

LAMAR UNIVERSITY • BEAUMONT

general catalog 1992-1994 .



New Admission Requirements for Fall 1993

New admission requirements become effective for Fall 1993. In addition to the attainment of a high school diploma from an accredited high school and successful completion of 14 "solid" credits, unconditional admission will also require that applicants be in the **TOP QUARTER** of their high school classes or **achieve a minimum** composite score on the SAT/ACT as follows:

Rank in high school class by quarter	SAT/ACT minimum
1st quarter	no minimum
2nd quarter	800/20
3rd quarter	900/21
4th quarter	1000/24

A very limited number of applicants who do not meet these prerequisites may be admitted on "individual approval." Provisional admission will **NOT** be available for Fall 1993.

Also, firm application deadlines will be announced for Fall 1993 admission. All applications and test scores for Fall 1993 must be on file before the deadlines. Applicants whose files are not complete by the deadline will **NOT** be admitted.

CONTACT THE ADMISSIONS OFFICE (409) 880-8888 or 1-800-458-7558 for information regarding deadlines and requirements for Fall 1993 admission. SEE 1993 SUPPLEMENT FOR ADDITIONAL INFORMATION.



LAMAR UNIVERSITY BEAUMONT

1992-94 Catalog • Volume 41 Number 1

Forty-first catalog issue with announcements for 1992-94.

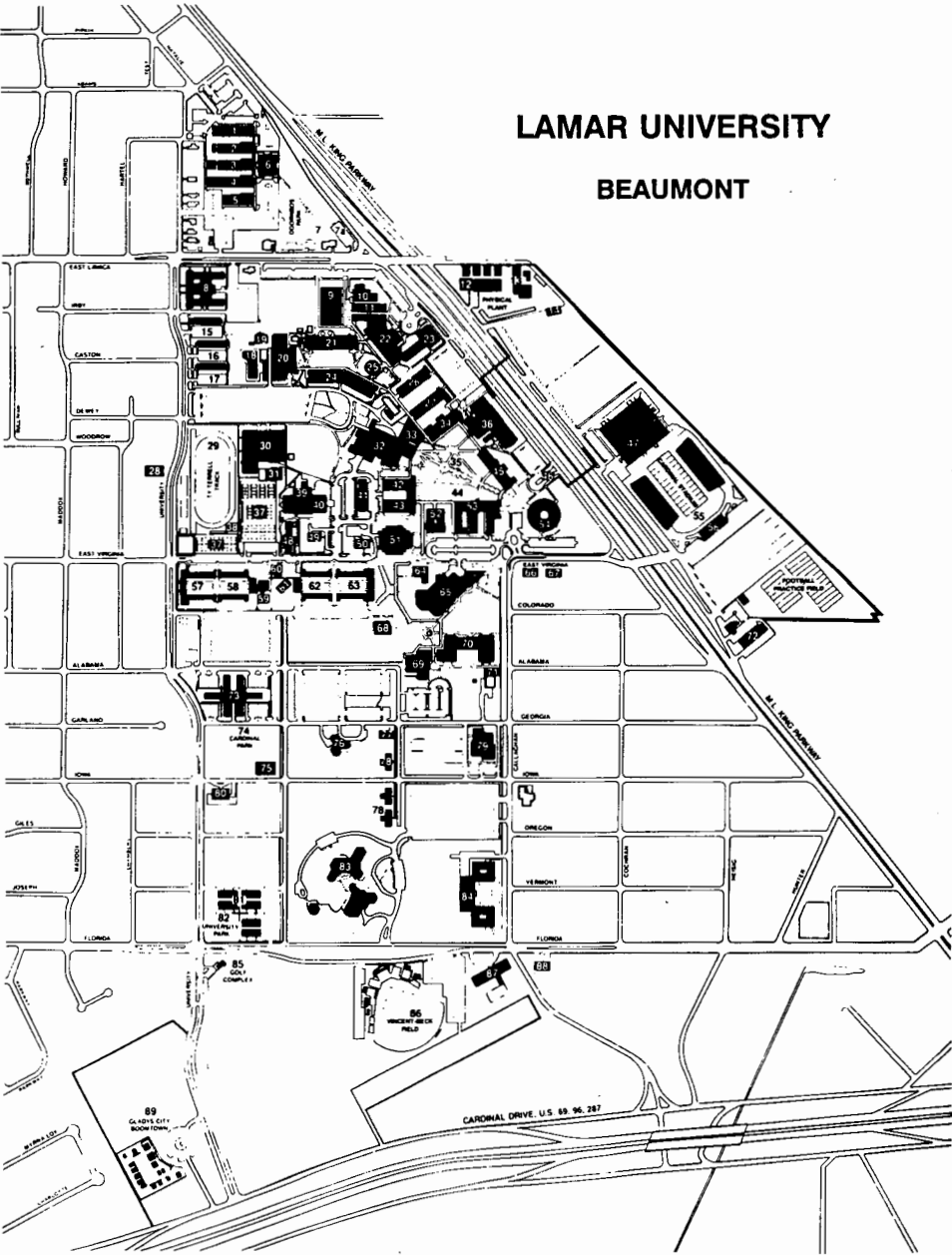
Founded in 1923, and established as a four-year coeducational state-supported college on September 1, 1951.

