Year		Second Year	
Engl Comp .....	6	Engl Lit .....	6
MATH 1314 (or above) .....	3	POLS 2301-2302 .....	6
MATH 1342 or PSYC 2471 .....	3	HIST 1301-1302 .....	6
BIOL 2401-2402 .....	8	PSYC 2301 Intro to Psychology .....	3
PHIL 1370 .....	3	PEGA .....	2
PEGA .....	2	COSC 1371 .....	3
HLTH 1370 .....	3	FCSC 1322 Nutrition .....	3
HLTH 1306 Emergency Care and Safety .....	3	HLTH 2374 Public and Consumer Health .....	3
HLTH 1373 Foundations of Health .....	3	HLTH 2378 Human Sexuality and Sexually Transmitted Diseases .....	3
	34		35

**Third Year**

HLTH 3360 Health Science and Epidemiology .	3
HLTH 3370 Contemporary Health Problems ....	3
COMM 1318 .....	3
Fine Arts .....	3
BIOL 2420 or KINT 3330 .....	3-4
*Electives .....	17-18

33

**Fourth Year**

HLTH 4340 Program Planning and Evaluation .	3
HLTH 4370 Community Organization and Development .....	3
HLTH 4360 Practicum in Health .....	3
HLTH 4460 Health Internship .....	4
SOCI 3320 Soc Psy .....	3
COMM 3310 .....	3
*Electives .....	13

32

Total 134 semester hours

*\*Electives should include the following:**A related minor of 18 semester hours approved by department chair.**A related elective program of 12 semester hours approved by department chair.***Kinesiology**

The kinesiology program of study prepares the student for a teaching career in kinesiology. A companion program of specialization in elementary kinesiology is available through the Bachelor of Science in Interdisciplinary Studies (see Department of Education Professional Pedagogy in this bulletin for further information.)

The kinesiology teaching certification program offers 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 (2) the required block of professional development courses and (3) the required block of professional activity courses.

The required block of professional theory courses will vary contingent upon the degree option selected. A grade of "C" must be earned in each of the kinesiology professional theory courses. 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.

The required block of professional development courses are PEDG 3310, 3320, 3326, 3380, 4380 and 4620. A student must be admitted to the College of Education and Human Development's teacher education program before enrolling in professional development courses.

The required block of professional activity courses are KINA 1270, DANC 1222, and



KINA 2271. Fourteen additional hours must be selected from DANC 1233, KINA 2273, 2275, 2255, 2277, 2278, 2229, 3201, 3202, 3203, 3204, 3205, 3206, 3207. A minimum of six hours must be selected from the advanced level courses. Of the 20 hours taken to meet degree requirements, a grade of "B" or higher must be earned. A student must have completed the English, Math, Biology, Political Science, and History General Education Requirements prior to enrolling in the KINT 3000 level and/or KINA 3000 level courses.

## 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 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

Eng Comp .....	6
MATH 1314 .....	3
Math .....	3
BIOL 2401-2402 .....	8
HLTH 1370 .....	3
KINT 1301 Foundations .....	3
DANC 1222 Folk Dance .....	2
KINA 1270 Swimming .....	2
KINA Electives .....	2
PHIL 1370 .....	3

35

### Second Year

Eng Lit .....	6
POLS 2301-2302 .....	6
HIST 1301-1302 .....	6
COSC 1371 .....	3
COMM 1315 or 3310 .....	3
KINT 2371 Functional Anat & Physiology .....	3
KINA 2201 Gymnastics Techniques .....	2
KINA Electives .....	6

35

### Third Year

KINT 3320 Management Skills .....	3
KINT 3350 Atypical Child .....	3
KINT 3360 Contemp Prob in Sec School .....	3
KINT 3370 Motor Develop .....	3
KINT 3390 Movement Exper for Young Child .....	3
KINT 3330 Exercise Physiology .....	3
KINA Electives .....	6
Fine Arts .....	3
PEDG 3310 Intro to Am Public Ed .....	3
PEDG 3320 Human Learning .....	3
Soc Sci .....	3

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### Fourth Year

KINT 4360 Measurement & Evaluation .....	3
KINT 4380 Strategies in Kinesiology .....	3
KINT 4330 Motor Learning .....	3
Kin Elective .....	3
PEDG 3326 Reading Strategies .....	3
PEDG 3380 Second Curric and Method .....	3
PEDG 4340 Elem Method and Class Management .....	3
PEDG 4630 Student Teaching-All Level .....	6

27

Total 133 semester hours

\*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.

## Health Courses (HLTH)

- 1306 Emergency Care and Safety** 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**  
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:A: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.*
- 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.
- 4360 Practicum in Health** 3:3:0  
Observation and study of health programs and organizations.  
*Prerequisite: Approval of department head.*
- 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.
- 4460 Health Internship** 4:3:2  
Supervised internship at selected community, public or private health agencies and/or organizations.  
*Prerequisite: Approval of department head.*

## Kinesiology Theory Courses (KINT)

- 1301 Foundations** 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 2401-2402.*
- 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 behind the wheel 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.  
*Prerequisite: Bio 143-144, Kin 231.*
- 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.  
*Prerequisite: Junior standing.*
- 4300 Individual Study** 3:A:0  
Selected problems in the discipline; not to be used in lieu of a class. May be repeated for credit. Class by consultation.  
*Prerequisite: Senior standing and consent of department head.*
- 4301 Workshop** 3:3:0  
A number of workshops are designed to advance the professional competence of students. Foreach 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, variables influencing the state of the performer and application of these concepts to the acquisition of motor skills.

- 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 Strategies in Kinesiology** 3:3:0  
A study of programs and problems associated with the implementation of programs.
- 4620 Kinesiology Internship**  
Supervised internship at selected public or private agencies and/or institutions.

## Kinesiology Activities (KINA)

- 1270 Swimming** 2:1:2  
The introduction and development of skills and basic conditioning related to swimming with particular emphasis on acquisition of skill, appreciation of safety and skill progression.
- 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 Technique** 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** 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.

## 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. Aerobic exercise and strength training courses are also available for those interested in achieving and maintaining a healthy fitness level.

The exercise classes include strength training, land aerobics, step aerobics, dance, water aerobics, cross training and walking for fitness. Classes for lifespan sports include golf, basketball, volleyball and the racquet sports. Aquatic sections offer beginning swimming, advanced swimming, lifeguarding, water safety instructor and sailing.

ONLY one PEGA course per semester will qualify for degree credit. Specific courses may be repeated.

### Activity Courses (PEGA)

- |                                  |  |
|----------------------------------|--|
| 1270 beginning swimming          | 2275 baseball                          |
| 1272 strength training           | 2276 <sup>1</sup> beginning gymnastics |
| 1273 women's strength training   | 2277 sailing                           |
| 1274 crosstraining               | 2278 volleyball                        |
| 1275 water aerobics              | 2272 golf                              |
| 1251 intermediate water aerobics | 2271 intermediate golf                 |
| 1276 walking for fitness         | 2279 racquetball                       |
| 1278 yoga stretching             | DANC 2272 aerobics                     |
| 2272 basketball                  | KINA 2255 water safety instructor      |
| 2280 badminton                   |  |
| 2273 beginning tennis            |  |
| 2274 intermediate tennis         |  |

### Dance Courses (DANC)

See Division of Dance, Department of Music, Theatre and Dance, College of Fine Arts and Communication in this catalog for further information.

### Activity Courses (PEGA)

Students enrolled in physical education activity classes may be required to wear regulation uniforms suggested by the instructor. Equipment for class may be provided by the student.

## 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- Beaumont.\*
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. Specific course requirements are KINT 2376, 2377 and 2378.

## **Department of Family and Consumer Sciences**

**Department Chair:** Connie Elliff

**Professor:** McAdams

**Associate Professors:** Elliff, Pemberton

**Assistant Professors:** Nichols, Wallet, Droddy

**Instructors:** Brockhoeft, Dahm, Eisen

**Adjunct Instructors:** Devillier, Packman

**Family and Consumer Sciences Bldg**

**Phone 880-8663**

### **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 home economics 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 an Approved Preprofessional Practice Program in Dietetics. These programs are described in the Graduate Bulletin. An Associate of Applied Science degree is offered in Restaurant & Institutional Food Management. Details may be found in the Bulletin of the Lamar University Institute of Technology. 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 Wallet**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 Sci (core) .....	8
PHIL 1370 Phil of Knowledge .....	3
Computer Sci .....	3
FCSC 1375 Visual Design .....	3
FCSC 1377 Intimate Relations: Marriage/Family3	
HLTH 1370 .....	3

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**Second Year**

Eng Lit .....	3
Elective .....	3
POLS 2301, 2302 .....	6
Soc Sci (Core) .....	3
FCSC 1320 Textiles .....	3
FCSC 1322 Nutrition in Health and Disease ...	3
*FCSC .....	6
Fine Arts (Core) .....	3
PEGA .....	4

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**Third Year**

American History .....	6
FCSC 3300 Consumer Economics .....	3
FCSC 1315 Intro Food Science .....	3
FCSC 3340 Child & Adol Dev .....	3
*FCSC .....	3
FCSC 2371 Qty Food Mgmt or* .....	3
Area of emphasis .....	9

30

**Fourth Year**

FCSC 4330 Kitchen Des & Equip .....	3
FCSC 4301 Senior Seminar .....	3
FCSC 4350 Consumer Housing .....	3
FCSC 4327 Parenting .....	3
Communications (core) .....	3
FCSC 3316 Family Resources .....	3
FCSC 3390 Sem in Family and Human Relat ..	3
FCSC 4367 Internship .....	3
Area of emphasis .....	9

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*\*Special courses are selected in conference with academic advisor and must be approved by the advisor. Nine hours must be chosen from 3000/4000 level classes.*

## Home Economics Teacher Certification – General

**Advisors:** Barbara Brockhoeft  
LeBland McAdams

**FCS Bldg**  
**203 Ed 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
BIOL 1470 .....	4
MATH 1314 .....	3
Math or Quan Analysis .....	3
FCSC 1315 Intro Food Science .....	3
FCSC 1375 Visual Design .....	3
FCSC 1377 Intimate Relationships:	
Marriage and the Family .....	3
PEGA .....	2
HLTH 1370 .....	3
PHIL 1370 Philosophy of Knowledge .....	3

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#### Second Year

Eng Lit .....	3
BIOL 1471 .....	4
POLS 2301-2302 .....	6
FCSC 1320 Textiles .....	3
FCSC 1328 Clothing Construction .....	3
FCSC 1322 Nutrition in Health and Disease .....	3
FCSC 3340 Child & Adol Dev .....	3
Fine Arts (Core) .....	3
PEDG 2371 Foundations of Special Edu .....	3
PEGA .....	2

33

#### Third Year

Eng Lit .....	3
HIST 1301-1302 .....	6
PEDG 3310 Found of Education .....	3
PEDG 3320 Ed Psy .....	3
FCSC 4333 Child Guidance .....	3
FCSC 3380 Prin of Presentation .....	3
FCSC 2301 Quantity Food Serv Sys Mgt .....	3
FCSC 3300 Consumer Economics .....	3
Soc Sci .....	3
FCSC 3390 Seminar in Family and	
and Human Relationships OR	
FCSC 4327 Parenting .....	3

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#### Fourth Year

COMM 1315 Public Speaking .....	3
PEDG 3326 Reading Strat Content Area .....	3
FCSC 4350 Consumer Housing .....	3
FCSC 4301 Senior Seminar .....	3
FCSC 4308 World of Work .....	3
FCSC 4330 Kitchen Des & Equip .....	3
FCSC 4380 Classroom Strat for Voc. H.E. ....	3
FCSC 4390 Family Resource Management .....	3
FCSC 4620 Student Tchg in Home Eco .....	6
PEDG 4331 Microcomputer .....	3

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## Foods, Nutrition and Dietetics

**Advisors:** Connie Elliff  
Amy Pemberton

FCS Bldg  
FCS Bldg

The Foods, Nutrition, and Dietetics 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 or an ADA-approved preprofessional practice program (AP4). After successful completion of an internship or AP4, 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 1314 .....	3
PSYC 2301 .....	3
FCSC 1315 Intro Food Science .....	3
FCSC 1322 Nutrition in Health and Disease .....	3
HLTH 1370 .....	3

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#### Second Year

Eng Lit .....	3
POLS 2301-2302 .....	6
COSC 1371 Microcomputers I .....	3
CHEM 1406-1408 .....	8
FCSC 1377 Intimate Relationships: Marriage and the Family .....	3
SOCI 1301 .....	3
Fine Arts (core) .....	3
PEGA .....	4

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#### Third Year

American History .....	6
BIOL 3450 .....	4
FCSC 2373 Food & Beverage Controls & Syst ..	3
FCSC 2377 Facilities Layout and Design .....	3
FCSC 3300 Consumer Economics .....	3
FCSC 3330 Nutritional Biochem .....	3
FCSC 4307 Nutri thru Life .....	3
FCSC 2371 Quantity Food Service Sys Mgt .....	3
FCSC 4360 Org. Behavior & Mgt .....	3
Elective .....	3

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#### Fourth Year

Eng Lit or For Lang .....	3
ENGL 3310 Tech Report Writ or OFAD 3350 ...	3
COMM 3340 Interviewing .....	3
MATH 1342 Elem Stat OR PSYC 2471 .....	3
FCSC 3320 Adv Nutrition .....	3
FCSC 4301 Senior Seminar .....	3
FCSC 4300 Diet Therapy I .....	3
FCSC 4317 Community Nutri .....	3
FCSC 4347 Advanced Foods .....	3
FCSC 4310 Diet Therapy II .....	3
Elective .....	3

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## Family Studies

**Advisor:** Kim Wallet

**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 in home management and 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 Sci .....	8
FCSC 1377 Intimate Relationships	
Marriage and the Family .....	3
Soc Sci (Core) .....	3
PHIL 1370 Phil of Knowledge .....	3
Fine Arts (Core) .....	3
PEGA .....	2
HLTH 1370 .....	3

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#### Third Year

American History .....	6
FCSC 3300 Consumer Economics .....	3
FCSC 3340 Child & Adol Dev .....	3
FCSC 3316 Family Resources .....	3
FCSC 4326 Family Violence OR	
FCSC 4328 Single Parent Fam .....	3
ANTH 3310 or SOCI 3350 .....	3
FCSC 4329 Family Communication .....	3
Minor .....	6

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#### Second Year

Eng Lit or For Lang .....	3
Eng Lit .....	3
Math or Quan Analysis (core) .....	3
POLS 2301-2302 .....	6
SOCI 1301 .....	3
FCSC 1322 Nutr in Health & Disease .....	3
Elective .....	3
Minor .....	6
PEGA .....	2

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#### Fourth Year

FCSC 4333 Child Guidance .....	3
FCSC 4301 Senior Seminar .....	3
FCSC 4350 Consumer Housing .....	3
FCSC 4327 Parenting .....	3
COMM 3340 Interviewing .....	3
FCSC 3390 Sem in Family & Human Rel .....	3
FCSC 4367 Internship .....	3
FCSC 4390 Family Resource Mgt .....	3
FCSC 4307 Nutr thru Life .....	3
Minor .....	6

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## Fashion Retailing and Merchandising

**Advisors:** Anita Devillier/LeBland McAdams

**FCS Bldg/Ed 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

PHIL 1370 Phil of Knowledge .....	3
Eng Comp .....	6
MATH 1324, 1314 or 1336 .....	3
Lab Sci (core) .....	4
COSC 1371 .....	3
FCSC 1370 Social Aspects of Clothing .....	3
FCSC 1375 Visual Design .....	3
FCSC 1377 Intimate Relations: Marriage and Family .....	3
PEGA .....	2
HLTH 1370 .....	3

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#### Second Year

Eng Lit .....	3
HIST 2373 or 1301 .....	3
Lab Sci (core) .....	4
Mth or Quan Analysis .....	3
POLS 2301 .....	3
ECON 1301 .....	3
FCSC 1328 Clothing Const OR FCSC 2383 Apparel Anal/Eval .....	3
FCSC 1320 Textiles .....	3
FCSC 2379 Visual Merchandising & Display ...	3
FCSC 2385 Intro to Fashion Retailing .....	3
PEGA .....	2

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#### Third Year

Eng Lit or For Lang .....	3
COMM 3340 .....	3
HIST 2374 or 1302 .....	3
ACCT 2301 .....	3
POLS 2302 .....	3
MKTG 3310 .....	3
ARTS 1301 .....	3
FCSC 3300 Consumer Eco .....	3
FCSC 3306 Merchandising Prod .....	3
FCSC 3370 Fashion Promotion & Advertising ..	3
Elective .....	3

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#### Fourth Year

MKTG 3330 .....	3
OFAD 4340 .....	3
BULW 3310 .....	3
Bus Elec 3000-4000 .....	3
FCSC 4301 Senior Seminar .....	3
FCSC 4320 Fashion History .....	3
FCSC 4340 Fashion Prod .....	3
MGMT 3310 .....	3
FCSC 4390 Family Resource Mgt .....	3
FCSC 4367 Internship .....	3

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## Interior Design

**Advisors:** Sarajane Eisen

**FCS Bldg**

The Interior Design specialization provides professional training for a wide range of design problems extending from personal to public environments.

### Suggested Program of Study

#### First Year

Eng Comp .....	6
MATH 1314 .....	3
FCSC 1375 Visual Design .....	3
FCSC 1377 Intimate Relationships: Marriage and the Family .....	3
ARTS 1316 Drawing I .....	3
PHIL 1370 (Core) .....	3
FCSC 1376 Arch. Graphics .....	3
FCSC 2375 Hist Arch & Int Des I .....	3
ARTS 1301 (Core) .....	3
PEGA .....	2
HLTH 1370 .....	3

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#### Second Year

Eng Lit .....	3
Lit or For Lang .....	3
POLS 2301-2302 .....	6
Math or Quan Analysis .....	3
FCSC 1320 Textiles .....	3
FCSC 2381 Hist Arch & Int Des II .....	3
FCSC 2387 Intro to Interior Design .....	3
PHYS 1407 .....	4
ARTS 1303 Art History Survey I .....	3
PEGA .....	2

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#### Third Year

ACCT 2301 Prin Accounting .....	3
HIST 2373-2374 .....	6
Lab Science (core) .....	4
FCSC 3307 Comp Interior Design .....	3
FCSC 3350 Int Design Studio I - Res Design ...	3
ARTS 1304 Art History Survey II .....	3
FCSC 3300 Consumer Eco .....	3
FCS 3327 Treatments of Interior Design .....	3
Soc Sci .....	3
ARTS 3313 .....	3

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#### Fourth Year

FCSC 3305 Interior Design Studio II Commercial Interiors .....	3
FCSC 4305 Interior Design Studio III Advanced Interior Design/ Bus Pract/Proc .....	3
FCSC 4344 CAD .....	3
ARTS 1312 Design II .....	3
Art Elec. Hands on .....	3
COMM 3340 .....	3
FCSC 4301 Senior Seminar .....	3
Focus of Interest (Bus/Psy/Merch) .....	6
FCSC 4330 Kitchen Des & Equip .....	3
FCSC 4367 Internship .....	3

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# Hospitality Management

**Advisor: Molly Dahm**

**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.

The Associate of Applied Science Degree in Restaurant/Institutional Food Management is available through the Lamar University Institute of Technology. Applications can be made in the Advisement Center in the Cecil Beeson Building. Refer to the Lamar University Institute of Technology catalog for a listing of course requirements for the two-year Associate of Applied Science Degree program.

## Suggested Program of Study

### First Year

Eng Comp .....	6
MATH 1314 .....	3
Lab Sci (core) .....	8
PHIL 1370 .....	3
FCSC 1315 Intro to Food Science .....	3
FCSC 1371 Public Hlth & Safety Mgt .....	3
FCSC 1372 Intro to Hosp Industry .....	3
HLTH 1370 .....	3
PEGA .....	2

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### Second Year

Eng Lit .....	3
ECON 1301 Prin. & Policies .....	3
POLS 2301-2302 .....	6
ACCT 2301 .....	3
FCSC 1377 Intimate Relationships:	
Marriage and Family .....	3
FCSC 2324 Commercial Food Prod I .....	3
FCSC 1374 Lodging and Property Mgt .....	3
FCSC 2371 Quantity Food Serv Sys Mgmt .....	3
FCSC 2374 Hospitality Practicum .....	3
FCSC 2377 Facilities Layout & Des .....	3
PEGA .....	2

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### Third Year

Eng Lit OR Foreign Lang .....	3
American History .....	6
Math or Quan Analysis .....	3
FCSC 3300 Consumer Eco .....	3
COMM 1315 or 3340 .....	3
FCSC 2373 Menu and Service Mgt .....	3
FCSC 2376 Conven, Cater, Meeting Mgt .....	3
FCSC 2370 Bev Mgt & Wine Apprec .....	3
FCSC Hospitality Electives .....	6

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### Fourth Year

FCSC 3304 Travel & Tourism .....	3
FCSC 3360 Publ/ Institu Facility Mgt .....	3
FCSC 4357 Operational Anal, Comp App .....	3
FCSC 4367 Internship .....	3
FCSC 4301 Senior Seminar .....	3
MGMT 3330 Human Resources Management .....	3
FCSC 3301 OR BULW Business Law .....	3
FCSC 3315 OR MKTG 3310 .....	3
FCSC 4360 OR MGMT 3310 .....	3
FCSC Hospitality Elective .....	3
Fine Arts (core) .....	3

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## Family and Consumer Sciences Courses (FCSC)

- 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.
- 1315 Introduction to Food Science** 3:2:4  
Study of food science principles and their application in the preparation of foods and food products.
- 1328 Clothing Construction** 3:2:4  
A study of basic construction techniques for making garments of professional quality. Students learn to custom fit commercial patterns.
- 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.
- 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.
- 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.
- 1322 Nutrition in Health and Disease** 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.
- 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.
- 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.
- \*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*
- 2373 Food and Beverage Controls and Systems**  
A Study of the analytical techniques used in controlling resources in the foodservice and lodging industry.  
*Prerequisite: Completion of mathematics requirement.*

- 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.
- 1320 Textiles** 3:3:0  
A study of the physical and chemical properties of textiles. Emphasis production of fabrics and consumer selection of products.
- 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.
- 2377 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.*
- 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.
- 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.
- 2380 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.
- \*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.
- 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.*
- 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.
- 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.
- \*3301 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.