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

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

Catalog of Lamar University (USPS 074-420).

Third class postage paid at Beaumont, Texas 77710.



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Administration (Plummer Bldg.)	54
Alumni House	49
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Art Building	11
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1992-93 Calendar

Fall Semester - 1992

August 1992

- 18 Orientation Day
- 19 Residence halls open at 1:00 p.m.
Dining halls open at 4:30 p.m.
- 20 Late Registration
- 21 Late 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 1992 graduation begin

September

- 7 Labor Day - no classes
- 9 Twelfth Class Day

October

- 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)
- 28 Last day to apply for December graduation
(undergraduates)
Last day to pay for diploma, cap and gown

November

- 9 Registration for Spring semester begins
- 12 Last day to drop or withdraw
- 25 Thanksgiving recess begins at 10:00 p.m.
Dining halls close at 6:00 p.m.
Residence halls close at 6:00 p.m.
- 29 Residence halls open at 1:00 p.m.
Dining halls open at 4:30 p.m.
- 30 Classes resume at 7:00 a.m.

December

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

AUGUST

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SEPTEMBER

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Spring Semester - 1993

January 1993

- 7 Orientation Day
- 10 Residence halls open at 1:00 p.m.
Dining halls open at 4:30 p.m.
- 11 Late Registration
- 12 Late Registration
- 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 1993 graduation begin
- 29 Twelfth Class Day

February

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

March

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

April

- 9 Good Friday — no classes
- 12 Registration for Summer and Fall Semesters begin
- 12 Last day to drop or withdraw

May

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

JANUARY

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Summer Session - 1993
First Term

May

- 27 Orientation Day
- 28 Late Registration
- 31 Residence halls open at 1:00 p.m.
Dining halls open at 4:30 p.m.

June

- 1 Classes begin - schedule revisions and/or late registration with penalty fee
- 2 Application for August 1993 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)
- 14 Last day to drop or withdraw without academic penalty
Last day to petition for no grade
- 22-23 Orientation Days
- 29 Last day to drop or withdraw

July

- 1 Last day to apply for August graduation (undergraduates)
Last day to pay for diploma, cap and gown
- 5 Independence Day observance — no classes
- 7 Last class day
- 8 All grades due by 4:00 p.m.