- 3304 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.
- 3305 Interior Design Studio II — Commercial Design** 3:2:4  
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.*
- 3306 Merchandising Products** 3:3:0  
A study of textile and non-textile products. Special emphasis on housewares, furniture, accessories, home furnishings, and appliances.
- 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.*
- 3315 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.
- \*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 Foods Production II** 3:2:4  
Concepts and hands-on skills related to advanced preparation of foods for the commercial environment; emphasis on techniques for cold food preparation and artistic presentation of foods 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.
- 3350 Interior Design Studio I Residential Design** 3:2:4  
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.*



- 3360 Public and Institutional Facilities Management 3:3:0**  
Analysis of public and recreational aspects of the hospitality industry focusing on sports and entertainment. Addresses issues of staffing, customer service, concession operations, legal issues, financial administration, marketing, and promotion.
- 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.
- 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 Diet Therapy I 3:3:0**  
Diets and nutritional support for selected diseases, surgery, and trauma. Diet counseling, 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.  
*Prerequisite: Senior Family and Consumer Sciences major.*
- 4305 Interior Design Studio III: Advanced Interior Design 3:2:4**  
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 Diet Therapy II 3:3:0**  
Continuation of FCSC 4300.  
*Prerequisites: FCSC 1322, 4300, BIOL 2401-2402.*
- \*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.
- 4313 Prenatal and Infant Development 3:3:0**  
Study of physical, social, emotional and cognitive development from conception to age two.
- 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.
- \*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.
- 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.
- 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.
- \*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.
- 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 recordkeeping 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.*
- 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 Internship** 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 Independent Study 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 Home Economics** **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 from the Texas Higher Education Coordinating Board.



***Achieving excellence is the norm for students in the College of Engineering, who may study with professors researching the latest advancements in the engineering and computer science fields.***

## College of Engineering

**Departments:** Chemical Engineering, Civil Engineering, Computer Science, Electrical Engineering, Industrial Engineering, Mathematics and Mechanical Engineering

**Fred M. Young, P.E., Ph.D., Dean**

**2016 Cherry Engineering Bldg.**

**Phone 880-8741**

**Myers L. Foreman, Engineering  
Advisor and Undergraduate Advisor  
for Computer Science**

**2608 Cherry Engineering Bldg.**

**Phone 880-8810**

### Degrees

#### 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.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. 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. English ..... 4 units
2. Mathematics
  - Algebra ..... 2 units
  - Geometry ..... 1 unit
  - Precalculus or Equivalent ..... 1 unit
3. Natural Sciences
  - Chemistry ..... 1 unit
  - Physics ..... 1 unit
4. Foreign Language ..... 1 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 preceding 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 which 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. All electives must be approved by the student's advisor.

The Dean of Engineering may require students to meet the current degree requirements or program standards.

### Engineering Core Program

#### First Semester

Eng Comp .....	3
MATH 2413 Calculus I .....	4
CHEM 1411 Chemistry .....	4
ENGR 1174 Engineering Graphics .....	1
ENGR 1101 Engineering Orientation .....	1
PHIL 1370 Philosophy of Knowledge .....	3
PEGA .....	2

#### Second Semester

Eng Comp .....	3
MATH 2414 Calculus II .....	4
ENGR 1301 Computers .....	3
PHYS 2425 Physics I (3) .....	4
Selected by Major (1) .....	3-4
PEGA .....	2

**Third Semester**

MATH 2415 Calculus III .....	4
ENGR 2374 Thermodynamics .....	3
PHYS 2426 Physics II .....	4
ENGR 2301 Statics .....	3
ENGR 2273 Engineering Economics .....	2
Hist .....	3

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**Fourth Semester**

Selected by major (2) .....	6-9
ENGR 2311 Circuits .....	3
ENGR 2302 Dynamics .....	3
MATH 3401 Diff Equa & Lin Alg .....	4

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**Notes**

- (1) ChE CHEM 1412  
 CE HLTH 1370  
 EE HLTH 1370  
 IE INEN 3300  
 ME HIST 1301
- (2) ChE CHEM 2401, CHEN 3340  
 CE CVEN 2372, Social Science Elective, History Elective  
 EE ELEN 2107, English Literature, Fine Arts  
 IE INEN 3380, INEN 3360  
 ME INEN 3322, CVEN 2372
- (3) Diagnostic Placement Test required

**Engineering Courses (ENGR)**

<b>1101</b>	<b>Introduction to Engineering</b>	<b>1:1:0</b>
	History of engineering, philosophy of engineering practice, the electronic calculator and analysis of the problems of being an engineering student.	
<b>1174</b>	<b>Engineering Graphics I</b>	<b>1:0:3</b>
	Principles of orthographic projection combined with descriptive geometry to solve space problems graphically. Lettering and drafting techniques emphasized.	
<b>1301</b>	<b>Introduction to Computers and Programming</b>	<b>3:3:0</b>
	Flow charting, digital computers, program organization, Quick BASIC, Quick BASIC programming.	
<b>2273</b>	<b>Engineering Economics</b>	<b>2:3:0</b>
	The time value of economic resources, engineering project investment analysis, effect of taxes on engineering project decisions.	
	<i>Prerequisite: MATH 2413.</i>	
<b>2301</b>	<b>Statics</b>	<b>3:3:0</b>
	Statics of particles and rigid bodies. Use is made of basic physics, calculus and vector algebra.	
	<i>Prerequisite: PHYS 2426.</i>	
<b>2302</b>	<b>Dynamics</b>	<b>3:3:0</b>
	Kinematics of rigid bodies, kinetics of rigid bodies, work and energy, impulse and momentum.	
	<i>Prerequisite: ENGR 2301 or equivalent, MATH 2415 or concurrent.</i>	
<b>2311</b>	<b>Circuits I</b>	<b>3:3:0</b>
	Linear network analysis. Fundamental network laws and methods. Transient response. Sinusoidal steady state analysis and response.	
	<i>Prerequisite: MATH 2414, PHYS 2426, ENGR 1301, Eng Composition (six hrs).</i>	
<b>2374</b>	<b>Thermodynamics</b>	<b>3:3:0</b>
	The fundamental laws of thermodynamics; properties of systems solids, gases and liquids and thermodynamic tables.	
	<i>Prerequisite: PHYS 2425; MATH 2415 or concurrent.</i>	
<b>2376</b>	<b>Career Development I</b>	<b>3:3:0</b>
	Comprehensive treatment of career-related special assignments and projects.	
	<i>Prerequisite: Approval of academic dean.</i>	
<b>2377</b>	<b>Career Development II</b>	<b>3:3:0</b>
	Comprehensive treatment of career-related special assignments and projects.	



*Prerequisite: ENGR 2376.*

- |                         |   |                |
|-------------------------|---|----------------|
| <b>3350</b>             | <b>Computer Aided Design</b>  | <b>3:3:0</b>   |
|                         | 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>  |                |
| <b>3360</b>             | <b>Career Development III</b>   | <b>3:3:0</b>   |
|                         | Comprehensive treatment of career-related special assignments and projects.   |                |
|                         | <i>Prerequisite: ENGR 2377.</i>   |                |
| <b>3370</b>             | <b>Career Development IV</b>  | <b>3:3:0</b>   |
|                         | Comprehensive treatment of career-related special assignments and projects.   |                |
|                         | <i>Prerequisite: ENGR 3360.</i>   |                |
| <b>4101, 4201, 4301</b> | <b>Special Topics</b>   | <b>1-4:A:0</b> |
|                         | 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.  |                |
| <b>4360</b>             | <b>Career Development V</b>   | <b>3:3:0</b>   |
|                         | Comprehensive treatment of career-related special assignments and projects.   |                |
|                         | <i>Prerequisite: ENGR 3370.</i>   |                |

## Department of Computer Science

**Department Chair:** Lawrence Osborne

**201 Maes Building**  
**Phone 880-8775**

**Professors:** Koh, Read

**Associate Professors:** Doerschuk, Harvill, Osborne, Zhang

**Assistant Professor:** Foreman

## Computing Laboratories

The Department has four laboratories as well as two rooms of terminals remotely attached to the campus mainframe computers (2 DEC Alpha machines running OPENVMS and UNIX) housed in the Cherry Building. The labs operate on Ethernet networks, and the equipment is available to all students on campus. Included in the equipment are 60 Pentiums, 4 multimedia Pentium Pros, X-Terminals, a network of SUN workstations, and 2 Silicon Graphics Indy workstations. The Pentiums are attached to an NT server, and two switches provide 10 Megabit/second transmissions to each desktop and to the server from a 100 Megabit/second FDDI campus backbone. Direct access to the Internet and the World Wide Web is available from nearly all of the machines. Equipment and facilities offer students experience using OPENVMS, UNIX and Windows 95 as well as several programming languages. A rich variety of application software packages such as Maple and Matlab are located on our servers for student use in classes and research.

## Cooperative Education Program

The Department has had long standing CO-OP programs with many companies and industries, both in southeast Texas and around the state. This has proved to be an excellent program both for the students and the companies involved. The minimum requirements to be considered for a CO-OP position are a GPA of at least 2.75, 30 hours college credit, and 9 hours credit in Computer Science.

Some cooperative employers are American Petrofina, Southwestern Bell, Dow Chemical, DuPont, Houston Lighting and Power, NASA, Texas Instruments, IBM, Texaco Research, and Digital Switch. 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, compiler theory, applications of computer science and computer architecture. The program requires 42 hours in computer science, 20 hours in mathematics, 12 hours in laboratory science, 6 hours in free electives, 6 hours in advanced electives as well as the general University requirements for a bachelor's degree.

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 specialization.

Students may also work on a B.S. in both Computer Science and Electrical Engineering. These students must take the following course list for the 12 restricted hours and the 9 elective hours: COSC 3306, COSC 4302, COSC 4307, COSC 4310, ELEN 4386, ELEN 4387, ELEN 4391 or ELEN 4392. The mathematics requirement is also slightly modified for the double degree. 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.

## **Entrance Requirements and Academic Standards of the Department of Computer Science**

The entrance requirements and academic standards of the computer science department are the same as the College of Engineering with the following exceptions:

1. A student must have an overall GPA of at least 2.25 in all courses that count towards the degree to graduate.
2. A single "D" grade in a non-major course may be accepted at the discretion of the department chair.
3. Pursuant to university policy, full time students must take English Composition and physical activity 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 are completed. Students are expected to have taken mathematics at least through Precalculus or equivalent in high school.

## **Requirements for a Minor in Computer Science**

COSC 1373, COSC 1374, COSC 2371, COSC 2372, COSC 3340, and 6 additional hours taken from 3000 and/or 4000 level courses.

# Bachelor of Science – Computer Science

Suggested Program of Study: 129 total hours

First Year	
First Semester	Second Semester
COSC 1373 Principles of CS I ..... 3	COSC 1374 Principles of CS II ..... 3
Eng Comp I ..... 3	Eng Comp II ..... 3
MATH 2305 Discrete Structures ..... 3	MATH 2413 Calculus & Anal Geo I ..... 4
COMMElective ..... 3	Fine Arts ..... 3
PHIL 1370 ..... 3	Social Science ..... 3
PEGA ..... 2	PEGA ..... 2
17	18

Second Year	
First Semester	Second Semester
COSC 2371 Data Struct/Algorithms ..... 3	COSC 2372 Computer Org/Assembly ..... 3
MATH 2414 Calculus & Anal Geo II ..... 4	MATH 1342/3370 Probability/Stat ..... 3
PHYS 1401 or 2424 ..... 4	PHYS 1402 or 2426 ..... 4
Eng Lit ..... 3	Eng Lit/For Lang ..... 3
HIST 1301 Amer Hist 1763-1877 ..... 3	HIST 1301 Amer Hist 1877-Present ..... 3
17	16

Third Year	
First Semester	Second Semester
COSC 3304 Obj-Or Design/Interface ..... 3	COSC 3302/COSC 3308 ..... 3
MATH 2318 Linear Algebra ..... 3	COSC 3340 File Structures ..... 3
COSC/CPSC Elective ..... 3	Math/Science Elective ..... 3
Elective ..... 3	HLTH 1370 Health and Wellness ..... 3
POLS 2301 Intro Amer Gov I ..... 3	POLS 2302 Intro Amer Gov II ..... 3
15	15

Fourth Year	
First Semester	Second Semester
COSC 4302 Operating Systems ..... 3	COSC 4307/CPSC 4340/CPSC 4360 ..... 3
COSC 4310/CPSC 3320 ..... 3	COSC/CPSC/ELEN Elective ..... 3
COSC/CPSC Elective ..... 3	COSC/CPSC/ELEN Elective ..... 3
Elective ..... 3	Advanced Elective ..... 3
Lab Science ..... 4	Advanced Elective ..... 3
16	15

## Comments:

1. At least 6 of the 12 hours of electives must be upper level courses (COSC or CPSC 3000-4000). The student is encouraged to use these electives to specialize in a computer related area. COSC/CPSC courses may be taken as academic electives.
2. COSC/CPSC/ELEN electives must be chosen from a list of designated academic electives that is available from the Computer Science Department and the College of Engineering Office of Advisement.

3. Entering students with no computer background should begin by taking COSC 1371 as an academic elective.
4. The four hours of lab science may be chosen from the following: CHEM 1411 or 1412, BIOL 1406 or 1407, or GEOL 1403 or 1404.
5. The current Fine Arts electives are ARTS 1301, DANC 1370, HUMA 1315 and THEA 1310. The current Social Science electives are ECON 1301, PSYC 2301, SOCI 1301, ANTH 2346, or both ECON 2302 and ECON 2301.
6. The Math/Science Elective may be MATH 2415, any of the lab science courses listed in (4) above or any more advanced lab science or math course approved by the department chair.
7. The current communication electives are COMM 1315, 2373, 2335, 3310 and 3340.

## **Bachelor of Science – Computer Information Science Program**

The Computer Information Science program has an overall emphasis on information networking. An interplay of knowledge from areas such as distributed computing, software engineering, expert systems, information retrieval and multimedia display technology define the information networking concept. Information networks are becoming an integral and strategic component of such industries as petrochemical and transportation, space technology, education, banking and finance, medical and 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 39 hours in computer science and computer and information sciences, 15 hours in psychology, sociology and speech, 13 hours in mathematics, 6 hours in business, 8 hours in laboratory science and 9 hours of electives, as well as the general bachelor's degree requirements.

Graduates of this program will be prepared to respond to the varied and changing needs of an information society.

### **Requirements for a Minor in Computer Information Science**

COSC 1373, COSC 1374, COSC 2371, COSC 2372, COSC 3340, CPSC 4340, and CPSC 4360.

### **Requirements for a Teacher's Certificate in Computer Information Science**

Computer Information Science—Opt. I Specialization: (27 semester hours) COSC 1373, COSC 1374, COSC 2371, 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 1373, COSC 1374, COSC 2371, COSC 2372, COSC 3304, COSC 3308, COSC 3340, 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.

**B.S. Computer Information Science****Suggested Program of Study: 127 total hours****First Year****First Semester**

COSC 1373 Principles of CS I .....	3
Eng Comp I .....	3
MATH 2305 Discrete Structures .....	3
PHIL 1370 Phil of Knowledge .....	3
PEGA .....	2

14

**Second Semester**

COSC 1374 Principles of CS II .....	3
Eng Comp II .....	3
MATH 2413 Calculus & Anal Geo I .....	4
Comm Elective .....	3
PEGA .....	2

15

**Second Year****First Semester**

COSC 2371 Data Struct/Algorithms .....	3
MATH 1342 Probability/Stat .....	3
HIST 1301 Amer History .....	3
Eng Lit .....	3
Lab Science .....	4

16

**Second Semester**

COSC 2372 Computer Org/Assembly .....	3
MATH 2318 Linear Algebra .....	3
HIST 1301 American History .....	3
Eng Lit/For Lang .....	3
Lab Science .....	4

16

**Third Year****First Semester**

COSC 3304 Obj-Or Design/Interface .....	3
Social Sci Elective .....	3
POLS 2301 .....	3
Comm/Mgmt Elective .....	3
Fine Arts elective .....	3
Elective .....	3

18

**Second Semester**

COSC 3340 File Structures .....	3
CPSC 3320 .....	3
POLS 2302 .....	3
ACCT 2301 Cost Accounting .....	3
HLTH 1370 .....	3

15

**Fourth Year****First Semester**

CPSC 4340/CPSC 4360 .....	3
CPSC 4330 Multimedia Processing .....	3
Comm/Mgmt Elective .....	3
Comm/Mgmt Elective .....	3
Elective .....	3

15

**Second Semester**

CPSC 435/4370 .....	3
COSC/CPSC Elective .....	3
COSC/CPSC Elective .....	3
Comm/Mgmt Elective .....	3
COSC 4302 Intro Operating Systems .....	3
Elective .....	3

15

**Comments:**

1. Allowed courses are a) any course listed as a social science elective; b) any ACCT, BULW, FINC, or MKTG course; c) any upper level course in ECON, MGMT, PSYC, SOCI, or COMM.
2. Entering students with no computer background should begin by taking COSC 1371 as an academic elective.

## 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 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 in four academic years including six summer sessions. The course list (161 total hours) and suggested course sequence follows.

### Bachelor of Science in Computer Science and Bachelor of Science in Electrical Engineering

#### First Year

##### Fall Semester

ENGR 1101 Intro to Engineering .....	1
ENGR 1174 Engineering Graphics I .....	1
COSC 1373 Principles of CS I .....	3
Eng Comp .....	3
MATH 2413 Calculus & Anal Geo I .....	4
HLTH 1370 Health & Wellness .....	3
PEGA .....	2
	<hr/>
	17

##### Spring Semester

COSC 1374 Principles of CS II .....	3
PHYS 2425 Calculus Based Physics I .....	4
Eng Comp .....	3
MATH 2414 Calculus & Anal Geo II .....	4
PEGA .....	2
	<hr/>
	16

##### Summer Semester I

CHEM 1411 General Chemistry .....	4
ENGR 2301 Statics .....	3
	<hr/>
	7

##### Summer Semester II

Eng Lit/For Lang .....	3
	<hr/>
	3

#### Second Year

##### Fall Semester

ENGR 2374 Thermodynamics .....	3
ENGR 2273 Engineering Economics .....	2
ELEN 3331 Logic Design .....	3
PHYS 2426 Calculus Based Phys II .....	4
HIST 1301 .....	3
	<hr/>
	15

##### Spring Semester

ENGR 2311 Circuits I .....	3
ENGR 2302 Dynamics .....	3
ELEN 2107 Circuits Lab .....	1
MATH 2415 Calculus III .....	4
COSC 2371 Data Structures .....	3
HIST 1301 .....	3
	<hr/>
	17

##### Summer Semester I

COSC Elective .....	3
ELEN 3312 Circuits II .....	3
	<hr/>
	6

##### Summer Semester II

PHYS 3350 Waves & Modern Physics .....	3
COSC 3304 User Interfaces .....	3
	<hr/>
	6

Third Year	
Fall Semester	Spring Semester
ELEN 3108 Electronics Lab ..... 1	ELEN 3109 Elec Machinery Lab ..... 1
ELEN 3321 Electronics I ..... 3	ELEN 3341 Elec Machinery/Trans ..... 3
ELEN 3381 Electrical Analysis ..... 3	ELEN 3201 Digital Lab ..... 2
MATH 3401 Diff Eq & Linear Alg ..... 4	ELEN 3313 Circuit Design ..... 3
COSC 4302 Intro Operating Systems ..... 3	ELEN 3322 Electronics II ..... 3
Eng Lit ..... 3	COSC 4310 Computer Architecture ..... 3
17	15
Summer Semester I	Summer Semester II
Social Science Elective ..... 3	PHIL 1370 ..... 3
Fine Arts ..... 3	POLS 2301 ..... 3
6	6
Fourth Year	
Fall Semester	Spring Semester
ELEN 4101 Eng Seminar II ..... 1	ELEN 4102 Elec Eng Seminar II ..... 1
ELEN 4206 Projects Lab ..... 2	ELEN 4207 Projects Lab ..... 2
ELEN 4351 Control Engineering ..... 3	ELEN 4387 Microcomputers II ..... 3
ELEN 439X Comp Aided Design Elective* ..... 3	ELEN Elective ..... 3
ELEN 4386 Microcomputers I ..... 3	ELEN 3371 Electromagnetics I ..... 3
COSC 4307 Compiler Writing ..... 3	POLS 2302 ..... 3
15	15

Total Hours 161

\* one of ELEN 4391, 4392, etc.