JUNE

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Summer Session - 1993
Second Term

July

- 7 Late 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
- 13-14 Orientation Days
- 21 Last day to drop or withdraw without academic penalty
Last day to petition for no grade
- 27-28 Orientation Days

August

- 5 Last day to drop or withdraw
- 12 Last class day
Dining halls 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

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1993-94 Calendar

Fall Semester - 1993

August 1993

- 17 Orientation Day
- 18 Residence halls open at 1:00 p.m.
Dining halls open at 4:30 p.m.
- 19 Late Registration
- 20 Late 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 1993 graduation begin

September

- 6 Labor Day - no classes
- 8 Twelfth Class Day

October

- 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)
- 27 Last day to apply for December graduation
(undergraduates)
Last day to pay for diploma, cap and gown

November

- 8 Registration for Spring semester begins
- 11 Last day to drop or withdraw
- 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

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

SEPTEMBER

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NOVEMBER

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DECEMBER

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Spring Semester - 1994

January 1994

- 6 Orientation Day
- 9 Residence halls open at 1:00 p.m.
Dining halls open at 4:30 p.m.
- 10 Late Registration
- 11 Late Registration
- 12 Classes begin
Schedule revisions - late registration
- 13 Last day for schedule revisions and/or late
registration with penalty fee
- 17 Martin Luther King, Jr., birthday—no classes
- 18 Applications for May 1994 graduation begin
- 28 Twelfth Class Day

February

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

March

- 7 Last day to apply for May graduation
(graduate students)
- 11 Spring recess begins at 5:00 p.m.
Dining halls and Residence halls close at 6:00 p.m.
- 20 Residence halls open at 1:00 p.m.
Dining halls open at 4:30 p.m.
- 21 Classes resume at 7:00 a.m.
- 25 Last day to apply for May graduation
(undergraduates)
Last day to pay for diploma, cap and gown

April

- 1 Good Friday — no classes
- 11 Registration for Summer and Fall 1994 begins
Last day to drop or withdraw

May

- 3 Finals preparation day—no classes prior
to 5:00 p.m.
Finals begin, 5:00 p.m.
- 3-10 Final examinations
- 11 Dining halls close at 9:00 a.m.
Residence halls close at 10:00 a.m.
- 12 Grades for graduating students due by 8:30 a.m.
All grades due by 4:00 p.m.
- 14 Commencement
- 26 Orientation Day

JANUARY

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MARCH

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Summer Session - 1994 First Term

May

- 27 Late Registration
- 30 Residence halls open at 1:00 p.m.
Dining halls open at 4:30 p.m.
- 31 Classes begin - schedule revisions and/or late
registration with penalty fee

June

- 1 Application for August 1994 graduation begins
Last day for schedule revisions and/or late
registration with penalty fee
- 3 Fourth Class Day
- 6 Last day to apply for August graduation
(graduate students)
- 13 Last day to drop or withdraw without academic
penalty
Last day to petition for no grade
- 21-22 Orientation Days
- 28 Last day to drop or withdraw

July

- 1 Last day to apply for August graduation
(undergraduates)
Last day to pay for diploma, cap and gown
- 4 Independence Day observance — no classes
- 6 Last class day
- 7 All grades due by 4:00 p.m.

JUNE

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JULY

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Summer Session - 1994 Second Term

July

- 6 Late Registration
- 7 Classes begin - schedule revisions and/or late
registration with penalty fee
- 8 Last day for schedule revisions and/or late
registration with penalty fee
- 12 Fourth Class Day
- 12-13 Orientation Days
- 20 Last day to drop or withdraw without academic
penalty
Last day to petition for no grade
- 26-27 Orientation Days

August

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

AUGUST

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Lamar University-Beaumont students gather in the quadrangle near the sculpture of Mirabeau B. Lamar, father of Texas' public education and for whom the University is named.

General Information

Location

The central campus of Lamar University-Beaumont, a state-supported institution, is located in Beaumont, Texas, one of the world's largest petrochemical centers. Beaumont is a progressive city in the Sunbelt, offering private and public schools, churches, museums, shopping districts and a wide range of leisure-time activities to serve a city of 116,000. 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 major recreational facilities of Southeast Texas, including the Gulf of Mexico, rivers, large lakes and the Big Thicket National Preserve.