## Computer Science Courses (COSC)

- 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. Additional programming assignments in BASIC. (This course may not be taken as a COSC/CPSC elective.)
- 1372 Microcomputers and Society** 3:3:0  
Microcomputers and Society: The history of programming, the use of computers for self-expression in business, science and art, legal and ethical issues confronting people because of computer technology, the structure of computer hardware, representation of information in a computer and the characteristics of programming languages are studied. A programming language will be introduced that allows students to experiment in developing their own applications. Graphical user interfaces will be used and object-oriented concepts will be introduced. The course cannot 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 block structured language such as C++.  
*Corequisite: MATH 2305.*
- 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.*

- 2370 Scientific Programming in FORTRAN** 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 2318.
- 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 1374 and MATH 2413.
- 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 1374.
- 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.
- 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 1374, 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 and X-Windows will be treated. In addition, interfaces in communications and alternative architectures will be discussed.  
*Prerequisites:* COSC 1374, COSC 2371.
- 3306 UNIX/C++** 3:3:0  
Design and implementation details, such as algorithms and data structures, plus student programming of working: assemblers, linkers and loaders and macro processors. A brief-but-not-superficial overview of compilers and operating systems. Programming in C on a UNIX environment.  
*Prerequisite:* COSC 1374 or 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 2371.
- 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.
- 3324 Instructional Courseware** 3:3:0  
Study and analysis of the use of the computer as an aid in instruction. Topics include the design and review of techniques in computer-assisted instruction (CAI), current trends in CAI technology, and lesson development in an authoring language. Programming in BASIC and LOGO.  
*Prerequisites:* COSC 1373 or COSC 1371 and a programming course.
- 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 1373 or COSC 1371 or 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 2371 and 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.
- 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, COSC 2372.*
- 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 2372, COSC 2371 and MATH 2318.*
- 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 FORTRAN and other programming languages for simulation (GPSS, SIMSCRIPT, SIMULA).  
*Prerequisite: COSC 2371, MATH 2413 and MATH 1342 or MATH 3370.*
- 4310 Introduction to Computer Architecture** **3:3:0**  
 The macro structure and instruction set of computer systems. Survey of characteristic architectures of central processors and systems. Topics selected from mini-micro-mainframe and highly parallel computers. Microprogrammed control; I/O control; associative memories; characteristics of storage devices; paging; multi-processors; terminals.  
*Prerequisite: ELEN 3331 or permission of instructor*
- 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 2371, MATH 2318 and MATH 2414.*

## Computer Information Sciences Courses (CPSC)

- 2371 Electronic Documents on the Internet** **3:3:0**  
 Hypermedia is the nonlinear viewing and presentation of information (text, images, sound, animation). Current hardware and software used in the electronic production of documents containing multiple fonts, mathematical equations, and hypermedia. Authoring systems, user interfaces, and navigation will be discussed.
- 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 2372.*
- 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 2371, MATH 2413*
- 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 2371.
- 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 3340, COSC 2371 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. Programming in Ada.  
*Prerequisite:* COSC 2371 or COSC 3321 and senior standing.
- 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. Programming in LISP and PROLOG.  
*Prerequisite:* COSC 2371.

## Department of Chemical Engineering

Program accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

**Department Chair:** Jack R. Hopper

**101 Lucas, Phone 880-8785**

**Professors:** Hopper, Yaws, Li, Chen, Ho

**Adjunct Professor:** Barry, Keville, Saleh, Beath

**Research Professor:** Cocke

**Laboratory Technician:** Stauffer

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 steel 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, 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.

## Bachelor of Science—Chemical Engineering

### Suggested Program of Study

#### First and Second Year (See Engineering Core Program)

##### Third Year+

CHEN 3330 Thermo II .....	3-0-3	CHEN 3320 Heat Transfer .....	3-0-3
CHEN 3311 Mom Trans .....	3-0-3	CHEN 4410 Kinetics .....	3-3-4
CHEN 4370 Computer .....	3-0-3	POLS 2302 .....	3-0-3
POLS 2301 .....	3-0-3	CHEM 4312 Physical .....	3-0-3
CHEM 3411 Organic I .....	3-4-4	CHEM 4312 Organic II .....	3-4-4
HLTH 1370 .....	3-0-3	Soc Sci Elect .....	3-0-3
18-4-19		18-7-20	

##### Fourth Year

CHEN 4420 Mass Transfer .....	3-3-4	CHEN 4330 Proc Cont .....	3-0-3
*CHEN 4310 Lab .....	1-6-3	CHEM elective (1) .....	1-4-2
CHEN 4360 Design I .....	3-0-3	CHEN 4340 Design II .....	1-6-3
*CHEN 4140 Seminar .....	1-0-1	CHEN 4350 Adv Anal .....	3-0-3
Fine Arts .....	3-0-3	Am Hist .....	3-0-3
Eng Lit .....	3-0-3	CHEN 4150 Proc Lab .....	0-3-1
Amer His .....	3-0-3	Eng-Lit .....	3-0-3
18-9-20		14-13-18	

(1) Approval of Department Head

+ Completion of ChE & Chem courses required before registration for Fourth Year ChE courses

\*Extensive Oral Communications Included

## Chemical Engineering Courses (CHEN)

<b>3311 Momentum Transfer</b>	<b>3:3:0</b>
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: ENGR 2374, CHEN 3340.</i>	
<b>3320 Heat Transfer</b>	<b>3:3:0</b>
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>	
<b>3330 Thermodynamics II</b>	<b>3:3:0</b>
Application of the First and Second Laws to chemical processes. Thermodynamic properties of pure fluids and mixtures. Physical equilibrium.	
<i>Prerequisite: CHEN 3340, ENGR 2374, CHEM 3411 or concurrent, CHEM 2401 or concurrent.</i>	
<b>3340 Process Analysis</b>	<b>3:3:0</b>
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: ENGR 2374 or concurrent.</i>	
<b>4140 Seminar</b>	<b>1:1:0</b>
Oral and written presentation of selected topics in chemical engineering from recent technical publications.	
<i>Prerequisite: Senior standing in Chemical Engineering.</i>	
<b>4150 Process Control Laboratory</b>	<b>0:3:1</b>
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.	

<b>4310</b>	<b>Laboratory I</b>	<b>3:1:6</b>
	Experiments in heat transfer, mass transfer, fluid flow, reaction kinetics and thermodynamics. <i>Prerequisite: CHEN 4420 or concurrent.</i>	
<b>4330</b>	<b>Process Control</b>	<b>3:3:0</b>
	Selection of equipment to measure and control process variable. Analysis of process response to variations in process parameters. <i>Prerequisite: CHEN 4370, 4410, 4420, MATH 3401.</i>	
<b>4340</b>	<b>Plant Design II</b>	<b>3:1:6</b>
	A continuation of CHEN 4360, with emphasis on a major design project. <i>Prerequisite: CHEN 4360.</i>	
<b>4350</b>	<b>Advanced Analysis</b>	<b>3:3:0</b>
	Development of mathematical equations for chemical engineering applications. Solution of ordinary and partial differential equations. <i>Prerequisite: CHEN 3330, 3311, 3320; 4570, 4410, MATH 3401.</i>	
<b>4360</b>	<b>Plant Design I</b>	<b>3:3:0</b>
	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>	
<b>4370</b>	<b>Computer Applications</b>	<b>3:3:0</b>
	Use of the digital computer in performing process calculations. Advanced techniques of FORTRAN programming. <i>Prerequisite: ENGR 1301, CHEN 3340, CHEN 3330 or concurrent.</i>	
<b>4410</b>	<b>Reaction Kinetics</b>	<b>4:3:3</b>
	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, CHEM 2401, CHEN 3320 or concurrent, CHEN 3330 or concurrent, CHEM 3412 or concurrent, CHEM 4312 or concurrent.</i>	
<b>4420</b>	<b>Mass Transfer</b>	<b>4:3:3</b>
	Principles of diffusion. Simultaneous mass, energy and momentum transfer. Analysis of absorption, extraction and distillation processes. <i>Prerequisite: CHEN 3330, 3320, CHEM 2401, 3411, 3412, 4312.</i>	

## Department of Civil Engineering

Program accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

**Department Chair:** Enno Koehn

**2010 Cherry Building, Phone 880-8759**

**Professors:** Koehn, Morgan, Kerkes

**Research Professor:** Mantz

**Assistant Professors:** Fang, Diaz

**Laboratory Technician:** McClelland

**Marine Research Technician:** Dunford

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 trained people.

The civil engineering program is designed with a broad base to prepare men and women for careers in all phases of civil engineering and to enable them to perform other managerial and technical functions which 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 geotechnical, 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 and the David Bernsen Endowed Scholarship in 1997. These funds provide scholarships for qualified students. Application forms are available in the civil engineering department office.

## 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 and Second Years (See Engineering Core Program) (b)

First Semester	Third Year	Second Semester
CVEN 2270 Surveying ..... 2		CVEN 3200 Materials Engineering ..... 2
CVEN 3310 Environmental Science ..... 3		CVEN 3360 Hydrology of the Environment .... 3
CVEN 3340 Structural Mechanics ..... 3		CVEN 3370 Environmental Eng Systems I ..... 3
CVEN 3350 Hydraulics I ..... 3		CVEN 3390 Geotechnical Engineering ..... 3
Elective Statistics (a) ..... 3		CVEN 4390 Structural Steel Design ..... 3
Pol Sci ..... 3		Pol Sci ..... 3

## Fourth Year

## First Semester

CVEN 4212 Civil Engr Syst Design Project .....	2
CVEN 4320 Project Management Engineering .....	3
CVEN 4340 Foundation Engineering .....	3
CVEN 4380 Reinforced Concrete Design .....	3
CVEN Elective(a) .....	3
Elective Literature .....	3

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## Second Semester

CVEN 4110 Seminar .....	1
CVEN 4290 Civil Engineering Systems II .....	2
CVEN 4350 Hydraulics II .....	3
CVEN Elective(a) .....	3
Elective Science(a) .....	4
Elective Fine Arts(a) .....	3
Elective Literature(c) .....	3

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## Notes:

(a) All electives must be approved by the Chair of the C.E. Dept. C.E. Electives must include design content of an amount to satisfy ABET criteria.

(b) It is vital that CVEN 2372 and ENGR 2302 be completed before the start of the third year.

(c) One year of foreign language in high school or three semester hours of foreign language may be substituted for one semester of English Literature.

## Civil Engineering Courses (CVEN)

<b>2270</b>	<b>Surveying</b>	<b>2:1:3</b>
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 high-way curves including vertical and horizontal alignments. Transition spirals. Error Analysis. Computer utilized in calculations.		
<i>Prerequisite:</i> ENGR 1301, 1174.		
<i>Corequisite:</i> MATH 2312.		
<b>2372</b>	<b>Mechanics of Solids</b>	<b>3:3:0</b>
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.		
<i>Prerequisite:</i> ENGR 2301.		
<b>3200</b>	<b>Materials Engineering</b>	<b>2:0:6</b>
Principles/techniques for investigating properties and behavior of engineering members and materials using experimental methods. Consideration of design parameters.		
<i>Prerequisite:</i> CVEN 2372.		
<b>3290</b>	<b>Civil Engineering Systems I</b>	<b>2:2:0</b>
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.		
<i>Prerequisite:</i> MATH 2415.		
<i>Corequisite:</i> CVEN 2372.		
<b>3310</b>	<b>Environmental Science</b>	<b>3:2:3</b>
Introduction to the hydrologic cycle and the chemistry and microbiology of the natural aquatic environment. Emphasis is on the physical, chemical and biological aspects of water and waste water systems in relation to man's environment. Laboratory work is in the physical, chemical and biological analysis of water and waste water.		
<i>Prerequisite:</i> CHEM 1411.		
<b>3340</b>	<b>Structural Mechanics</b>	<b>3:2:3</b>
Analysis of loadings for bridges and buildings. Effects of moving loads. Influence lines. Shear and moment diagrams. Analysis of indeterminate structures. Introduction to structural design. Investigation of frames, girders and bents.		
<i>Corequisite:</i> MATH 3401.		
<i>Prerequisite:</i> 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: ENGR 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: ENGR 2302.*
- 3370 Environmental Engineering Systems I** 3:3:0  
General survey of environmental engineering covering water supply and sanitary sewerage systems. Design of water distribution and wastewater collection systems.  
*Prerequisite: CVEN 3310, CVEN 3350.*
- 3390 Geotechnical Engineering** 3:2:3  
Basic principles of soil behavior under load. Soil properties and classification. Study of hydraulics as applied to soil mechanics.  
*Prerequisite: ENGR 1174. Corequisite: CVEN 2372, ENGR 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.  
*Prerequisite: CVEN 3290 or Statistics. Corequisite: CVEN 3340, CVEN 3370, CVEN 3390.*
- 4300 Structural Analysis/Graphical Design** 3:3:0  
Basic principles of structural analysis and design based upon the requirements of equilibrium and continuity. A consideration of graphical computer aided techniques to describe various systems or a study of matrix methods and the application of strain energy, slope deflection, and moment distribution procedures for the 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 Transportation Engineering** 3:3:0  
Design of highway pavements. History and development of transportation facilities. Drainage requirements. Fundamentals of highway location, design, construction, and maintenance. Course title and description may vary when taught as a CE Elective.  
*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 prestressed 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

Program accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

**Department Chair:** Bernard J. Maxum

**2006 Cherry Building, Phone 880-8746**

**Professors:** Bean, Drazenovic, Maxum

**Associate Professors:** Carlin, Reddy

**Assistant Professor:** Porter

**Visiting Professor:** Watt

**Laboratory Technician:** Ingram

From the design of microprocessors smaller than the pupil of an eye to major power distribution systems, the electrical engineer plays an ever-increasing role in today's society. Career opportunities open to electrical engineers encompass a diverse range of areas including advanced computer design, microprocessor-based instrumentation, computer-aided diagnostic and information systems, automatic control systems, and communication systems.

Lamar University's electrical engineering program prepares graduates for a wide range of opportunities by providing a curriculum strongly based in mathematics and science. Electrical engineering content is presented through diverse coursework in all of the major electrical engineering areas including electronics, digital logic design, power systems, control systems and communications. An alternative curriculum with a concentration in Computer Engineering has also been developed specifically to prepare the graduating engineer for a career in computer architecture and software design. The interested student can also participate in a variety of faculty research programs in the areas of communications, instrumentation and signal processing.

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 five semesters.



## Bachelor of Science - Electrical Engineering

### Suggested Program of Study

First and Second Year (See Engineering Core Program)

#### Third Year

##### First Semester

##### Second Semester

ELEN 3108 Electronics Lab .....	1
ELEN 3312 Circuits II .....	3
ELEN 3321 Electronics I .....	3
ELEN 3381 Electrical Analysis .....	3
ELEN 3331 Log Dsgn of Switch Sys .....	3
PHYS 3350 Modern Physics .....	3

ELEN 3109 Electric Machinery Lab .....	1
ELEN 3201 Digital Lab .....	2
ELEN 3313 Circuit Design .....	3
ELEN 3341 Electrical Mach/Transf .....	3
ELEN 3371 Electromagnetics I .....	3
ELEN 3322 Electronics II .....	3

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#### Fourth Year

##### First Semester

##### Second Semester

ELEN 4101 Elect Engr Seminar I .....	1
ELEN 4206 Projects Lab .....	2
ELEN 4351 Control Engr .....	3
ELEN 439X Comp Aided EE Dsgn Elective* ...	3
ELEN Elective** .....	3
Soc Elective .....	3
POLS 2301 .....	3

ELEN 4102 Elect Engr Seminar II .....	1
ELEN 4207 Projects Lab .....	2
ELEN Electives (select 2)** .....	6
Hist .....	3
POLS 2302 .....	3

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\* One of ELEN 4391, ELEN 4392, . . . is to be selected. A second ELEN439X course taken would constitute an ELEN elective.

\*\* Total elective design content must be a minimum of three hours.

## Bachelor of Science - Electrical Engineering

### Suggested Program of Study with a Path in Computer Engineering

The student choosing this path must consult an EE advisor as early as possible in his or her program.

## Electrical Engineering Courses (ELEN)

<b>2107</b>	<b>Circuits Laboratory</b>	<b>1:0:3</b>
	Experience in the use of elementary electrical equipment and elements, including the oscilloscope. Corequisite: ENGR 2311.	
<b>2300</b>	<b>Analog/Digital Circuits and Logic</b>	<b>3:2.5:1</b>
	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: MATH2413 or equivalent.	
<b>3108</b>	<b>Electronics Laboratory</b>	<b>1:0:3</b>
	Design of power supplies and amplifiers using diodes, transistors, thyristors and linear integrated circuits. Prerequisite: ELEN 2107. Corequisite: ELEN 3321.	

- 3109 Electric Machinery Laboratory** 1:0:3  
Three phase circuits, DC and AC motors and generators; transformers.  
*Prerequisite:* ELEN 2107.  
*Corequisite:* ELEN 3341.
- 3201 Digital Laboratory** 2:1:3  
Testing and design of digital circuits; introduction to small computer hardware and software.  
*Prerequisite:* ELEN 2107 or ELEN 3331 and ELEN 3108.
- 3381 Electrical Analysis** 3:3:0  
Application of the digital computer to analysis and design of electrical systems using numerical methods.  
*Prerequisite:* MATH 3401, ENGR 2311, 1301.
- 3331 Logical Design of Switching Systems** 3:3:0  
Switching algebra. Formulate and manipulate switching functions. Combinational networks. Flip-flops. Sequential networks.  
*Prerequisite:* Junior standing.
- 3312 Circuits II** 3:3:0  
Power calculations, polyphase circuits. Frequency response, resonance, magnetically coupled circuits, two port networks. Fourier series, Fourier and Laplace transform application.  
*Prerequisite:* ENGR 2311.  
*Corequisite:* MATH 3401.
- 3313 Circuit Design** 3:3:0  
Circuit design concepts using frequency domain. Pole-zero characterization of system response. Synthesis of passive and active networks.  
*Prerequisite:* ELEN 3312.
- 3321 Electronics I** 3:3:0  
Design and analysis of circuits using diodes, transistors, and linear and digital integrated circuits.  
*Prerequisite:* ENGR 2311.
- 3341 Electric Machinery/Transformers** 3:3:0  
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.  
*Prerequisite:* ELEN 3312.
- 3371 Electromagnetics I** 3:3:0  
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.  
*Prerequisite:* MATH 3401, PHYS 2426, ENGR 2311.  
*Corequisite or prerequisite:* ELEN 3341.
- 4101 Electrical Engineering Seminar I** 1:1:0  
A study of the literature of electrical and related engineering fields; preparation and presentation of papers on electrical subjects.  
*Pre or Corequisite:* ELEN 4206 or 4207.
- 4102 Electrical Engineering Seminar II** 1:1:0  
Preparation, presentation and discussion of material on the engineering profession, the interface between technology and society, and new areas of engineering involvement.  
*Pre or Corequisite:* ELEN 4206 or 4207.
- 4206 Senior Projects Design** 2:1:5  
Senior design projects with hardware implementation and testing. Preparation of project proposals, formal report and presentation.  
*Prerequisite:* ELEN 2107, 3108, 3109, 3201, 3322.
- 4207 Senior Projects Design** 2:1:5  
Senior design projects with hardware implementation and testing. Preparation of project proposals, formal report and presentation.  
*Prerequisite:* ELEN 2107, 3108, 3109, 3201, 3322.
- 4362 Communications I** 3:3:0  
Principles of modulation, random signal theory and network analysis; basic information theory, analysis of noise.

- 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.*
- 4386 Microcomputer I** 3:2.5:1  
Introduction to assembly language programming, microcomputer architecture, and operating systems. 1-1/2 hours design content.  
*Prerequisite: ELEN 3331.*
- 4387 Microcomputer II** 3:2.5:1  
Advanced assembly language, microcomputer organization, interfacing with peripheral devices and computer software development systems. 1-1/2 hours design content.  
*Prerequisite: ELEN 4386.*
- 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.*
- 3322 Electronics II** 3:3:0  
In-depth study of semiconductor devices and integrated circuit characteristics, stability, feedback amplifiers and frequency response.  
*Prerequisite: ELEN 3321, 3312.*
- 4351 Control Engineering** 3:3:0  
Transfer functions, stability criteria, time response, frequency response, root locus, design, and compensation.  
*Prerequisite: ELEN 3313.*
- 4372 Electromagnetics II Topics** 3:3:0  
Intermediate-level electromagnetics topics. May be repeated for credit when topics vary. Topics may include fiber optic waveguides and systems, communication antennas, microwave circuits and systems, radar theory and applications, etc. 1-1/2 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, 3331.*
- 4391 Introduction to VLSI Design** 3:2:3  
Principles of basic microchip design. Use of computer-aided software design with hands-on experience in implementing very large scale integrated (VLSI) circuits. Detailed study and computer simulation of MOS-capacitance models. 1-1/2 hours of design content.  
*Prerequisite: Junior standing in EE.*
- 4392 Fault Diagnosis and Fault Tolerant Design** 3:2:3  
Study of test generation algorithms for combinational circuits such as Boolean Difference; D, PODM, and FAN algorithms. Test generation techniques for RAMs and microprocessors. Design for testability and fault tolerance. 1-1/2 hours of design content.  
*Prerequisite: Junior standing in EE.*

## Department of Industrial Engineering

**Department Chair:** Victor Zaloom

**2014 Cherry Building, Phone 880-8804**

**Professors:** Gates, Zaloom, Chu

**Associate Professor:** Thomas

**Laboratory Technician:** Costa

The Department of Industrial Engineering offers the Bachelor of Science degree in Industrial Engineering and in Industrial Technology.