Lamar University-Beaumont is the flagship of the Lamar University System. Other campuses are located in Orange and Port Arthur, Texas.

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. Uniquely, Lamar retained much of its traditional community college mission, particularly in vocational programs, while continuing to grow with 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 Port Arthur College became Lamar University at Port Arthur. The Lamar University System, of which Lamar University-Beaumont is 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.

Since Lamar University-Beaumont first opened in 1923, it has achieved a unique position in the community of higher education with its traditional academic degree programs, including graduate and baccalaureate curricula. Degrees are offered in more than 130 fields of study.

Government

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

Mission Statement

Lamar University-Beaumont is a multipurpose university commissioned by the Texas Legislature to provide an environment for learning for the people of the state. The University is an educational, scientific, technical and cultural resource center committed to the three-fold mission of teaching, research and service. The University seeks partnerships with business, governmental, industrial and other educational organizations to more efficiently accomplish its goals.

Teaching Mission

Lamar University-Beaumont emphasizes general education, 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 the doctorate in engineering. Other doctoral level educational opportunities for the region are enhanced through cooperative arrangements between Lamar University-Beaumont and other institutions of higher education. The University's mission in graduate education is characterized by an emphasis on professional fields of study. The main thrust of the University continues in engineering, business, sciences, health sciences and education.

Dating from its origins as a junior college, the mission of Lamar University-Beaumont also still accommodates post-secondary vocational-technical education in the Lamar Institute of Technology, with particular emphasis on programs designed to meet the special needs of industrially oriented Southeast Texas.

Although basically traditional in its goals, Lamar University-Beaumont is strongly committed to the continual enhancement of the teaching/learning methodologies used in delivering its programs, and systematic assessment of new methodologies for application in other educational settings.

Research Mission

As a multipurpose university with extensive educational programs in professional fields, the University's research efforts are predominantly directed to "applied research" and deliberately concentrated in areas of unique strength.

Lamar University-Beaumont accepts as a fundamental obligation the maintenance of a faculty that is professionally creative and productive in its respective disciplines. The University encourages faculty members to assume responsibility for professional growth through research, the pursuit of professional interest and the production of creative materials.

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 continuing education programs for professional up-dating in scientific,

technical and administrative skills for practitioners; and for broad, cultural enrichment and personal growth.

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

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 130—three semester hours

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

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 1301) is a prerequisite to admission to English 131.

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.

Communication—three semester hours. Communication 131, 233, 238, 331 or 334. Consult your major department for approved courses in public speaking.

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 in the History 231-237 sequence. Three semester hours may be satisfied by an advanced standing examination.

Fine Arts—three semester hours in a visual or performing art. Art 135, Dance 132, Humanities 130, Music 130 or Theatre 131. Consult the major department for approved courses for the fine arts requirement.

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 231 and 232. 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 (MTH 1334) and three semester hours in mathematics or in Methods of Quantitative Data Analysis. Approved courses in the latter category are BAC 331, MTH 234, MTH 3370 and PSY 241.

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 131, Economics 233 (for non-Business majors or minors), Psychology 131 or Sociology 131. **Business majors must take both Economics 131 and 132 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 130 (Philosophy of Knowledge) Core requirement by having taken Philosophy 131 (Introduction to Philosophy) or its equivalent.
4. **Additional Graduation Requirements.** Please consult the 1992-94 General Catalog, p. 59, for additional degree requirements, including Health and Physical Education. Note: Transfer students may satisfy the Health 137 (Health and Wellness) graduation requirement by having taken Health 133 (Personal Health) or its equivalent.