### Industrial Engineering

The Industrial Engineering program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

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 things but also with people. It especially deals with managerial problems requiring a knowledge of fundamental science and engineering practice for their solutions.

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, e.g. all use industrial engineers. Governmental agencies of all sorts are attracting graduates.

Men and women alike are finding responsible jobs and excellent salaries in the field of Industrial Engineering. Women have a special opportunity as the demand exceeds the supply in this engineering discipline. Responsible jobs and excellent salaries accompany a demand which far exceeds the supply of women in the field. Advancement on the same basis as that experienced by men makes the profession especially attractive.

Our academic staff is also supported by an advisory committee of successful alumni from industry. The Lamar University Industrial Engineering Department provides a campus home and friendly team atmosphere with a focus on preparation of students for career leadership.

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.

## Bachelor of Science – Industrial Engineering

### Suggested Program of Study

#### First and Second Year (See Engineering Core Program)

#### Third Year

##### First Semester

##### Second Semester

INEN 3322 Intro to Process Engineering .....	3
INEN 3312 IE Sys Design .....	3
ENGR 3350 CAD .....	3
Soc Sci (b) .....	3
POLS 2301 .....	3
MATH 3370 .....	3

Lab Sci Elective .....	4
INEN 4320 Statistical Decision Making for Engineers .....	3
Eng Lit (a) .....	3
POLS 2302 .....	3
HIST 1302 Am Hist .....	3

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#### Fourth Year

##### First Semester

##### Second Semester

INEN 4350 Production and Inventory Control	3
INEN 4300 Quality Control .....	3
INEN 4340 Materials Science and Manufacturing Processes .....	3
MEEN 3311 Fluid Mechanics .....	3
INEN 4315 Organization and Management .....	3
HLTH 1370 .....	3

ENGR 4301 Spec. Top. Dsgn of Prod Fac .....	3
INEN 4370 Operations Research .....	3
INEN 4310 Computer Aided Manuf. ....	3
INEN 4316 Industrial and Product Safety .....	3
Fine Arts (c) .....	3

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Total Semester Hours-135

#### Notes:

(a) Any course in Sophomore Literature (ENGL 2322-2377) will satisfy this requirement if student had one year of foreign language in high school.

(b) ECON 2301 and 2302, SOCI 1301, PSYCO 2301 or ANTH 2346.

(c) HUMA 1315, MUSI 1306 or DANC 1370.

## 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 administered by the Lamar University Institute of Technology or Lamar University 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 (GPA) of

at least 2.00. 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

Technology Courses .....	12
Eng Comp .....	3
PEGA .....	1 or 2

16-17

##### Second Semester

Technology Courses .....	12
PEGA .....	1 or 2
PHIL 1370 .....	3

16-17

#### Second Year

##### First Semester

Technology Courses .....	12
Eng Comp .....	3
INEN 3301 Survey of IE .....	3

18

##### Second Semester

Technology Courses .....	12
Technology Course or Elective .....	3
HLTH 1370 .....	3

18

#### Third Year

##### First Semester

MATH 1314 .....	3
INEN 3312 .....	3
POLS 2301 .....	3
Soc Sci Elective .....	3
INEN 3322 Introduction to Process Engineering3	
INEN Elective I (a) .....	3

18

##### Second Semester

MATH 1325 Analysis .....	3
Lab Sci I .....	4
POLS 2302 .....	3
INEN 4380 Work Measurement .....	3
INEN 3360 Computer Applications in IE .....	3

16

#### Fourth Year

##### First Semester

COMM 1315 .....	3
INEN 3330 Engineering Economy .....	3
INEN 3390 Materials Science and Manufacturing Processes .....	3
Am His .....	3
INEN 4351 Production and Inventory Systems3	
Eng Lit (b) .....	3

18

##### Second Semester

Am Hist .....	3
INEN 4301 Applications .....	3
INEN 4315 Organization and Management .....	3
Fine Arts (c) .....	3
Lab Science II .....	4

16

Total Semester Hours: 136-138

#### Notes:

(a) A 3000 or 4000 level INEN course, from approved list.

(b) Any of ENGL 2322-2377 will satisfy this requirement. Students who have not completed one year of foreign language in high school must take two literature courses.

(c) HUMA 1315, MUSI 1306 or DANC 1370.

## Industrial Engineering Courses (INEN)

<b>3300</b>	<b>Industrial Engineering</b>	<b>3:3:0</b>
	Introduction to Industrial Engineering, its tools and techniques.	
<b>3301</b>	<b>Survey of Industrial Engineering</b>	<b>3:3:0</b>
	The origins and evolution of Industrial Engineering. The problem solving techniques available and their applications.	
	<i>Not open to students majoring in engineering.</i>	
<b>3312</b>	<b>IE Systems Design</b>	<b>3:2:3</b>
	Identification and analysis of industrial engineering problems. Design of industrial engineering systems.	
	<i>Corequisite: INEN 3300 or INEN 3301, admission to IE department.</i>	
<b>3322</b>	<b>Introduction to Process Engineering</b>	<b>3:2:3</b>
	Theory and practice of machine tool applications, safety quality and economics. Introduction to digital programming of machine tools and processes.	
	<i>Prerequisite: BASIC Programming, Junior standing.</i>	
<b>3330</b>	<b>Engineering Economy</b>	<b>3:3:0</b>
	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 1325.</i>	
<b>3360</b>	<b>Microcomputer Applications in Industrial Engineering</b>	
	Problems in application areas such as operations research, production planning and scheduling, quality and inventory control will be presented. Microcomputer-based software packages will be used as aids to solve problems.	
	<i>Prerequisite: INEN 3330 or 3301.</i>	
<b>3380</b>	<b>Work Design</b>	<b>3:2:3</b>
	Determination of work content, layout, methods, and times required for manufacturing tasks. Design of jobs and workplace for productivity and human value content.	
	<i>Prerequisite: MATH 3370</i>	
<b>3390</b>	<b>Manufacturing Materials and Process</b>	<b>3:3:0</b>
	Functional and economic selection of materials and processes in manufacturing.	
	<i>Not open to students majoring in engineering.</i>	
	<i>Prerequisite: CHEM 1405 or equivalent, INEN 3322.</i>	
<b>4300</b>	<b>Quality Assurance and Control</b>	<b>3:3:0</b>
	Assurance that products perform as intended. Reducing or eliminating defective output.	
	<i>Prerequisite: MATH 3370</i>	
<b>4301</b>	<b>Quality Control Applications</b>	<b>3:3:0</b>
	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>	
<b>4310</b>	<b>Computer Aided Manufacturing</b>	<b>3:3:0</b>
	Design problems in the areas of computer numerical control, robotics and computer vision are presented. Manufacturing Control Systems are discussed as they relate to a Computer Integrated Manufacturing (CIM) environment.	
	<i>Prerequisite: BASIC programming, INEN 3322 or equivalent, and Senior standing.</i>	
<b>4315</b>	<b>Organization and Management</b>	<b>3:3:0</b>
	The theory of organization and management. How the executive functions to achieve the organization's goals.	
	<i>Prerequisite: Junior standing.</i>	
<b>4316</b>	<b>Industrial and Product Safety</b>	<b>3:3:0</b>
	Loss control engineering. Mandatory and voluntary standards. Product liability.	
	<i>Prerequisite: Senior standing.</i>	
<b>4320</b>	<b>Statistical Decision Making for Engineers</b>	<b>3:3:0</b>
	Analysis of data to help the engineer/executive make decisions. Evaluations of performance claims.	
	<i>Junior standing in engineering.</i>	

- 4340 Materials Science and Manufacturing Processes** 3:3:0  
Basic principles underlying the behavior of engineering materials and methods of processing these materials.  
*Prerequisite: INEN 3322, CHEM 1411 or equivalent.*
- 4350 Production and Inventory Control** 3:3:0  
Techniques for planning and controlling production and inventories. Modern materials requirements planning.  
*Prerequisite: MATH 3370, INEN 3300.*
- 4351 Production and Inventory Systems** 3:3:0  
The design and operation of systems for managing production and inventories.  
*Not open to students majoring in engineering.*  
*Prerequisite: INEN 3301.*
- 4370 Operations Research** 3:3:0  
An introduction to the construction and mathematical models of organizational systems to aid executives in making decisions.  
*Prerequisite: MATH 3370.*
- 4380 Work Measurement** 3:2:3  
Analysis of layout, methods and motion. Measurement of work content and time manual and machine tasks. Setting time standards.  
*Not open to students majoring in engineering.*

## Department of Mechanical Engineering

Program accredited by the Engineering Accreditation Commission of the Accreditation Board of Engineering and Technology.

**Department Chair:** Victor Zaloom (Interim)    **2008 Cherry Building, Phone 880-8769**

**Professors:** Corder, Young

**Assistant Professors:** Gonthier, Cox, Srinivasan

**Laboratory Technician:** Colville

Mechanical engineering is a very diverse profession which includes the analysis, design, synthesis and selection of materials for mechanical and thermal systems. This wide range of applications requires a solid foundation in the basic sciences and mathematics as well as in the engineering sciences.

Application of the sciences to the many phases of mechanical engineering is initiated in the junior year. Opportunity is provided the student at the senior level to examine certain aspects of mechanical engineering in more detail or to prepare for graduate study.

Mechanical engineers are found in virtually every phase of industry. They are engaged in professional engineering, research, development, management, and public service. The end products resulting from the application of their knowledge and professional skills are many and a list would include, for example, energy conversion, energy economics, all forms of transportation, central power plants, nuclear reactors, space vehicles, computers, and complex and challenging engineering endeavors.



# Bachelor of Science – Mechanical Engineering

## Suggested Program of Study

### First and Second Year (See Engineering Core Program)

Third Year	
First Semester	Second Semester
Eng Lit ..... 3	MEEN 3210 Measurements Lab ..... 2
MEEN 3300 Mech Design I ..... 3	MEEN 3310 Heat Transfer ..... 3
MEEN 3311 Fluid Mech ..... 3	MEEN 3320 Mech Design II ..... 3
MEEN 3380 Thermo II ..... 3	MEEN 3340 Engr Anal ..... 3
ELEN 3321 Electronics I ..... 3	Fine Arts ..... 3
MEEN 3350 CAE ..... 3	INEN 4320 or approved statistics course ..... 3-4
18	17-18

Fourth Year	
First Semester	Second Semester
MEEN 43103 Thermal Sys Des ..... 3	MEEN 43106 Engineering Design Project ..... 3
MEEN 4310 Integrated Systems Design ..... 3	MEEN 43107 Dyn Sys Analysis ..... 3
MEEN 43109 Materials Science ..... 3	*MEEN Elective ..... 3
MEEN 4323 Mech Des III ..... 3	Soc Sci ..... 3
POLS 2301 ..... 3	HLTH 1370 ..... 3
*MEEN Elective ..... 3	POLS 2302 ..... 3
MEEN 4110 Seminar ..... 1	
19	18

\*At least three hours in design are required from MEEN electives.

## Mechanical Engineering Courses (MEEN)

<b>3210</b>	<b>Measurements Laboratory</b>	<b>2:1:3</b>
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>		
<b>3300</b>	<b>Mechanical Design I</b>	<b>3:3:0</b>
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: ENGR 2302 and CVEN 2372.</i>		
<b>3310</b>	<b>Heat Transfer</b>	<b>3:3:0</b>
Theory of conduction, convection, radiation and heat transfer with engineering techniques and applications.		
<i>Prerequisite: MATH 3401. Pre or corequisite: MEEN 3311.</i>		
<b>3311</b>	<b>Fluid Mechanics</b>	<b>3:3:0</b>
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.		
<i>Prerequisites: ENGR 2302, 2374, CVEN 2372 and MATH 3401.</i>		
<b>3320</b>	<b>Mechanical Design II</b>	<b>3:2:3</b>
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.		
<i>Prerequisites: CVEN 2372.</i>		

- 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 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: ENGR 2302, CVEN 2372.*
- 3380 Thermodynamics II** 3:3:0  
A continuation of ENGR 2374 including availability, vapor and gas cycles, mixtures of gases, thermodynamics of chemical systems and psychrometrics.  
*Prerequisite: MATH 3401 and ENGR 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  
Atomic and crystallographic structures of materials, mechanical properties of materials, elastic and plastic behavior as well as stress and strain measurement, yield phenomena, hardness and laboratory techniques are considered. Criteria for selection of engineering materials are discussed.  
*Prerequisites: CVEN 2372.*
- 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 III** 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.  
*Prerequisites: 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.*
- 4380 Environmental Systems Engineering** 3:2:3  
Design of refrigeration and air-conditioning systems including selection of mechanical equipment, controls, piping and duct layout.  
*Prerequisite: MEEN 3310, MEEN 3380 and MEEN 3311.*

## Department of Mathematics

**Department Chair:** Alec L. Matheson

**Lucas Building, Phone 880-8792**

**Director of Mathematics Instruction:** John F. Harvill

**Professors:** Chiou, Matheson

**Professor Emeriti:** Bell (1979), Latimer (1979)

**Associate Professors:** Maesumi, Laidacker, Price

**Assistant Professors:** Andreev, Baker, Dawkins, Harvill, Lauffer, Read, Winfield

The Department of Mathematics offers courses in applied and pure mathematics, computer science, 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. Students who chose one of the latter two programs, concentrating in applied mathematics or statistics, will have the appropriate information recorded on their transcripts.

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 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.

## Placement

Entrance into all mathematics courses is determined by the advisor in the student's major department, consistent with course prerequisites and possible SAT and TASP (Texas Academic Skills Program - Certification Test for Entrance into College) requirements for entry-level courses: Students who fail the mathematics portion of TASP must begin their mathematics with DMTH 0371. Students who have passed the mathematics portion of TASP but do not have an adequate SAT score are to initiate their mathematics with DMTH 0372 or possibly MATH 1335 depending upon the mathematics requirements in their major degree plan.

## 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. 14
2. Major requirements: 49 hours
  - a. MATH 2305, 2413, 2414, 2415, 2318, 3350, 3370, 3380, 3401, 4310, 4315
  - b. MATH Electives - Two courses from among MATH 3330, 3321, 4316, 4330
  - 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.

## 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: 21 Hours
- Total Hours: 130

## 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 130

## Standard Curriculum for B.S. Degree Programs

First Year	
First Semester	Second Semester
Engl Comp ..... 3	Engl Comp ..... 3
MATH 2413 ..... 4	MATH 2414 ..... 4
PHIL 1370 ..... 3	COSC ..... 3
MATH 2305 ..... 3	Lab Sci ..... 4
PEGA ..... 2	PEGA ..... 2
15	16

Second Year	
First Semester	Second Semester
Engl Lit ..... 3	Engl Lit ..... 3
MATH 2415 ..... 4	MATH 3401 ..... 4
MATH 2318 ..... 3	POLS 2302 ..... 3
POLS 2301 ..... 3	COSC ..... 3
Lab Sci ..... 4	Professional Elective ..... 3
17	16

Third Year	
First Semester	Second Semester
MATH 3380 ..... 3	MATH 3350 ..... 3
MATH 3370 ..... 3	Professional Elective ..... 6
HIST 1301 ..... 3	HIST 1302 ..... 3
Professional Elective ..... 3	COMM 1315 ..... 3
HLTH 1370 ..... 3	Elective ..... 3
15	18

Fourth Year	
First Semester	Second Semester
Fine Arts ..... 3	MATH 4310 ..... 3
MATH 4315 ..... 3	Professional Elective ..... 3
Professional Elective ..... 6	Elective ..... 3
MATH Elective ..... 3	Soc Sci ..... 3
Elective ..... 3	MATH Elective ..... 3
18	15

## Mathematics Courses (MATH)

- 1314 College Algebra** 3:3:0  
Linear, quadratic equations and inequalities, determinants, matrices, systems of equations, partial fractions, binomial theorem, logarithms, theory of equations.  
*Prerequisite:* Two years of high school algebra, 480 Math SAT or DMTH 0372 and 260 TASP.
- 1316 Trigonometry** 3:3:0  
Study of trigonometric functions, identities, inverse functions, trigonometric equations, graphs and applications of trigonometry. Recommended for students who have not had high school trigonometry.  
*Prerequisite:* Two years of high school algebra, MATH 1314 or concurrent, and TASP.
- 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:* Two years of high school algebra, 480 Math SAT or MATH 0372 and 260 TASP.
- 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 the integral calculus.  
*Prerequisite:* MATH 1324 or 1314, or their equivalent.
- 1335 Math for Elementary Teachers I** 3:3:0  
Sets, the systems of whole numbers, the system of integers, elementary number theory, the system of rationals and the system of real numbers.  
*Prerequisite:* Two years of high school algebra and TASP or MATH 0372.
- 1336 Math for Elementary Teachers II** 3:3:0  
Equations, inequalities, graphs, functions, geometry, counting methods, probability and statistics.  
*Prerequisite:* MATH 1335.
- 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.
- 2305 Discrete Mathematics** 3:3:0  
An introduction to combinatorial and finite mathematics required in the study of computer science. Topics include special functions such as truncation, floor and ceiling, number theory, matrix algebra, summation notation, logic and Boolean algebra, probability, combinatorics, graph theory, difference equations and recurrence relations.  
*Prerequisite:* MATH 1314 or its equivalent.
- 2312 Precalculus Mathematics** 3:3:0  
Intensive review of algebra, trigonometry and analytic geometry. Prepares students for MATH 2413 and 2376.  
*Prerequisite:* Two years of high school algebra, trigonometry, 480 Math SAT and 260 TASP.
- 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 space 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: MATH 2312 or its equivalent.*
- 2414 Calculus and Analytic Geometry II** 4:4:0  
Methods of integration, polar co-ordinates, parametric equations and vectors.  
*Prerequisite: MATH 2413 or its equivalent.*
- 2415 Calculus and Analytic Geometry III** 4:4:0  
Sequences, series, functions of several variables, vector analysis, partial derivatives, multiple integrals and differential equations.  
*Prerequisite: MATH 2414 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.*
- 3313 Elementary Geometry** 3:3:0  
The development of Euclidean geometry, concepts of measurement and co-ordinate geometry.  
*Prerequisite: MATH 1335.*
- 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 1314 and MATH 1335.*
- 3317 Problem Solving** 3:3:0  
Role of inductive and deductive methods in solving and posing problems. Methodology is introduced via illustrative examples.  
*Prerequisite: 9 semester hours of Mathematics.*
- 3321 Discrete Structures** 3:3:0  
Combinatorics, graphs, Boolean algebra, algebraic structures, coding theory, finite state machines, machine design and computability.  
*Prerequisite: MATH 2414 and 2318, and COSC 1373.*
- 3330 Higher Geometry** 3:3:0  
Axiomatic and set-theoretic treatment of geometry. An analysis of the metric and synthetic approach to Euclidean geometry. Introductory to non-Euclidean geometries.  
*Prerequisite: MATH 2414 or consent of the instructor.*
- 3350 Modern Algebra** 3:3:0  
An introduction to algebraic structures, groups, rings, integral domains and fields.  
*Prerequisite: MATH 2318 and MATH 2414 (or 2377).*
- 3370 Introduction to the Theory of Statistical Inference** 3:3:0  
A calculus-based introduction to statistics. Probability, special probability distribution, nature of statistical methods, sampling theory, estimation, testing hypotheses.  
*Prerequisites: MATH 2414 or 2377.*
- 3380 Advanced Calculus** 3:3:0  
Sequences, series, Riemann integral, Weierstrass approximation theorem, Lebesgue integral.
- 3401 Differential Equations and Linear Algebra** 4:4:0  
Classical techniques for ordinary differential equations, linear algebra, linear systems of ordinary differential equations, series solutions and Laplace transforms.  
*Prerequisite: MATH 2415.*

- 4310 Complex Variables** 3:3:0  
Complex numbers, analytic functions, complex line integrals, Cauchy integral formula and applications.  
*Prerequisite: MATH 2415.*
- 4315 Numerical Analysis** 3:3:0  
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.  
*Prerequisite: MATH 2415 and COSC 1373, or its equivalent.*
- 4316 Mathematical Programming** 3:3:0  
Linear programming. Unconstrained and constrained optimization. Lagrange multipliers. Newton's method. Steepest descent. Convex programming.  
*Prerequisite: MATH 2414, MATH 2318 or MATH 3401*
- 4330 Linear Algebra II** 3:3:0  
Vector-spaces, linear transformations, matrices, determinants, Eigenvalues, Eigenvectors, canonical forms, bi-linear mappings and quadratic forms.  
*Prerequisite: MATH 2414 and MATH 2318.*
- 4331 Special Problems** 3:3:0  
Special advanced problems in mathematics to suit the needs of individual students. Course may be repeated for credit when the topic varies.  
*Prerequisite: Consent of instructor.*





***Creative and leading-edge characterize the fine arts and communication divisions of the College which prepares students to flourish professionally and personally.***

## College of Fine Arts and Communication

**Departments:** Art, Communication, Communication Disorders, and Music, Theatre and Dance

**James M. Simmons, Ed.D., Dean**

**Art Building, Office 100, Phone 880-8137**

### Aims and Purposes

**In Relation to the University**—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” man or woman; 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.

**In Relation to the Departments**—The College of Fine Arts and Communication offers the following basic degree programs:

1. **Art Department**  
Bachelor of Fine Arts with emphasis in either Studio Art or Visual Design  
Bachelor of Science in Visual Art (Leading to Teacher Certification)
2. **Communication Department**  
Bachelor of Science in Communication Studies
3. **Communication Disorders Department**  
Bachelor of Science in Communication Disorders
4. **Music/Theatre Department**  
Bachelor of Music in Performance  
Bachelor of Music (Leading to Teacher Certification)  
Bachelor of Science Theatre (Leading to Teacher Certification)  
Bachelor of Arts in Theatre

**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 included in the Graduate Catalog.**

### Humanities Courses (HUMA)

The departments of art, communication and music, theatre and dance of the College of Fine Arts and Communication cooperate in the offering of three interdisciplinary courses 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, genders respect for man's creative potential, and encourages emotional maturity through awareness and understanding of aesthetic responses. (CC No. 1315)

## Bachelor of General Studies

The Bachelor of General Studies degree offers a program of interest to those who desire a wide knowledge of the arts without the intent of becoming practicing professional artists and teachers of the arts. Thus, the program offered through this degree resists any tendency toward specialization within the arts. It does provide opportunity, however, for an individual to construct a personal curricular plan, i.e., to follow a special interest within the arts, or to complement the student's appreciation and understanding of the arts through the selection of a rather broadbased program of elective courses from the University offerings as a whole.

## Department of Art

**Department Chair:** Donna M. Meeks

**Dishman Art Gallery, Phone 880-8141**

**Professors:** Newman

**Associate Professors:** Fitzpatrick, Jack, Lokensgard, Meeks

**Assistant Professors:** Hodges, Nakagawa

**Wallis Chair in Visual and Performing Arts:** Carter

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, and Ceramics. The Bachelor of Science degree is offered in visual art for students seeking all-levels 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 and attend a freshman orientation presented by the department. 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.

Each art major will be required to submit 5 slides of his/her art projects per studio course, in order to document his/her progress.

After completing foundational studies (ARTS 1311, 1312, 1316 and 1317), all art majors must participate in Sophomore Review as conducted by the department.

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. The Department of Art reserves the right to retain a selected work from each graduate for its collection.

A nonmajor student may be admitted to an art course requiring prerequisites with the consent of the instructor.

A minor in art is available to students in other programs or departments by earning 18 hours of credit approved by the department head.

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.

## Suggested Programs of Study

### Bachelor of Fine Arts – Visual Design Emphasis

Bachelor of Fine Arts in Visual Art with a visual design emphasis requires 75 hours of academic foundations with 60 credit hours of professional program.

#### 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 .....	3	PHIL 1370 .....	3
Engl Comp .....	3	Engl Comp .....	3
PEGA .....	2	PEGA .....	2
Lab Science .....	4	Lab Science .....	4
	18		18

#### 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 2331 Visual Design I .....	3
HLTH 1370 .....	3	Social Science .....	3
Engl Lit .....	3	COMM 1315 .....	3
MATH 1314 or above .....	3	Methods of Quantitative Analysis .....	3
	18		18

#### Third Year

First Semester		Second Semester	
ARTS 2356 Photography I .....	3	ARTS 4353 Computers II .....	3
ARTS 3313 Illustration I .....	3	ARTS 3333 Visual Design II .....	3
ARTS 4343 Computers I .....	3	Art History Elective .....	3
Amer History .....	3	Amer History .....	3
POLS 2301 .....	3	POLS 2302 .....	3
ARTS 3199 Studio Seminar .....	1	ARTS 3199 Studio Seminar .....	1
	16		16

First Semester	Fourth Year	Second Semester
ARTS 3343 Visual Design III ..... 3		ARTS 4399 Thesis ..... 3
ARTS 3355 Printmaking I ..... 3		Art Elective ..... 3
Engl Lit OR For Lang ..... 3		ARTS 3316 Watercolor I ..... 3
Art History Elective ..... 3		ARTS 4363 Computers III ..... 3
ARTS 4373 Field Study ..... 3		Art History Elective ..... 3
ARTS 3199 Studio Sem 1 ..... 1		
	16	15

\*ARTS 1303-1304 prerequisite to all Art 3000-4000 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 75 credit hours of academic foundations and 60 credit hours of professional program to include elective courses in the following areas:

Painting: 3316, 3317, 3326, 3327, 4316, 4326

Printmaking: 3365, 4355

Drawing: 3325, 4315, 4325

Sculpture: 3375, 4375

Ceramics: 3376, 3386, 4376

Photography: 2379, 3303, 4303, 4343, 4353

First Semester	First Year	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
PEGA ..... 2		PEGA ..... 2
Lab Science ..... 4		Lab Science ..... 4
	18	18

First Semester	Second Year*	Second Semester
ARTS 2323 Drawing III ..... 3		ARTS 2324 Drawing IV ..... 3
ARTS 2311 Design III ..... 3		ARTS 2326 Sculpture ..... 3
ARTS 1303 Art History Survey I ..... 3		ARTS 1304 Art History Survey II ..... 3
HLTH 1370 ..... 3		ARTS 2316 Painting I ..... 3
Engl Lit ..... 3		Social Science ..... 3
MATH 1314 ..... 3		COMM 1315 ..... 3
	18	18

Third Year	
First Semester	Second Semester
ARTS 3315 Drawing V ..... 3	Art Elective ..... 3
ARTS 2356 Photography I ..... 3	Art History Elective ..... 3
ARTS 3355 Printmaking I ..... 3	American History ..... 3
ARTS 3199 Studio Sem ..... 1	POLS 2301 ..... 3
American History ..... 3	ARTS 3335 or 3376 ..... 3
Methods of Quantitative Analysis ..... 3	ARTS 3199 Studio Seminar ..... 1
16	16

Fourth Year	
First Semester	Second Semester
Art Elective ..... 3	ARTS 4399 Thesis ..... 3
Art Elective ..... 3	Art Elective ..... 3
Art Studio Elective (upper div) ..... 3	Art Studio Elective (upper div) ..... 3
Art History Elective ..... 3	Art History Elective ..... 3
Engl Lit OR For Lang ..... 3	POLS 2302 ..... 3
ARTS 3199 Studio Seminar ..... 1	
16	15

\*ARTS 1303-1304 prerequisite to all Art 3000-4000 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 certification in art requires 60 credit hours of professional program and 78 hours of academic foundations (including 18 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 I ..... 3	ARTS 1317 Drawing II ..... 3
ARTS 1311 Design I ..... 3	ARTS 1312 Design II ..... 3
Engl Comp ..... 3	Engl Comp ..... 3
PEGA ..... 2	PEGA ..... 2
Fine Arts ..... 3	PHIL 1370 ..... 3
Lab Science ..... 4	Lab Science (same discipline) ..... 4
18	18

Second Year*	
First Semester	Second Semester
ARTS 2323 Drawing III ..... 3	ARTS 1304 Art History Survey II ..... 3
ARTS 2311 Design III ..... 3	Engl Lit OR For Lang ..... 3
ARTS 1303 Art History Survey I ..... 3	Methods of Quantitative Analysis ..... 3
Engl Lit ..... 3	Social Science ..... 3
HLTH 13700 ..... 3	COMM 1315 ..... 3
MATH 1314 ..... 3	ARTS 2331 Vis Design I ..... 3
18	18

Third Year	
First Semester	Second Semester
ARTS 3355 Printmaking I ..... 3	PEDG 3320 ..... 3
ARTS 3371 Studies in Visual Art ..... 3	POLS 2302 ..... 3
PEDG 3310 ..... 3	American History ..... 3
ARTS 3199 Studio Seminar ..... 1	ARTS 4343 Computers in Art I ..... 3
POLS 2301 ..... 3	ARTS 2356 Photography I ..... 3
American History ..... 3	ARTS 3199 Studio Seminar ..... 1
16	16

Fourth Year	
First Semester	Second Semester
ARTS 3376 Ceramics I ..... 3	PEDG 4630 Stud Tchg All Levels/Special ..... 6
PEDG 3380 ..... 3	PEDG 4340 Elem Meth & Classrm Mgt ..... 3
ARTS 3316 Watercolor I or ARTS 2316 Ptg I .. 3	ARTS 4381 Adv. Visual Study ..... 3
ARTS 3199 Studio Seminar ..... 1	ARTS 3335 Crafts or ARTS 2326 Sculpture .... 3
Art Hist Elective ..... 3	Art Hist Elective ..... 3
PEDG 3326 Cont Area Rdg ..... 3	
16	18

\*ARTS 1303-1304 prerequisite to all Art 3000-4000 level courses for art majors.

## Art Courses (ARTS)

<b>1301 Art Appreciation</b>	<b>3:3:0</b>
An introductory course emphasizing the understanding and appreciation of visual arts (painting, sculpture, architecture). Open to all students.	
<b>1303 Art History Survey I</b>	<b>3:3:0</b>
A survey of painting, sculpture, architecture and the minor arts from prehistoric times to the 14th Century.	
<b>1304 Art History Survey II</b>	<b>3:3:0</b>
A survey of painting, sculpture, architecture and the minor arts from the 14th Century to the present.	
<b>1311 Design I</b>	<b>3:3:3</b>
The study of the elements and concepts of two-dimensional design.	
<b>1312 Design II</b>	<b>3:3:3</b>
Continuation of Design I with emphasis upon three-dimensional concept.	
<i>Prerequisite: ARTS 1311.</i>	
<b>1316 Drawing I</b>	<b>3:3:3</b>
A beginning course investigating a variety of drawing media, techniques and subjects, exploring perceptual and descriptive possibilities.	
<b>1317 Drawing II</b>	<b>3:3:3</b>
Continuation of Drawing I stressing the expressive and conceptual aspects of drawing.	
<i>Prerequisite: ARTS 1316.</i>	
<b>2311 Design III</b>	<b>3:3:3</b>
An advanced investigation into historical and contemporary color theories and systems.	
<i>Prerequisite: ARTS 1312.</i>	
<b>2316 Painting I</b>	<b>3:3:3</b>
A course exploring the potentials of painting media with emphasis on color and composition.	
<i>Prerequisite: ARTS 1317 and ARTS 1312.</i>	
<b>2323 Drawing III</b>	<b>3:3:3</b>
A life drawing course emphasizing structure and action of the human figure.	
<i>Prerequisite: ARTS 1317.</i>	

- 2324 Drawing IV** 3:3:3  
A continuation of Drawing III with emphasis on individual expression.  
*Prerequisite:* ARTS 2323.
- 2326 Sculpture I** 3:3:3  
An exploration of the various sculptural approaches in a variety of media including additive and subtractive techniques.  
*Prerequisite:* ARTS 1317 and 1312.
- 2331 Visual Design I** 3:3:3  
An introduction to typography, layout and design for print and media production.
- 2356 Photography I** 3:3:3  
An introduction to basic photographic processes and techniques used as an art medium.
- 2379 Photography II Advanced Photo Technique** 3:3:3  
Advanced study of black and white photography as an art medium.  
*Prerequisite:* ARTS 2356.
- 3199 Studio Seminar** 1:1:0  
Seminar for all junior and senior students. After passing Sophomore Review, this course must be taken three times before starting senior thesis.  
*May be repeated for credit.*
- 3303 Large Format Camera Photography** 3:3:3  
Introduction to the use of both medium format and view cameras.  
*Prerequisite:* ARTS 2379.
- 3313 Illustration I** 3:3:3  
A media course. The preparation and execution of graphic material for reproduction.
- 3315 Drawing V** 3:3:3  
Continuation of Drawing IV with emphasis on experimentation with various media for their adaptability to drawing principles.  
*Prerequisite:* ARTS 2324.
- 3316 Watercolor I** 3:3:3  
Study and practice in the planning and execution of paintings in transparent and opaque watercolor.  
*Prerequisite:* ARTS 2311. *May be repeated for credit.*
- 3317 Painting II** 3:3:3  
Continuation of Painting I with emphasis on individual expression.  
*Prerequisite:* ARTS 2316. *May be repeated for credit.*
- 3323 Illustration II** 3:3:3  
Experimentation with various techniques and/or media. Continuation of Art 3313.  
*Prerequisite:* ARTS 3313.
- 3325 Drawing VI** 3:3:3  
Continuation of Art 3315. *May be repeated for credit.*  
*Prerequisite:* ARTS 3315.
- 3326 Watercolor II** 3:3:3  
A continuation of 3316. *May be repeated for credit.*  
*Prerequisite:* ARTS 3316.
- 3327 Painting III** 3:3:3  
Continuation of 3317. *May be repeated for credit.*  
*Prerequisite:* ARTS 3317.
- 3333 Visual Design II** 3:3:3  
A survey of the principles and techniques of layout for media advertising, collateral and editorial material and the basic preparation of art for reproduction.  
*Prerequisite:* ARTS 2331.
- 3335 Crafts** 3:3:3  
Basic processes of textile design, weaving and jewelry. *May be repeated for credit.*
- 3343 Visual Design III** 3:3:3  
Advanced studies in layout for media advertising, collateral and editorial materials with an emphasis on portfolio development.  
*Prerequisite:* ARTS 3333.



3351	<b>Desktop Design</b>	3:3:3
	An introduction to the uses of computers in design, illustration, information and text processing and desktop publishing. Focus on developing general computer skills.	
3355	<b>Printmaking I</b>	3:3:3
	An introduction to printmaking with an emphasis on intaglio and relief processes.	
	<i>Prerequisite: ARTS 2323.</i>	
3365	<b>Printmaking II</b>	3:3:3
	A continuation of ARTS 3355 with emphasis on planographic and serigraphic techniques. May be repeated for credit.	
	<i>Prerequisite: ARTS 3355.</i>	
3371	<b>Studies in Visual Art</b>	3:3:0
	A survey of the curricula, methods and materials for the instruction of visual art in the elementary school.	
3375	<b>Sculpture II</b>	3:3:3
	Application of the principles of sculpture through experiment in clay, plaster and various materials. May be repeated for credit.	
	<i>Prerequisite: ARTS 2326.</i>	
3376	<b>Ceramics I</b>	3:3:3
	Investigation and practice in ceramic processes: forming and firing techniques. May be repeated for credit.	
	<i>Prerequisite: ARTS 2326 or permission of instructor.</i>	
3386	<b>Ceramics II</b>	3:3:3
	Opportunities for specialization in ceramic processes. May be repeated for credit.	
	<i>Prerequisite: ARTS 3376.</i>	
4303	<b>Color Photography</b>	3:3:3
	An introduction to color printing techniques.	
	<i>Prerequisite: ARTS 2379.</i>	
4315	<b>Drawing VII</b>	3:3:3
	Specialized problems in studio area. May be repeated for credit.	
	<i>Prerequisite: ARTS 3325.</i>	
4316	<b>Painting IV</b>	3:3:3
	Specialized problems in studio area. May be repeated for credit.	
4325	<b>Drawing VIII</b>	3:3:3
	A continuation of Drawing VII. May be repeated for credit.	
	<i>Prerequisite: ARTS 4315.</i>	
4326	<b>Painting V</b>	3:3:3
	A continuation of Painting IV. May be repeated for credit.	
	<i>Prerequisite: ARTS 4316.</i>	
4328	<b>19th Century Symbolist Art</b>	3:3:0
	A study of the Symbolist Movement in European art from 1885-1910.	
4331	<b>Crafts-Paper Fabrication</b>	3:3:3
	Investigation of techniques of manipulating or fabricating and impressing paper. Course may be repeated for credit.	
4336	<b>Professional Practices</b>	3:3:0
	A study of the practical aspects of the art profession with emphasis on health hazards, business procedures, and art law.	
4338	<b>Renaissance Art</b>	3:3:0
	A study of Renaissance art in Europe from the 14th through the 16th centuries.	
4341	<b>Crafts Stained Glass and Enameling Vitreous Crafts</b>	3:3:3
	Investigation of techniques of fabricating stained glass, both copper foil and leaded, fusing and enameling on glass and metal. Course may be repeated for credit.	
4343	<b>Computers in Art I</b>	3:3:3
	Introduction to computers as a creative tool. Language and logic. Development of image making techniques, data handling and design.	
4348	<b>19th Century European Art</b>	3:3:0
	A study of the foundation of abstractionism from Neo-Classicism through Post-Impressionism.	

- 4353 Computers in Art II** 3:3:3  
Advanced topics in computer image making. Language and logic. Development of animation, sound and visual communications techniques. May be repeated for credit.  
*Prerequisite: ARTS 4343.*
- 4355 Printmaking III** 3:3:3  
Specialized problems in studio area. May be repeated for credit.  
*Prerequisite: ARTS 3365.*
- 4358 American Art** 3:3:0  
The development of painting, sculpture and architecture in the United State from Colonial times to the present.
- 4363 Computers in Art III** 3:3:3  
Advanced topics in computer-aided design. Student selected problems dealing with specific areas of computer imaging. Work done on a contract basis with specified objectives and tangible results. May be repeated for credit.  
*Prerequisite: ARTS 4353.*
- 4368 Contemporary Art** 3:3:0  
A historical and critical analysis of painting from 1900 to the present.
- 4373 Field Study in Visual Design** 3:3:3  
Familiarization with the overall art field through actual experience. Time to be arranged. Permission of the instructor. May be repeated for credit.
- 4375 Sculpture III** 3:3:3  
Specialized problems in studio area. May be repeated for credit.  
*Prerequisite: ARTS 3375.*
- 4376 Ceramics III** 3:3:3  
Specialized problems in studio area. May be repeated for credit.  
*Prerequisite: ARTS 3386.*
- 4378 Primitive Art** 3:3:0  
A study of pre-historic and contemporary tribal art.
- 4381 Advanced Studies in Visual Art** 3:3:0  
Curricula, methods, and materials for instruction of visual art in the secondary school.
- 4388 Modern Architecture and Sculpture** 3:3:0  
The development and evolution of modern architecture and sculpture from the late 19th century to the present.
- 4391 Directed Individual Study** 3:3:0  
Research in a specialized area of art history. May be repeated for credit.  
*Prerequisite: Permission of instructor.*
- 4393 Directed Individual Study** 3:3:3  
Study of specialized area within commercial art field. May be repeated for credit.  
*Prerequisite: Permission of instructor.*
- 4395 Directed Individual Study** 3:3:3  
Study of specialized area within fine arts field. May be repeated for credit.  
*Prerequisite: Permission of instructor.*
- 4398 History of Photography** 3:3:0  
The development and evolution of photography from its invention in 1839 to the present.
- 4399 Thesis** 3:3:3  
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.

## Department of Communication

**Department Chair:** W. Patrick Harrigan

**201 Communication**

**Phone 880-8153**

**Professors:** Brentlinger, Harrigan

**Associate Professors:** Baker, King, Roth

**Assistant Professors:** Elliott, Stanley

**Instructors:** Perkins, Viall

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. Details concerning requirements for teacher certification and the professional education course requirements should be obtained 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" on page 24) and have a minimum score of 800 on the SAT or an equivalent composite ACT score to pursue a Bachelor's degree in the Communication department. Transfer students or students who wish to enter the Communication Department program 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. PSYO 2301 should be taken to meet the Social Science requirement. Other required courses are listed with the information about each major.

### Bachelor's Degree in Communication

The bachelor's degree programs in Communication preparing students for careers in corporate communication, journalism, media or public communication require each student to complete a REQUIRED departmental core curriculum of ten courses (30 hours). In addition, they will complete advanced classes in communication for their specific career interests.

Required classes for the departmental core curriculum include COMM 1370, 1307, 1373, 1318, 4340, three of the following: COMM 4301, 4310, 4320, 4381, 4383, OR 4390 and two of the following four classes: COMM 2373, 2341, 2335, OR 3340.

Students interested in careers in public relations and/or, corporate communication (human resource development, personnel management), journalism, media or public

communication 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.

### Suggested Course Sequence for the Bachelor of Science Degree in Communication (assumes TASP certified)

Year One	
First Semester	Second Semester
ENGL 1301 ..... 3	ENGL 1302, 1374 ..... 3
MATH ..... 3	MATH 1314/1324 or higher ..... 3
PHIL 1370 ..... 3	HLTH 1370 ..... 3
COMM 1370 ..... 3	COMM 1307 ..... 4
COMM 1315 ..... 3	COMM 1373 ..... 3

Year Two	
First Semester	Second Semester
Engl Lit ..... 3	Engl Lit/Foreign Lang ..... 3
POLS 2301 ..... 3	POLS 2302 ..... 3
Fine Arts ..... 3	PSYC 2301 ..... 4
COMM 2373, 2341, 2335, 3340 ..... 3	COMM 1318 ..... 3
Professional Elec ..... 3	Professional Elec ..... 3
PEGA ..... 2	PEGA ..... 2

Year Three	
First Semester	Second Semester
HIST 1301 ..... 3	HIST 1302 ..... 3
Lab Science ..... 3	Lab Science ..... 3
COMM 4301/4310/4320/4381/4383/4390 ..... 3	COMM 2373/2341/2335/3340 ..... 3
Professional Elec ..... 3	COMM 4301/4310/4320/4381/4383/4390 ..... 3
Free Elec ..... 3	Professional Elec ..... 6

Year Four	
First Semester	Second Semester
COMM 4340 ..... 3	COMM 4301/4310/4320/4381/4383/4390 ..... 3
Professional Elec ..... 3	Professional Elec ..... 3
Free Elec ..... 9	Free Elec ..... 9

\*Students interested in Media careers should take ENGL 1374.\*

## Communication Classes (COMM)

<b>1307 The Mediated Culture</b>	<b>3:3:0</b>
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.	
<b>1315 Public Speaking</b>	<b>3:3:0</b>
Principles and practice of public speaking.	
<b>1318 Interpersonal Communication</b>	<b>3:3:0</b>
Principles and practices of interpersonal communication in various settings.	
<i>Prerequisite: COMM 1370 and 1307</i>	

- 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.  
*Prerequisite: Membership in the Honors Program or approval of Honors Program director.*
- 1370 Introduction to 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** 3:3:0  
Covers all styles of writing for A/V: audio, television, film documentary, advertising, news, etc.  
*Prerequisite: COMM 1370, ENGL 1301 with "C" or better. Proficiency in typewriting is required or instructor's permission.*
- 1471 Introduction to Journalism** 4:3:2  
A basic course in the history and principles of journalism and in gathering material and writing hard news stories for publication. Proficiency in typewriting is required. Scheduled lab is required.
- 2303 Audio Production** 3:1:4  
Principles and practice of professional audio recording and editing.  
*Prerequisite: COMM 1318, 1370, 1307 and 2374, or instructor's permission.*
- 2311 News Reporting** 3:2:3  
A basic course in gathering material and writing news stories for publication. Proficiency in typewriting is required.  
*Prerequisite: COMM 1370, 1307 and 1373, or instructor's permission.*
- 2335 Argumentation & Critical Thinking** 3:3:0  
A study of evidence and reasoning and a critique of them as reflected in current public affairs.
- 2341 Performance Studies** 3:3:0  
Instruction and practice in the principles of speech applied to performance in the interpretation of prose and poetry.  
*Prerequisite: COMM 1315, three hours of sophomore English literature, or instructor's permission.*
- 2372 Editing, Copyreading and Desk-top Publishing** 3:3:0  
The development and use of printing, type recognition, type harmony, design, preparing editorial material, correcting copy and learning desk-top publishing.  
*Prerequisite: COMM 1370, 1307 and 1373, or instructor's permission.*
- 2373 Advanced Public Speaking** 3:3:0  
An in-depth study in the principles and practices of public presentations.
- 2374 Introduction to Broadcasting** 3:2:3  
A general introduction to the field of broadcasting including a study of station and network organization and control by law and societal forces.  
*Prerequisite: COMM 1370, 1307 and 1373, or instructor's permission.*
- 2375 TV & Film Genre** 3:3:0  
Genre presents formulaic type of entertainment (e.g. the monster film, the cop show, science fiction, etc.) recognizable to audiences by its recurring images and ideas. Course focuses on the relationship of the genre to culture, the universal human experience, and the viewer. May be repeated for different subjects.
- 3130 Communication Laboratory** 1:0:3  
Laboratory experience at the University Press, KVLU-FM, or LUTV. May be repeated for a total of three hours credit.  
*Prerequisite: COMM 1370, 1307 and 1373 or 2374, or instructor's permission.*
- 3234 Practicum** 2:0:4  
Laboratory experience under supervision of a professional in the field of student career interest. May be repeated for a total of six hours credit.  
*Prerequisite: Junior standing with a 3.0 GPA or instructor's permission.*
- 3301 Intercultural Communication** 3:3:0  
An examination of communication exchange between individuals from different cultures.  
*Prerequisite: COMM 1318, 1370, 1307 and 1373, or instructor's permission.*
- 3310 Business & Professional Speech** 3:3:0  
Application of the fundamentals of speech production to the needs of the professional person. For non-communication students.

- 3330 Advanced Journalistic Writing** 3:3:0  
Writing focused on skills required for magazine and newspaper feature writing and editorial commentary.  
*Prerequisite: COMM 1318, 1370, 1307 and 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, 1370, 1307, 3361 and sophomore standing, or instructor's permission.*
- 3361 Desktop Publishing**  
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 1370, 1307, and 1373, or instructor's permission.*
- 3370 Psychology of TV and Film** 3:3:0  
Class explores the psychological significance of media images and their relevance to individual psychological growth. While primarily utilizing the depth psychology approach of Carl Jung, the class includes lectures on neuroscience.
- 3380 Television Production** 3:1:4  
Activities in writing, acting, directing, producing, announcing and engineering various types of television production.  
*Prerequisite: COMM 1370, 1307, 1373, 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 1370, 1307, 1373 and 2311, or instructor's permission.*
- 3383 Television Field Production** 3:1:4  
Principles and practices of editing and post production.  
*Prerequisite: COMM 1370, 1307, 1373, 2303 and 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 1370, 1307, 1318, sophomore standing, or instructor's permission.*
- 4300 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, 1318, 1373 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: COMM 1370, 1307, 1373 and 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: COMM 1370, 1307, 1373 and junior standing, or instructor's permission.*
- 4320 Nonverbal Communication** 3:3:0  
Theory, research, analysis and practice in nonverbal communication.  
*Prerequisite: COMM 1370, 1307, 1318 and 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 1370, 1307, 1318, 1373 and junior 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 1370, 1307, 1318, 1373, 3340, and junior standing, or instructor's permission.*

- 4342 Communication Management**  
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 1370, 1307, 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**  
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 1370, 1307, 1318, 1373, 3360, 3361, 4310, 4301 or 4383 or 4390, and junior standing, or instructor's permission.*
- 4380 Advertising** 3:2:3  
Advertising strategies and techniques for the total marketing mix.  
*Prerequisite: COMM 3361 or 2373, 4310, 4301 or 4390, and junior standing, 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 1370, 1307, 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 1370, 1307, 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 1370, 1307, 1318, 1373 and junior standing, or instructor's permission.*
- 4395 Studies in Communication**  
Selected topics in major areas of Communication. May be repeated for a total of six hours credit when topic varies.  
*Prerequisite: COMM 1370, 1307, 1318, 1373 and junior standing, or instructor's permission.*

## Department of Communication Disorders

**Department Chair:** Gabriel A. Martin      **120A Speech-Hearing and Deafness Center**  
**Phone: 880-8175**

**Professors:** Andrews, Moulton

**Associate Professors:** Deal, Martin, M. Smith

**Assistant Professors:** Bienenstock, Carter, Dobson, Franklin, Lowery

**Instructors:** Chinn, Norwood-Chapman, Powell, Z. Smith

The Department of Communication Disorders (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 multidisciplinary pre-professional program which 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 Audiology and Speech-Language Pathology and strongly advised by our departmental faculty in Deaf Education (See 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 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" on page 24). Transfer students or students who wish to enter the Department of Communication Disorders 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 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 coursework. 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. Required courses are listed with more information about each.

### Bachelor of Science Degree in Communication Disorders

The bachelor's degree program in Communication Disorders, which prepares 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 1304, 1305, 2301, 2302, 2303, 2304, 3302 and five of the following: CMDS 3301, 3304, 3305, 4301, 4302, 4303, 4304, 4305, 4306, 4326, 4350\*. A special note: CMDS 2305, American Sign Language I, is taken by all Communication Disorders majors in lieu of one English literature course.

\*CMDS 4350 may be taken with faculty advisor and department chair approval.

## Communication Disorders (CMDS)

- |             |  |              |
|-------------|--|--------------|
| <b>1371</b> | <b>Introduction to Speech, Hearing and Language Disorders</b>  | <b>3:3:0</b> |
|             | Overview of the profession of speech pathology, audiology and deaf education. A course for NON-MAJORS.   |              |
| <b>1372</b> | <b>Phonetics</b>   | <b>3:3:0</b> |
|             | Knowledge of American English sound system and syllable structure including proficiency in using the International Phonetic Alphabet for phonetic transcription.   |              |
| <b>1373</b> | <b>Theoretical Bases of Language</b>   | <b>3:3:0</b> |
|             | The theoretical constructs of language including the analysis of content (semantics), form syntax, morphology and use (pragmatics of language in normal communications).   |              |
| <b>1374</b> | <b>Introduction to Deaf Studies</b>  | <b>3:3:0</b> |
|             | Historical and current trends about the deaf community, their culture and modern rehabilitative procedures and techniques.   |              |
| <b>1375</b> | <b>Language Acquisition</b>  | <b>3:3:0</b> |
|             | The study of normal language development and its changes with maturation.  |              |
| <b>2303</b> | <b>Speech Anatomy</b>  | <b>3:3:0</b> |
|             | The anatomy and physiology of the speech mechanism. Includes scientific variables of speech and voice and the perceptual phenomena that result.  |              |
| <b>2304</b> | <b>Speech Science</b>  | <b>3:3:0</b> |
|             | Basic physics of sound, instrumentation and performance in the speech sciences.  |              |
| <b>2305</b> | <b>American Sign Language I</b>  | <b>3:3:0</b> |
|             | Introduction to American Sign Language and Deaf Culture.   |              |
| <b>2371</b> | <b>Hearing Anatomy</b>   | <b>3:3:0</b> |
|             | The anatomy and physiology of the speech mechanism and the structure and function of the peripheral auditory mechanism. Also included are the central auditory pathways and scientific variables of speech and voice and the perceptual phenomena that result.   |              |
| <b>2372</b> | <b>Hearing Science</b>   | <b>3:3:0</b> |
|             | Basic physics of sound, instrumentation and performance related to audiological principles.  |              |
| <b>3301</b> | <b>Language and Phonological Disorders</b>   | <b>3:3:0</b> |
|             | An introduction to articulation and language disorders, their etiologies and therapy programs.<br><i>Prerequisites:</i> CMDS 1302, 1303 and 1305.  |              |
| <b>3302</b> | <b>Introduction to Audiology</b>   | <b>3:3:0</b> |
|             | 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.<br><i>Prerequisites:</i> CMDS 2371 and 2372. |              |
| <b>3304</b> | <b>Voice and Fluency Disorders</b>   | <b>3:3:0</b> |
|             | An introduction to fluency, voice and organic disorders in speech pathology, their etiologies and therapy programs.<br><i>Prerequisites:</i> CMDS 2303 and 2304.   |              |
| <b>3305</b> | <b>American Sign Language II</b>   | <b>3:3:4</b> |
|             | This is an intermediate course in American Sign Language and Deaf Culture.<br><i>Prerequisites:</i> CMDS 2305 and department chair approval.   |              |
| <b>4301</b> | <b>Organically Based Communication Disorders</b>   |              |
|             | An overview of speech, language, and swallowing disorders with organic etiologies.<br><i>Prerequisite:</i> CMDS 3304.  |              |

- 4302 Advanced Audiology** 3:3:0  
Hearing evaluation procedures, clinical evaluation techniques and instrumentation.  
*Prerequisite:* CMDS 3302.
- 4303 Clinical Processes**  
An overview of clinical procedures and initial interaction with clinical patients.  
*Prerequisites:* CMDS 3301 and 3304.
- 4304 Neurology** 3:3:0  
The human nervous system with particular emphasis on neuronal structures and pathways related to communication and its disorders.  
*Prerequisites:* CMDS 2371, 2372, 2303 and 2304.
- 4305 American Sign Language III** 3:3:4  
Advanced American Sign Language.  
*Prerequisite:* CMDS 3305 or department chair approval.
- 4306 Literacy and Deafness** 3:3:0  
Theoretical acquisition of reading and writing for deaf/hard of hearing children.  
*Prerequisite:* CMDS 1374
- 4326 Instructional Design of the Deaf Classroom** 3:3:0  
Cognitive, linguistic and social development of deaf individuals from infancy to adulthood and the impact on the classroom.  
*Prerequisite:* CMDS 1374.
- 4350 Problems and Projects**  
Special project course taken by supervising faculty and department chair approval.

## Department of Music, Theatre and Dance

**Interim Department Chair:** Barry W. Johnson

**106 Music Building**  
**Phone 880-8144**

**Professors:** Babin, Johnson, Mathis, Ornelas, Simmons

**Associate Professors:** Culbertson, Dyess, Ellis, Gilman, Placette

**Assistant Professors:** Draper, Felice, Lihs, Mouat

**Instructors:** Wisor

**Lecturer:** Pierce

**Adjunct Instructors:** Collier, Graham, Halverstadt, Hines, Parks, Rose, Schroeder, Wadenpfuhl-Gay, Westra, Wittry

**Artist in Residence:** de Bittencourt

**Academic Advisor:** Black

The music unit is an accredited institutional member of the National Association of Schools of Music. Three undergraduate degrees offered are: 1) Bachelor of Music in Performance; 2) Bachelor of Music in Composition; 3) Bachelor of Music (with Teacher Certification). The Bachelor of Music (with Teacher Certification) offers specialization in either Band, Choir, or Orchestra. Two graduate degrees offered are: 1) Master of Music in Performance; 2) Master of Music Education.

The Theatre unit is an accredited member of the Texas Educational Theatre Association. Four undergraduate degrees offered are: 1) Bachelor of Arts in Theatre; 2) Bachelor of Arts in Theatre (with Teacher Certification); 3) Bachelor of Science in Theatre; 4) Bachelor of Science in Theatre (with 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 (with 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. Students will be required to successfully complete seven semesters 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.

## Music Minor

Students who elect music as a minor must complete a minimum of 18 hours in music theory, applied music, or music literature, six of which must be advanced courses. Two semesters of Recital Attendance (MUSI 1170) will also be required. Music laboratory credit may be used at the discretion of the department chair. Music Education certification is not available to students who minor in music.

## 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.

## 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 credit. A student may, at the discretion of the applied music faculty, be required to re-

peat 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, 1176 or 1181) will be required to perform 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 (with Teacher Certification):** Each Bachelor of Music (with 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 1271 (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 2311-2312 .....	6
MUTY 1311-1312 .....	6	MULT 1209 .....	2
MULT 1208 .....	2	Engl Lit .....	3
MUSI 1170 .....	1†	Engl Lit or For Lang .....	3-6*
Engl Comp .....	6	Science .....	8
PHIL 1370 .....	3	American History .....	6
Math .....	6		
PEGA .....	2		
	35		36-39
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 3210-3220 .....	4	MUTY 4210-4220 .....	4
MULT 3330-3340 .....	6	MULB 1157 or 4130 .....	2††
MUSI 3350 or 3360 .....	3**	POLS .....	6
MUSI 3370 or 3380 .....	3**	Social Science .....	3
MULB 1157 or 4130 .....	2††	HLTH 1370 .....	3
COMM 1315 .....	3		
PEGA .....	2		
	35		31

\*Vocal majors are required to take six hours of foreign language, representing two different languages to be selected from German, French, or Italian. This requirement may be waived by instrumental majors who have had one year of high school foreign language.

\*\*Students will take the course appropriate to their area of specialization.

††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.

†Degree credit requires seven semesters of satisfactory completion of MUSI 1170.

\*\*\* Comp majors take major instrument Rep and Ped in first year.

## Bachelor of Music (with Teacher Certification)† (Band)

First Year		Second Year	
MUAP applied major (2 courses) .....	4	MUAP applied major (2 courses) .....	4
MULB 1176 .....	1	MULB Major Ensemble (2 courses) .....	2
MULB Major Ensemble (2 courses) .....	2	MUTY 2311-2312 .....	6
MUTY 1311,1312 .....	6	MULT 1209 .....	2
MULT 1208 .....	2	MUSI 3350 .....	3
Engl Com .....	6	Engl Lit .....	6
PHIL 1370 .....	3	Science .....	8
Math .....	6	American Hist .....	6
MUSI 1170* .....	1	POLS 2301 .....	3
	31		40
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	HLTH 1370 .....	3
MUSI 2277 .....	2	COSC 1371 .....	3
MUSI 3310 .....	3	PEDG 3326-3380 .....	6
MUSI 3110-3120 .....	2	PEDG 4340 .....	3
MUSI 3130-3140 .....	2	PEDG 4620 .....	6
MUSI 3150 .....	1	COMM 1315 .....	3
MUSI 3360 .....	3	MUSI 3270 .....	2
MUSI 3380 .....	3		
MUSI 4110-4120 .....	2		
PEDG 3310-3320 .....	6		
POLS 2302 .....	3		
	41		31

\*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 section in this bulletin.

## Bachelor of Music (with Teacher Certification)† (Orchestra)

First Year		Second Year	
MUAP applied major (2 courses) .....	4	MUAP applied major (2 courses) .....	4
MULB 1176 .....	1	MULB Major Ensemble (2 courses) .....	2
MULB Major Ensemble (2 courses) .....	2	MUTY 2311-2312 .....	6
MUTY 1311-1312 .....	6	MULT 1209 .....	2
MULT 1208 .....	2	MUSI 3350 .....	3
Eng Comp .....	6	Eng Lit .....	6
PHIL 1370 .....	3	Science .....	8
Math .....	6	Am Hist .....	6
PEGA .....	4	POLS 2301 .....	3
MUSI 1170* .....	1		

Third Year

MUAP applied major (2 courses)	4
MULB Major Ensemble (2 courses)	2
MUTY 4220	2
MULT 3330-3340	6
MUSI 3310	3
MUSI 3110-3120	2
MUSI 3130 or 3140	1
MUSI 3150	1
MUSI 3360	3
MUSI 3380	3
MUSI 4110-4120	2
PEDG 3310, 3320	6
POLS 2302	3

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Fourth Year

MUAP applied major	2
MULB Major Ensemble	1
MUTY 4210	2
HLTH 1370	3
COSC 1371	3
PEDG 3326-3380	6
PEDG 4340	3
PEDG 4620	6
COMM 1315	3

29

\*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 section in this bulletin.

Bachelor of Music (with Teacher Certification)†  
(Choral)

First Year

MUAP applied major (2 courses)	4
MULB 1176	1**
MULB Major Ensemble (2 courses)	2
MULB Opera (production)	1
MUTY 1311-1312	6
MULT 1208	2
Eng Comp	6
PHIL 1370	3
Math	6
PEGA	4
MUSI 1170*	1

36

Second Year

MUAP applied major (2 courses)	4
MULB Major Ensemble (2 courses)	2
MUTY 2311-2312	6
MULT 1209	2
MUSI 3360	3
Eng Lit	6
Science	8
American History	6
POLS 2301	3

40

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

Fourth Year

MUAP applied major	2
MULB Major Ensemble	1
MUTY 4210	2
MULB Opera (production)	1
HLTH 1370	3
COSC 1371	3
PEDG 3326-3380	6
PEDG 4340	3
PEDG 4620	6
COMM 1315	3

30

\* Degree credit requires seven semesters of satisfactory completion of MUSI 1170.

DEGREE REQUIREMENT: A student must participate in two opera productions.

\*\* 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 section in this bulletin.

## Applied Music Courses (MUAP)

(Refer to Applied Music Requirements in preceding Music Department materials for complete explanation and requirements for Applied Music courses)

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\*, 3231\*, 3421\*\* Oboe

1269\*, 3269\*, 3469\*\* Piano

1233\*, 3233\*, 3433\*\* Saxophone

1257\*, 3257\*, 3457\*\* Percussion

1213\* 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 one-hour class per week.

\*\*One hour private lesson and one one-hour class per week.

## Music Courses (MUSI)

<b>1170</b>	<b>Recital</b>	<b>1:1:0</b>
	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.	
<b>1306</b>	<b>Introduction to Music</b>	<b>3:3:0</b>
	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.	
<b>1371</b>	<b>Basics of Music</b>	<b>3:3:0</b>
	Designed to familiarize non-Music majors with basic elementary music fundamentals and skills.	
<b>2277</b>	<b>Marching Methods</b>	<b>2:2:0</b>
	Introduction to basic marching band maneuvers and marching band music. Fundamentals in drill design and charting - all styles. Introduction to computer-assisted charting. Analysis through audio-visual observation.	



<b>3110</b>	<b>Brass</b>	<b>1:1:0</b>
	Music, materials, and basic techniques for trumpet and horn.	
<b>3120</b>	<b>Brass</b>	<b>1:1:0</b>
	Music, materials, and basic techniques for trombone, baritone and tuba.	
<b>3130</b>	<b>Strings</b>	<b>1:1:0</b>
	Music, materials, and basic techniques for violin and viola.	
<b>3140</b>	<b>Strings</b>	<b>1:1:0</b>
	Music, materials, and basic techniques for cello and double bass.	
<b>3150</b>	<b>Percussion</b>	<b>1:1:0</b>
	Music, materials, and basic techniques for percussion instruments.	
<b>3270</b>	<b>Advanced Marching Methods</b>	<b>2:2:0</b>
	Advanced marching maneuvers and music. Computer assisted charting. On-campus observations. Hands-on training with campus laboratory band.	
<b>3310</b>	<b>Kodaly Concepts of Music</b>	<b>3:3:0</b>
	The study of elementary folk music, materials and techniques using the Kodaly concept. <i>Prerequisite: MUTY 1370 (or equivalent).</i>	
<b>3320</b>	<b>Advanced Kodaly Concepts of Music</b>	<b>3:3:0</b>
	The study of advanced folk Music, materials and techniques with the Kodaly concept. <i>Prerequisite: MUSI 3310 and MUTY 1370 (or equivalent).</i>	
<b>3350</b>	<b>Choral Music</b>	<b>3:3:0</b>
	A detailed study of choral music. Areas of study include history, repertoire, and performance.	
<b>3360</b>	<b>Instrumental Music</b>	<b>3:3:0</b>
	A detailed study of instrumental music. Areas of study include history, repertoire, and performance.	
<b>3370</b>	<b>Choral Conducting</b>	<b>3:3:0</b>
	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>	
<b>3380</b>	<b>Instrumental Conducting</b>	<b>3:3:0</b>
	Basic patterns and rudiments of instrumental conducting and rehearsal techniques. <i>Prerequisites: applied music, instrumental performing laboratory and MUTY 2311.</i>	
<b>4110</b>	<b>Woodwinds</b>	<b>1:1:0</b>
	Music, materials and basic techniques for flute, clarinet and saxophone.	
<b>4120</b>	<b>Woodwinds</b>	<b>1:1:0</b>
	Music, materials and basic techniques for oboe and bassoon.	
<b>4300</b>	<b>Problems and Projects in Music Education</b>	<b>3:3:0</b>
	An individual problem or project will be assigned in the music education area as necessary. <i>Prerequisite: consent of the Department Chair.</i>	
<b>4310</b>	<b>Problems and Projects in Music Literature</b>	<b>3:3:0</b>
	An individual problem or project will be assigned in the music literature area as needs arise. <i>Prerequisite: consent of the Department Chair.</i>	
<b>4320</b>	<b>Problems and Projects in Music Theory</b>	<b>3:3:0</b>
	An individual problem or project will be assigned in the music theory area as needs arise. <i>Prerequisite: consent of the Department Chair.</i>	

## Music Laboratory (MULB)\*

*MULB 1271 and MULB 1175 (for music majors only) will fulfill the PEGA requirements.*

*\*Courses in Music Laboratory may be repeated for credit. Total credit not to exceed eight semesters for any one course.*

<b>1170</b>	<b>A Cappella Choir</b>	<b>1:0:6</b>
	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.	
<b>1171</b>	<b>Cardinal Singers</b>	<b>1:0:6</b>
	Performing choral ensemble with instrumental combo accompaniment specializing in popular and folk repertoire. Audition required. Open to qualified students from other departments.	

1172	<b>Grand Chorus</b>	1:0:3
	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.	
1173	<b>Orchestra</b>	1:0:6
	A performing ensemble open to all University students who can qualify. Required of any student majoring in a string instrument.	
1175	<b>Marching Band for Music Majors</b>	1:0:6
	A professional course limited to and designed specifically for music majors.	
1177	<b>Symphonic Band</b>	1:0:6
	Performance of symphonic wind ensemble and band repertoire. Audition required for admittance.	
1271	<b>Marching Band</b>	2:0:6
	The study and performance of march music and military drill. Open to any student who can qualify. Two semesters completes PE activity requirement.	
1157	<b>Opera</b>	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 fullscale opera production. Auditions open to all qualified students.	
1174	<b>Repertoire and Pedagogy</b>	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.	
1176	<b>Class Piano</b>	1:0:1
	Class piano instruction for music majors.	
1178	<b>Dance Band</b>	1:0:3
	Organized to furnish training in all styles of dance band performance. Open to any student who can qualify.	
1179	<b>Percussion Ensemble</b>	1:0:1
	The study and performance of chamber percussion literature. Designed to provide experience on all of the percussion instruments.	
4130	<b>Chamber Music Ensemble</b>	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	<b>Music Literature I</b>	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.	
1209	<b>Music Literature II</b>	2:2:0
	A survey of the literature and advances made in music from the Medieval era to the mid-Renaissance. <i>Prerequisite: MUTY 1312.</i>	
3330	<b>Music History</b>	3:3:0
	A survey of the literature and advances made in music from Mid-Renaissance to the pre-Classical era to the present. Two hours of listening required per week in addition to class lecture. <i>Prerequisite: MULT 1208-1209 and MUTY 2311-2312.</i>	
3340	<b>Music History</b>	3:3:0
	A survey of the literature and advance made in music from the Classical era. Two hours of listening required per week in addition to class lecture. <i>Prerequisite: MULT 1208-1209 and MUTY 2311-2312</i>	

## Music Theory Courses (MUTY)

1370	<b>Elements of Music</b>	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.	

<b>1311, 1312 Elementary Harmony</b>	<b>3:5:0</b>
Elementary keyboard and written harmony, sight singing; ear training. <i>Prerequisite: MUTY 1370 or by advanced standing exam.</i>	
<b>2311, 2312 Advanced Harmony</b>	<b>3:5:0</b>
Advanced keyboard and written harmony; sight singing; ear training. <i>Prerequisite: MUTY 1312.</i>	
<b>3210, 3220 Counterpoint</b>	<b>2:2:0</b>
16th and 18th century contrapuntal techniques through analysis and creative writing. <i>Prerequisite: MUTY 2312.</i>	
<b>4210 Form and Analysis</b>	<b>2:2:0</b>
Analytical study of musical forms and styles. <i>Prerequisite: MUTY 2312.</i>	
<b>4220 Orchestration</b>	<b>2:2:0</b>
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 which 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 Comp .....	6	Engl Lit .....	6
Math .....	6	HIST 1301 and 1302 .....	6
PHIL 1370 .....	3	PEGA (Dance) .....	4
THEA 1370 .....	6	HLTH 1370 .....	3
THEA 1330 .....	3	THEA 2370 .....	6
THEA 1351 .....	3	THEA 2371 .....	3
THEA 2336 .....	3	THEA 3360 .....	3
THEA 2372 .....	3	THEA 3330 .....	3
THEA 2375 .....	3	Found OR Prof Elect .....	6

## Third Year

POLS .....	6
ARTS 1301, MUSI 1306 OR DANC 1370 .....	3
Lab Sci .....	8
THEA 3361 .....	3
THEA 4360 .....	3
THEA 4390 .....	3
THEA 3380 .....	3
Found OR Prof Elect .....	9

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## Fourth Year

COMM 1315 .....	3
PSYC 2301 OR SOCI 1301 .....	3
THEA 4371 .....	3
Found OR Prof Elec .....	21

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Note: 141 hours required for the theatre degree.

Note: For education degree, substitute second teaching field and PEDG classes for electives within each year.

## Theatre Courses (THEA)

<b>1310 Introduction to Theatre</b>	<b>3:2:3</b>
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.	
<b>1330 Stagecraft</b>	<b>3:2:3</b>
Basic course on the handling and construction of scenery, the care of stage properties and theatrical terminology. Provides hands-on experience for University productions.	
<b>1351 Acting I-Fundamentals of Acting</b>	<b>3:2:3</b>
Introductory principles and practice for basic acting training.	
<b>1352 Acting II-Stage Movement</b>	<b>3:2:3</b>
A continuation of the process of acting with emphasis on movement and vocal work. <i>Prerequisite: THEA 1351.</i>	
<b>1370 Theatre Activities</b>	
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.	
<b>2336 Voice and Diction</b>	<b>3:3:0</b>
Vocal development, vocabulary building and pronunciation skills through systematic drills and exercises.	
<b>2370 Production Crew</b>	
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>	
<b>2371 Costume Construction</b>	<b>3:2:3</b>
Basic course in costuming, utilizing theatrical construction principles and techniques. Hands-on experience in University productions.	
<b>2372 Introduction to Design for the Theatre</b>	<b>3:2:3</b>
Exploration of the visual language of the theatre through projects in basic watercolor, sculpture and drafting.	
<b>2375 Stage Make-up Principles</b>	<b>3:2:3</b>
Principles and practices in the application of stage make-up and design. Exploration and experimentation in the use of three-dimensional make-up.	
<b>3310 Auditioning</b>	<b>3:2:3</b>
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>	
<b>3320 Scenic Design</b>	<b>3:2:3</b>
concentration on hands-on design work with emphasis on composition, renderings, model-making and working drawings. <i>Prerequisite: THEA 2372 and/or Drafting.</i>	

- 3330 Stage Lighting** 3:2:3  
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.
- 3361 Theatre History I** 3:3:0  
A survey of the history of theatre from the Greeks to the 18th Century.
- 3360 Children's Theatre** 3:2:3  
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.
- 3370 Acting III-Period Styles** 3:2:3  
A historical perspective of the acting styles of the major time periods of theatrical performance. Performance oriented.  
*Prerequisite: THEA 1351, 1352.*
- 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.*
- 4390 Summer Repertory Theatre** 3:2:3  
Participation in the summer production either on stage or technically, enabling the student to work in a variety of formats before entering the professional world. May be repeated twice for credit.

## Suggested Programs of Study – Dance

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 student must have completed the English, Math, Biology, Political Science, and History General Education Requirements prior to enrolling in the 300 and 400 level dance theory courses. A grade of "C" must be earned in each of the dance theory courses.

### Bachelor of Science – Dance† Teacher Certification Program

#### First Year

Engl Comp .....	6
MATH 1314 .....	3
Math .....	3
BIOL 2401-2402 .....	8
COMM 1315 .....	3
COSC 1371 .....	3
PHIL 1370 .....	3
HLTH 1370 .....	3
DANC 1222 Folk Dance .....	2
DANC 1210 Tap Dance .....	2

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#### Second Year

Engl Lit .....	6
American Hist .....	6
POLS 2301-2302 .....	6
DANC 2370 Dance Prod .....	3
DANC 2371 Rhythmic Analysis of Dance .....	3
KINT 2371 Functional Anat & Physiology .....	3
DANC 2245 Modern Dance Tech .....	2
Second Teaching Field .....	6

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#### Third Year

PEDG 3310 Intro to American Public Ed .....	3
PEDG 4380 Secondary Methodology .....	3
PEDG 3320 Human Learning .....	3
PEDG 3326 Reading Strategies .....	3
KINT 3330 Exercise Physiology .....	4
DANC 1301 Composition .....	3
DANC 3350 Principles of Creative Dance .....	3
DANC 2241 Ballet Tech .....	2
Soc Sci .....	3
Second Teaching Field .....	9
Electives .....	2

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#### Fourth Year

PEDG 3380 Curriculum and Methodology .....	3
Classroom Management .....	3
PEDG 4620 Student Teaching-Secondary .....	6
DANC 3360 Choreography .....	3
Dance Theory Elective .....	3
DANC 4380 Dance History .....	3
Second Teaching Field .....	9
Electives .....	2

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Total 138 semester hours

*In order to develop and maintain a high technical level, dance majors are required to take ballet technique and/or modern dance technique daily 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 Comp .....	6	EngL Lit .....	3
MATH 1314 .....	3	EngL Lit (or equivalent) .....	3
Math .....	3	HIST 1301-1302 .....	6
BIOL 2401-2402 .....	8	POLS 2301-2302 .....	6
HLTH 1370 .....	3	KINT 2371 Functional Anat & Physiology .....	3
PHIL 1370 .....	3	DANC 2370 Dance Production .....	3
DANC 1222 Folk Dance .....	2	DANC 2371 Rhythmic Analysis of Dance .....	3
Dance Studio Courses .....	6	Dance Studio Courses .....	8
34		35	
Third Year		Fourth Year	
DANC 1301 Composition .....	3	DANC 3360 Choreography .....	3
DANC 3350 Principles of Creative Dance .....	3	DANC 4380 Dance History .....	3
Dance Theory Elective .....	3	Dance Theory Elective .....	6
DANC 1210 Tap Dance .....	2	Dance Studio Courses .....	8
DANC 2241 Ballet Tech .....	2	DANC 2270 Dance Company .....	2
DANC 2245 Modern Dance Tech .....	2	DANC 2170 Production Workshop .....	1
KINT 3330 Exercise Physiology .....	4	Related Electives .....	8
Soc Sci .....	3		
DANC 2270 Dance Company .....	2		
Dance Studio Course .....	2		
Related Electives .....	8		
34		31	

Total 134 semester hours

*In order to develop and maintain a high technical level dance majors are required to take ballet technique and/or modern dance technique daily each semester.*

## Bachelor of Art – Dance Major Non-Certification Program

Same as the above program except for the completion of the course numbered 2312 in a foreign language.

## Dance Studio Courses (Dan)

Dance studio courses (except 2170) will fulfill the PEGA requirements.

<b>1210 Tap Dance</b>		<b>2:1:2</b>
Instruction and practice in beginning tap dance.		
<b>1222 Folk Dance Techniques</b>		<b>2:1:2</b>
Instruction practice in beginning folk dance. Emphasis is placed upon the historical and cultural background of the various national dances.		
<b>1233 Country and Western</b>		<b>2:1:2</b>
Instruction on a wide variety of country and western dances. Partial emphasis given to class organization and teaching methods.		

1241, 1242, 2241, 2242	<b>Ballet Technique I, II, III, IV</b>	2:1:2
	Instruction and practice in ballet technique. Emphasis is placed on accurate technique and placement. May be repeated for credit.	
1245, 1246, 2245	<b>Modern Dance Technique I, II, III</b>	2:1:2
	Instruction and practice in the techniques of modern dance and composition. May be repeated for credit.	
1247, 1248, 2247	<b>Jazz I, II, III</b>	2:1:2
	Instruction and practice in jazz dance. May be repeated for credit.	
1270	<b>Selected Dance Techniques</b>	2:1:2
	Instruction and practice in selected dance techniques. May be repeated for credit.	
2170	<b>Dance Production Workshop</b>	1:1:2
	Practical application of the technical skills utilized in dance production including lighting, scenery and costuming. May be repeated for credit.	
2270	<b>Dance Company</b>	2:1:5
	Rehearsal and Performance of a variety of dance styles. May be repeated for credit.	
2272	<b>Aerobic Dance</b>	
	Fitness Dance Class designed to improve cardiovascular endurance, strength, coordination and flexibility.	
2273	<b>Improvisation</b>	
	this course teaches improvisation as a creative dance technique for designing new movement. Stimulating and selecting movement materials as preparation for composition and choreography.	
2274	<b>Social Dance</b>	2:1:2
	An introduction to partner, line and round dance forms of the 20th century.	

## Dance Theory Courses (Dan)

1301	<b>Composition</b>	3:2:1
	The analysis of the basic elements of dance composition, with emphasis on skilled use of space, dynamics and rhythms to design original forms.	
1370	<b>Dance Appreciation</b>	
	A survey of the field of dance, with emphasis on the various styles, historical development and current issues. Requires observation of live performances and classes.	
2370	<b>Dance Production</b>	3:2:1
	The study and practical application of the various elements utilized in dance production including lighting, scene design, costuming and publicity.	
2371	<b>Rhythmic Analysis of Dance</b>	3:2:1
	The analysis of movement in relationship to rhythmic patterns, meter, tempo, metric pulse, accents and melodic phrasing.	
3301	<b>Theatre Dance Forms</b>	3:1:2
	The study of various dance forms utilized in the theater including character dance.	
3310	<b>Dance Notation</b>	3:2:1
	The study of the primary forms of dance notation including Labanotation and Benesh notation and its application to various dance forms.	
3350	<b>Principles of Creative Dance</b>	3:3:0
	The study of creative exploration in a constructive and positive environment for children.	
3360	<b>Choreography</b>	3:2:1
	Practical experience in building total artistic compositions both solo and group. Basic music and dance forms are used as a basis for more complex choreography.	
	<i>Prerequisite: DANC 1301</i>	
4380	<b>Dance History: Primitive Through 20th Century</b>	3:3:0
	The evolution of dance from prehistoric times to current social and theatrical forms.	





***Music Department faculty members from the College of Fine Arts and Communication perform throughout Southeast Texas as well as teach.***

## College of Graduate Studies

**Robert D. Moulton, Ph.D., Associate Vice President  
for Research and Dean of Graduate Studies**

**103 Wimberly Bldg.  
Phone 880-8230**

### 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 Arts (Art History)

#### **Master of Business Administration**

General Emphasis

#### **Master of Education in**

Elementary Education, Counseling and Development, Secondary Education, Special Education, Supervision, Administration

#### **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**

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

#### **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 May 15 for Fall semester, October 1 for Spring, and February 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. 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 this Bulletin 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  $(GPA \times 200) + (GRE V + Q) \geq 1350$ . 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 which exceed the institutional minimum. See the department sections of this catalog for admission standards which vary from the institutional minimum.

**C. GMAT Scores.** Admission to the Master of Business Administration (MBA) program is based in part on a formula which considers both the undergraduate GPA and the GMAT score. See the College of Business section of this 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 in this 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 which 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 before admission can be granted. 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.

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 which 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 this catalog.

Prospective 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 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 this catalog.

Nondegree students interested in Post Baccalaureate or Pre Graduate admission should refer to the Graduate Catalog for details.

# 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
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AM 1257	MUAP1213	ANT 232	ANTH2372	ART 4328	ARTS4328
AM 1261	MUAP1245	ANT 235	ANTH2302	ART 4331	ARTS4331
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AM 1271	MUAP1205	ANT 434	ANTH4340	ART 4341	ARTS4341
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AM 1281	MUAP1281	ART 132	ARTS1317	ART 4348	ARTS4348
AM 1283	MUAP1283	ART 133	ARTS1311	ART 4353	ARTS4353
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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

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ART 4398	ARTS4398	BIO 346	BIOL3460	C&D 5312	CNDV5312
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CJ 1306	CRIJ1306	COM 338	COMM3380	CS 4319	COSC5321
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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

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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
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DAN 2280	DANC2274	EE 3305	ELEN3331	EGR 5313	ENGR5313
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DAN 233	DANC2371	EE 337	ELEN3371	EGR 5315	ENGR5315
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DRDG1301	DRDG0371	EE 431	ELEN3322	EGR 5329	ENGR5329
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DWRT1301	DWRT0371	EE 436	ELEN4351	EGR 5330	ENGR5331
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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
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ECO 336	ECON3306	EGR 230	ENGR2301	EGR 5348	ENGR5348
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ECO 339	ECON3390	EGR 234	ENGR2374	EGR 5351	ENGR5344
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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	FBED4348
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	ENGL3320	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	MULB1271	MTH 5303	MATH5303
MGT 432	MGMT4320	MLB 210	MULB1157	MTH 5304	MATH5304
MGT 433	MGMT4330	MLB 413	MULB4130	MTH 5308	MATH5308
MGT 434	MGMT4340	MLT 121	MULT1208	MTH 531	MATH5310
MGT 437	MGMT4370	MLT 222	MULT1209	MTH 5310	MATH5311
MGT 439	MGMT4390	MLT 333	MULT3330	MTH 5311	MATH5312
MGT 530	MGMT5310	MLT 334	MULT3340	MTH 532	MATH5320
MGT 531	MGMT5320	MLT 536	MULT5360	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	MATH5391	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	MUSI3110	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	SOCI4380
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	SOCI2301	SWK 4324	SOWK4324
POLS433	POLS4330	SOC 235	SOCI2375	SWK 438	SOWK4380
POLS434	POLS4340	SOC 331	SOCI3310	THE 130	THEA1370
POLS435	POLS4350	SOC 3311	SOCI3311	THE 131	THEA1310
POLS437	POLS4370	SOC 332	SOCI3320	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	SOCI3390	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	SOCI4310	THE 333	THEA3330
PSY 336	PSYC3360	SOC 432	SOCI4320	THE 336	THEA3361
PSY 342	PSYC3420	SOC 434	SOCI4340	THE 3360	THEA3360



THE 337	THEA3370	THE 434	THEA5340	THE 438	THEA4380
THE 338	THEA3380	THE 435	THEA4350	THE 438	THEA5380
THE 339	THEA3390	THE 435	THEA5349	THE 439	THEA4390
THE 430	THEA4300	THE 436	THEA4360	THE 439	THEA5399
THE 430	THEA5300	THE 437	THEA4370	THE 5325	THEA5325
THE 431	THEA4310	THE 437	THEA5370	THE 533	THEA5330
THE 431	THEA5310	THE 4371	THEA4371	THE 5350	THEA5350
THE 434	THEA4340	THE 4371	THEA5371	THE 669A	THEA5390
				THE 669B	THEA5391

# Directory of Personnel 1998-2000

## Board of Regents

Elizabeth T. Nash, Chairman (1999) .....	San Marcos
Craig H. Vittitoe, Vice Chairman (1999) .....	Harlingen
John P. Hageman (2003) .....	Round Rock
Thomas M. Moeller (2001) .....	Beaumont
Nancy R. Neal (2003) .....	Lubbock
Floyd Nickerson (2003) .....	Abilene
Pollyanna A. Stephens (2001) .....	San Angelo
Macedonio Villarreal (2001) .....	Sugarland
Ray Zapata (1999) .....	Christoval

Lamar G. Urbanovsky, Chancellor

## University Administration

Rex L. Cottle, Ph.D., *President*

William G. Cale, Ph.D., *Executive Vice President for Academic Affairs*

Susan K. Tellier, M.B.A., *Vice President for Finance and Operations*

James M. Simmons, Ed. D., *Dean, College of Fine Arts and Communication and Interim Executive Director for Institutional Advancement*

Kevin B. Smith, Ph.D., *Associate Vice President for Academic Affairs*

Kurt Czupryn, Ph.D., *Vice President for Student Affairs*

W. Brock Brentlinger, Ph.D., *Assistant to the President*

W. Dean Billick, M.S., *Athletic Director*

## Academic Administration

Fuseler, Elizabeth, M.S., *Director of Library Services*

\_\_\_\_\_, *Registrar*

McAdams, LeBland, Ph.D., *Dean, College of Education and Human Development*

Moore, Gary, Ph.D., *Dean, College of Business*

Moulton, Robert, Ph.D., *Associate Vice President for Research and Dean of Graduate Studies*

Simmons, James M., Ed.D., *Interim Executive Director for Institutional Advancement and Dean, College of Fine Arts and Communication*

Shillingsburg, Miriam J., Ph.D., *Dean, College of Arts and Sciences*

Trammell, Janice, M.S., *Executive Director of Public Services and Continuing Education*

Young, Fred M., Ph.D., *Dean, College of Engineering*

## Principal Administrative Staff

Asteris, Mark, *Director, Media Services, Library*

Bell, Robert, *Assistant Vice President for Information Services*

Baker, Twilla, *Director of Internal Audit*

Beverley, George, *Station Manager, KVLU-FM Radio*

Bivins, Stephan, *Director, Recreational Sports*

Blaisdell, Frank, *Supervisor of Parking Office*

**Boykin, Bonnie**, *Executive Director, Alumni Association*  
**Bradberry, Arthur**, *Hazardous Waste Coordinator*  
**Brott, Richard**, *Director of Telecommunications*  
**Chesser, Melissa**, *Director of Recruitment*  
**Chiama, Joe**, *Director of Food Services*  
**Cook, Bernie**, *Manager, Warehouse and Property Control*  
**Davis, Tamara**, *Director of Learning Skills*  
**Drane, Sandra**, *Director of International Student Services*  
**Droddy, Frances**, *Director, Early Childhood Development Center*  
**Duhon, Patricia**, *Director, Institutional Research and Reporting*  
**Evans, Reed**, *Controller and Assistant Vice President for Finance*  
**Fluth, John, Ph.D.**, *Director, Texas Acadamey for Leadership in the Humanities*  
**Fondren, Darrell L.**, *Director of Veterans Affairs/Evening Services*  
**Fontenot, Dale**, *Chief of University Police*  
**Gandy, Leigh**, *Manager, Center for General Studies*  
**Garlick, Starla**, *Director, Non-Credit Programs*  
**Green Barry**, *Operations Manager, Montagne Center*  
**Halverstadt, Donald**, *Director, Computer Center*  
**Hubacek, John**, *Director, Center for Industrial Fire and Hazardous Materials Training*  
\_\_\_\_\_, *Registrar*  
**Johnson, Barry**, *Director of Bands*  
**Juhan, Gerry**, *Counselor, Testing and Career Services*  
\_\_\_\_\_, *Director of Housing*  
**Lokensgard, Lynne**, *Director, Dishman Art Gallery*  
**McCaig, Gerald**, *Director, Physical Plant*  
**Nystrom, Ellen**, *Interim Director of Student Financial Aid*  
**Pearson, Edwin A.**, *Director of Internal Services/Printing*  
**Perkins, Howard**, *Director of Student Publications*  
**Rice, Ray E.**, *Safety Coordinator*  
**Russell, JoAnn**, *Director, Human Resources*  
**Rush, James C.**, *Director of Academic Services*  
**Thames, Dorothy Faye**, *Director of Developmental Studies*  
**Thomas, Karen**, *Director, Setzer Student Center*  
**Trahan, Callie**, *Coordinator, Services for Students with Disabilities*  
**Trammell, Janice**, *Executive Director, Public Services and Continuing Education*  
**Turco, Charles P.**, *Director of Special Programs*

## Faculty 1998-2000

The following list reflects the status of the Lamar University faculty as of Spring 1998. The date after each name is the academic year of first service to the University and does not necessarily imply continuous service.

**Alcazar, Sandy**, 1991, *Clinical Instructor of Speech & Hearing*  
B.S., Illinois State University; M.S., Lamar University  
**Akers, Hugh A.**, 1977, *Professor of Chemistry*  
B.S., University of California, Riverside; Ph.D., University of California - Berkeley  
**Alexander, Joe L.**, 1994, *Instructor of Music*  
B.M., East Carolina University, M.M., James Madison University;  
D.M.A., University of North Texas

- Allen, Virginia M.**, 1990, *Assistant Professor, Library Systems Coordinator*  
B.A., University of Missouri, Kansas; M.L.S., Emporia State University
- Allen, Charles L.**, 1979, *Professor of Economics*  
B.A., East Texas State University; M.A., Ph.D., University of Arkansas
- Allen, Joel L.**, 1960, *Assistant Professor of Economics*  
B.S., Arkansas Agricultural and Mechanical College; M.S., Baylor University
- Allin, Shawn B.**, 1996, *Assistant Professor of Chemistry*  
B.Sc., University of Waterloo; Ph.D., University of Alabama System
- Altomose, John R., Jr.**, 1973, *Professor of Criminal Justice*  
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
- Anderson, Ross S.**, 1995, *Assistant Professor of Biology*  
B.A., Austin College; M.B.S. University of Colorado; Ph.D., Baylor College of Medicine
- Andreev, Valentin V.**, 1990, *Assistant Professor of Mathematics*  
B.M., M.M., University of Sofia; Ph.D., University of Michigan
- Andrews, Jean F.**, 1988, *Associate Professor of Deaf Education*  
B.A., Catholic University of America; M.Ed., Western Maryland College;  
Ph.D., University of Illinois
- Ashcraft, David L.**, 1997, *Executive in Residence, Industrial Engineering*  
B.S., M.S., North Carolina State University
- Asteris, Mark M.**, 1985, *Assistant Professor, Media Services Coordinator*  
B.A., King's College; M.L.S., Villanova University
- Babin, L. Randolph**, 1968, *Regents' Professor of Music, Director of Choral Activities*  
B.M.Ed., M.M.Ed., Ph.D., Louisiana State University
- Baker, B. Joanne**, 1981, *Assistant Professor of Mathematics*  
B.A., Lamar University; M.A., Ph.D., University of Texas at Austin
- Baker, Mary Alice**, 1969, *Associate Professor of Communication*  
B.S., M.A., University of Oklahoma; Ph.D., Purdue University
- Bandyopadhyay, Soumava**, 1992, *Associate Professor of Marketing*  
B.S., Jadavpur University; Ph.D., University of Alabama
- 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
- Barnes, James**, 1996, *Lecturer, Volleyball Coach*  
B.S., M.E., McNeese State University
- Barnett, Bradley A.**, 1994, *Instructor of Communication*  
B.A., Moorehead State University; M.A., Stephen F. Austin State University
- Barrett, Chad**, 1992, *Lecturer in PEGA and Health, Director of Health Programs*  
B.S., M.Ed., Lamar University-Beaumont
- Barton, Joel E. III**, 1987, *Associate Professor of Health*  
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
- Biggers, Brian**, 1995, *Lecturer and Assistant Baseball Coach*  
B.S., Northwestern State Oklahoma
- Birdwell-Pheasant, Donna**, 1984, *Professor of Anthropology*  
B.A., M.A., Ph.D., Southern Methodist University

- Blackwell, E. Harold**, 1990, *Professor of Kinesiology; Chair, Department of Health and Kinesiology*  
B.S., Delta State University; M.Ed., Memphis State University;  
Ed.D., University of Southern Mississippi
- Boatwright, J. Douglas**, 1986, *Associate Professor of Kinesiology; Coordinator of Academic Programs*  
B.S., University of Alabama at Birmingham; M.S., Ph.D., Louisiana State University
- Brannan, Sandra**, 1997, *Instructor of Nursing*  
B.S.N., University of Texas Medical Branch at 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
- Brunell, Mark S.**, 1997, *Assistant Professor of Biology*  
B.A., M.A., California State University, Fullerton; Ph.D., University of California, Riverside
- Brust, Melvin F.**, 1978, *Professor of Finance*  
B.S.E.E., M.S.E.E., University of Texas; Ph.D., North Texas State University;  
Registered Professional Engineer
- 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
- Burke, Charles M.**, 1970, *Professor of Professional Pedagogy; Director, Professional Services and Advisement, College of Education and Human Development*  
B.A., Southeastern Louisiana University; M.Ed., Louisiana State University;  
Ed.D., University of Southern Mississippi
- Cale, William G.**, 1994, *Executive Vice President for Academic Affairs; Professor of Biology*  
B.S., Pennsylvania State University; Ph.D., University of Georgia
- Carey, Holly Romero**, 1997, *Lecturer in English*  
B.A., Lamar University M.A., New Mexico State University
- Carlin, Dewey R., Jr.**, 1958, *Associate Professor in the Department of Electrical Engineering*  
B.S., Lamar University; M.S., University of Texas
- Carroll, Anita**, 1986, *Assistant Professor of Nursing*  
B.S.N., M.S.N., West Texas State University; Registered Nurse
- 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, *Wallis Chair Visiting Professor and Associate Professor of Art*  
B.B.A., Lamar University
- Castillón, 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
- Chalambaga, Michael**, 199, *Director of Infomatics and Adjunct Instructor of Nursing*  
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
- 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

**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 Physical Education and Assistant 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

**Collins, Barry**, 1991, *Lecturer in Physical Education; Head Track Coach*

B.S., M.S., Lamar University

**Commander, Emily Sue**, 1985, *Lecturer in Developmental Mathematics*

B.S., M.S., Lamar University

**Cooper, Mark**, 1984, *Associate Professor of Professional Pedagogy*

B.S.E., M.S.E., Henderson State University; Ph.D., Georgia State University

**Cooper, Roger W.**, 1979, *Professor of Geology; Chair, Department of Geology*

B.A., University of South Dakota; M.S., University of Wisconsin-Madison; Ph.D., University of Minnesota

**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

**Cox, Carey F.**, 1998, *Assistant Professor of Mechanical Engineering*

B.S., M.S., Louisiana Tech University; Ph.D., Mississippi State University

**Crawford, Carolyn**, *Associate Professor of Educational Leadership; Chair, Department of Educational Leadership*

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

**Culbertson, Robert M., Jr.**, 1974, *Associate Professor of Music*

B.M., M.M., Northern Illinois University; D.M.A., University of Texas

**Daignepond, Lloyd M.**, 1981, *Professor of English*

B.A., M.A., Ph.D., Louisiana State University

**Dahm, Molly**, 1996, *Instructor of Family and Consumer Sciences*

B.A., University of Georgia; B.S., M.S., Florida International University

**Davis, Terri B.**, 1996, *Assistant Professor of Political Sciences*

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

**Deal, Randolph E.**, 1990, *Associate Professor of Communication, Director of Speech and Hearing Center*

B.A., Oklahoma State University, M.C.D., University of Oklahoma Health Sciences Center, Ph.D., University of Oklahoma Health Sciences Center

**de Bittencourt, Julio C.**, 1988, *Artist in Residence of Dance, Moody Lecturer in Dance*

**DeLuke, Patricia**, 1992, *Instructor in Communication, Clinical Supervisor*

B.S., M.S., Texas Women's University

**Denham, Michael T.**, 1990, *Assistant Professor of Music*

B.M., Wheaton College, M.Th., Dallas Theological Seminary, M.M., University of Illinois

**Diaz, Manuel A.**, 1997, *Assistant Professor of Civil Engineering*

B.S., M.S., National University of Engineering, Lima, Peru; Ph.D., University of Texas at Austin; Registered Professional Engineer

**Dietert, Linda R.**, 1995, *Assistant Professor, Reference Services Coordinator*

B.A., University of Texas at Arlington; M.L.S., University of North Texas

- Dodson, Kevin**, 1991, *Associate Professor of Philosophy*  
B.A., University of Washington; Ph.D., University of Massachusetts.
- Doerschuk, Peggy Israel**, 1993, *Associate Professor of Computer Science*  
B.S., University of Southwestern Louisiana; Ph.D., Tulane University
- Doiron, Jesse**, 1997, *Instructor in ESL/Director, Lamar Language Institute*  
B.A., M.A., Lamar University
- Dorris, Kenneth L.**, 1965, *Associate Professor of Chemistry*  
B.S., Ph.D., University of Texas
- Drapeau, Richard A.**, 1983, *Professor of Business Statistics*  
B.S., Arizona State University; M.B.A., Lamar University; Ph.D., Texas A&M University
- Draper, Kelly**, 1991, *Assistant Professor of Theatre*  
A.A., Howard College; B.S., M.A., Southwest Texas State University
- Draženović**, (see Peruničić-Draženović)
- Drury, Bruce R.**, 1971, *Regents Professor of Political Science*  
M.B.A., M.A., University of Nebraska; Ph.D., University of Florida
- DuBose, Elbert T., Jr.**, 1974, *Associate Professor of Political Science*  
B.A., Southwest Texas State University; M.A., Texas Tech University;  
Ph.D., University of Oklahoma
- Dugger, Linda J.**, 1970, *Associate Professor, Acquisitions Coordinator*  
B.A., M.L.S., North Texas State University
- Dunlap, Carla**, 1989, *Lecturer of Developmental Reading*  
B.A., M.Ed., Lamar University-Beaumont
- Dyess, J. Wayne**, 1977, *Associate Professor of Music*  
B.M., Stephen F. Austin State University; M.M., Catholic University of America;  
Ed.D., University of Houston
- Eisen, Sarajane**, 1996, *Instructor of Family and Consumer Sciences*  
B.S., University of Texas at Austin; M.S., Lamar University
- Elliff, Connie Jo**, 1976, *Associate Professor of Family and Consumer Sciences*  
B.S., Southwest Texas State University; M.S., Kansas State University;  
Ph.D., Texas A&M University; Registered Dietitian
- Ellis, Kim B.**, 1990, *Associate Professor of Music*  
B.M.E., Illinois Wesleyan University; M.M., Bowling Green State University;  
D.M.A., Ohio State University
- Esperat, Christina**, 1995, *Associate Professor of Nursing*  
B.S.N., M.A.N., Silliman University; Ph.D., University of Texas at Austin; Registered Nurse
- Esser, Christine Bridges**, 1992, *Assistant Professor of Spanish*  
B.A., M.A., University of Texas at El Paso; Ph.D., Vanderbilt University
- Esser, James K.**, 1976, *Professor of Psychology*  
B.S., University of Iowa; Ph.D., Indiana University
- Fang, Xing**, 1995, *Assistant Professor of Civil Engineering*  
B.S., Tsinghua University; M.S., Ph.D., University of Minnesota
- Felice, Frank**, *Assistant Professor of Music*
- Fitzpatrick, Jr., Oney D.**, 1991, *Associate Professor of Psychology*  
B.A., College of Wooster; M.A., University of Dayton; Ph.D., University of Houston
- Fitzpatrick, Philip M.**, 1978, *Associate Professor of Art*  
B.F.A., M.F.A., Auburn University
- Ford, Allan M.**, 1993, *Research Professor in Chemical Engineering*  
B.S., Iowa State University; Ph.D., Kansas State University
- Foreman, Myers L.**, 1985, *Assistant Professor of Computer Science*  
B.S., M.S., Lamar University; M.S., University of Southwestern Louisiana

- Franklin, Thomas Claiborn**, 1992, *Instructor of Audiology*  
B.A., M.A., Auburn University; Ph.D., Florida State University
- Frazier, Robert L.**, 1974, *Professor of Criminal Justice*  
B.S., M.A., Ph.D., Sam Houston State University
- Fritze, Ronald H.**, 1984, *University Professor of History*  
B.A., Concordia College; M.A., M.L.S., Louisiana State University;  
Ph.D., University of Cambridge
- Fuseler, Elizabeth A.**, 1995, *Professor, Director of Library Services*  
A.B., College of William and Mary; M.S., Drexel University
- Gilligan, James P.**, 1972, *Instructor of Physical Education, Head Baseball Coach*  
B.S., M.S., Lamar University
- Gilman, Kurt Ardee**, 1986, *Associate Professor of Music*  
B.M., Eastman School of Music; M.M., Texas Tech University; DMA, University of Texas
- Godkin, Jennie**, 1995, *Instructor of Nursing*  
B.S.N., Lamar University; M.S.N., University of Texas Medical Branch-Galveston;  
Registered Nurse
- Godkin, Roy Lynn**, 1981, *Professor of Management; Chair, Department of Management and Marketing*  
A.B., Bethany Nazarene College; M.R.E., Nazarene Theological Seminary; M.A., The University of Illinois at Springfield; Ph.D., The University of North Texas
- Gonthier, Kieth A.**, 1998, *Assistant Professor of Mechanical Engineering*  
B.S., Louisiana State University; M.S., Auburn University; Ph.D., University of Notre Dame
- Gonzales, Ramon**, 1988, *Lecturer in Speech Pathology and Audiology*  
B.S., M.S., Lamar University
- Goulas, Fara**, 1975, *Assistant Professor of Education*  
B.A., Lamar University; M.A., University of Colorado; Ed.D., McNeese State University
- Green, Alexia**, 1988, *Associate Professor of Nursing; Chair, Department of Nursing*  
B.S.N., University of Texas Medical Branch at Galveston; M.S.N., University of Texas Health Science Center at Houston; Ph.D., Texas Woman's University; Registered Nurse
- Griffith, Kimberly**, 1997, *Assistant Professor of Professional Pedagogy*  
B.S., M.Ed., Ph.D., University of Southern Mississippi
- Griffith, Paul A.**, 1997, *Assistant Professor of English*  
B.A., M. Phil., The University of the West Indies; Ph.D., The Pennsylvania State University
- Guidici, Cynthia**, 1996, *Lecturer in English*  
B.A., M.Ed., Ph.D., University of North Texas
- Guidici, Guy**, 1996, *Lecturer in English*  
B.A., Austin College; M.A., University of North Texas
- Gwin, Howell, H., Jr.**, 1962, *Professor of History*  
B.A., M.A., Ph.D., Mississippi State University
- Gwynn, Robert S.**, 1976, *University Professor of English*  
B.A., Davidson College; M.A., M.F.A., University of Arkansas
- Haiduk, Michael W.**, 1983, *Professor of Biology*  
B.S., M.S., Texas A&M University; Ph.D., Texas Tech University
- Haidusek, Harrabeth**, 1997, *Lecturer in English*  
B.A., M.A., Lamar University
- Hall, Iva**, 1985, *Assistant Professor of Nursing*  
B.S.N., University of Central Arkansas; M.S.N., University of Central Arkansas;  
Registered Nurse
- Hansen, Keith C.**, 1967, *Professor of Chemistry*  
B.S., Lamar University; Ph.D., Tulane University



- Harrel, Richard C.**, 1966, *Professor of Biology*  
B.S., East Central State College; M.S.Ed., University of Georgia;  
Ph.D., Oklahoma State University
- Harrigan, W. Patrick, III**, 1969 *Associate Professor of Communication*  
B.S., Loyola University; M.F.A., Tulane University; Ph.D., Louisiana State University
- Harvill, John B.**, 1984, *Associate Professor of Computer Science*  
B.A., M.A., North Texas State University; Ph.D., Southern Methodist University
- Harvill, John F.**, 1965, *Assistant Professor of Mathematics*  
B.S., M.S., Northwestern State University of Louisiana
- Haven, Sandra L.**, 1973, *Professor of Professional Pedagogy*  
B.S., Lamar University; M.A., Central Michigan University; Ed.D., University of Houston
- Hawkins, Charla J.**, 1982, *Lecturer in Developmental Mathematics*  
B.B.A., M.S., Lamar University
- Hawkins, Charles F.**, 1966, *Regents' Professor of Economics; Chair, Department of Economics and Finance*  
B.A., Lamar University; M.A., Ph.D., Louisiana State University
- Hawkins, Emma**, 1995, *Assistant Professor of English*  
B.A., Oklahoma Baptist University; M.A., Ph.D., University of North Texas
- Healey, Deborah A.**, *Instructor in Management*  
B.S., The University of Texas at Austin; M.B.A., Lamar University
- Henry, Lula**, 1987, *Associate Professor of Professional Pedagogy*  
B.S.E., Paul Quinn College; M.S.Ed., Arkansas State University; Ed.D., University of Missouri
- Ho, Tho-Ching**, 1982, *Professor of Chemical Engineering*  
B.S., National Taiwan University; M.S., Ph.D., Kansas State University;  
Registered Professional Engineer
- Hodges, Stephen L.**, 1990, *Associate Professor of Art*  
M.F.A., University of Arkansas; B.S., Lamar University
- Holmes, William**, 1995, *Associate Professor of Educational Leadership*  
B.A., Oklahoma Baptist University; Th.M., Baptist Theological Seminary;  
Ph.D., University of Southern Mississippi
- Hopper, Jack R.**, 1969, *Professor of Chemical Engineering; Chair, Department of Chemical Engineering*  
B.S., Texas A&M University; M.Ch.E., University of Delaware;  
Ph.D., Louisiana State University; Registered Professional Engineer
- Hunt, Madelyn D.**, 1973, *Professor of Biology; Academic Director, Center for General Studies and Central Advising*  
B.S., Lamar University; M.P.H., Dr.P.H., University of Texas School of Public Health;  
Registered Medical Technologist (A.S.C.P.)
- Irwin, George M.**, 1997, *Assistant Professor of Physics*  
B.S., Case Western Reserve University; M.S., Ph.D., The Ohio University
- Jack, Meredith M.**, 1977, *Associate Professor of Art*  
B.F.A., University of Kansas; M.F.A., Temple University
- Johnson, Barry W.**, 1983, *Professor of Music; Director of Bands; Chair, Department of Music, Theatre and Dance*  
B.M.E., M.A., Sam Houston State University; Ed.D., University of Houston
- Johnson, Byron R.**, 1995, *Professor of Criminal Justice; Director, Center for Justice Research and Education*  
B.A., Minot State University; M.A., University of Tennessee;  
M.S., Middle Tennessee State University; Ph.D., Florida State University
- Johnson, William**, 1997, *Assistant Professor of Kinesiology*  
B.S., California Poltechnic State University; M.A., Stanford University; Ph.D., University of New Mexico

- Jolly, Sonny**, 1971, *Professor of Health and Kinesiology*  
B.S., M.S., Lamar University; M.Ed., Stephen F. Austin State University;  
Ed.D., North Texas State University
- Jones, Richard W.**, 1975, *Professor of Accounting; Chair, Department of Accounting*  
B.S.C., Texas Christian University; M.A., University of Alabama;  
Ph.D., University of Arkansas; Certified Public Accountant
- Jordan, Donald L.**, 1979, *Professor of Management Information Systems*  
B.S., East Texas Baptist College; B.S., Lamar University;  
M.S., Air Force Institute of Technology; Ph.D., University of Houston
- Jordan, Jim L.**, 1982, *Professor of Geology*  
B.S., Lamar University; Ph.D., Rice University
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