Accreditation

Lamar is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award Associate, Bachelor's, Master's and Doctor's degrees and 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; the College of Education by the National Council for the Accreditation of Teacher Education; 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 and Student 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, Deaf Education/Habilitation, Economics, English, French, Geology, History, Mathematics, Political Science, Psychology, Sociology, Spanish, Speech, Speech Pathology/Audiology and Theatre

Bachelor of Business Administration in Accounting, Economics, Finance, General Business, Management, Marketing, Office Administration and Personnel Administration

Bachelor of General Studies in Liberal Arts and in Fine Arts

Bachelor of Fine Arts in Graphic Design, Studio Art

Bachelor of Music

Bachelor of Music (with Teacher Certification)

Bachelor of Science in Art Education, Biology, Chemistry, Communication, Criminal Justice, Dance, Deaf Education/Habilitation, Education Interdisciplinary Studies, Energy Resources Management, Environmental Science, Geology, Graphic Design, Health Education, Home Economics, Mathematics, Mathematical Sciences, Medical Technology, Music (with Teacher Certification), Nursing, Oceanographic Technology, Physical Education, Physics, Political Science, Psychology, Sociology, Speech Pathology/Audiology, Studio Art and Theatre and the following **Engineering Fields**: Chemical, Civil, Computer Science, Electrical, Industrial, Mechanical and Industrial Technology

Bachelor of Social Work

Master of Arts in English, History, Political Science and Visual Arts

Master of Business Administration (undifferentiated)

Master of Education in Elementary Education, Guidance and Counseling, School 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, Communication, Computer Science, Deaf Education/Habilitation, Environmental Engineering, Environmental Studies, Health and Physical Education, Home Economics, Mathematics, Psychology, Speech Pathology/Audiology and Theatre

Master of Public Administration

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. The Lamar University Institute of Technology was organized in 1990.

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. Both day and evening classes, with few exceptions, are taught by the regular faculty and educational facilities are the same. 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. Enrollment forms are available through the Office of Evening Services in the Wimberly Student Services Building.

ROTC

The Army Reserve Officers Training Corps (ROTC) conducts a permanent program of instruction on campus to provide eligible students an opportunity to qualify for a commission in the United States Army. Students who successfully complete the program will be commissioned as second lieutenants upon graduation. A complete listing of course descriptions and requirements can be found in the College of Arts and Sciences under the Department of Military Science. The Department of Military Science provides financial assistance through four main sources:

1. Scholarships
2. Payment of \$100 each month for each long semester of Junior and Senior year ROTC participation
3. Payment for attendance at advanced camp, between Junior and Senior year of ROTC
4. Payment for participation in the Simultaneous Membership Program (simultaneous participation as an Advanced Course ROTC Cadet and an Army Reserve or National Guard member).

Specific information concerning ROTC financial assistance may be obtained by writing Professor of Military Science, Lamar University, Box 10060, Beaumont, Texas 77710. Phone calls may be made collect to (409) 880-8560.

Services for Handicapped Students

Services for handicapped students 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. For additional information contact the Coordinator of Services for Handicapped Students, Wimberly Student Services Building, P.O. Box 10043, Lamar University Station, Beaumont, Texas 77710, telephone (409) 880-8026.

Students applying for admission and/or re-admission are informed that a special assistance program is provided to physically handicapped students by the Registrar's staff during periods of pre-registration and registration.

Prior to registration in any university program, physically handicapped students are requested to notify the Coordinator for Handicapped Services 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 physically handicapped students with information regarding the university policy for assistance and to urge handicapped 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 head 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 handicapped 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.

Bookstore

The University provides a bookstore for the convenience of faculty and students, where supplies and books, new and used, may be purchased.

Used books which are currently approved may be sold to the bookstore. Books which must be discontinued are not purchased by the Bookstore except at a wholesale price. The Bookstore reserves the right to require the seller to prove ownership of books.

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 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 Center is accredited by the National Academy of Early Childhood Programs.

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 (Computer Center)

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 Bull DPS8/49 (Dual) computer system. This system is capable of processing 1.1 million instructions per second (MIPS), has 24 megabytes (million bytes) of memory and 7.7 gigabytes (billion bytes) of disk storage. The operating system is GCOS 8 and the transaction processor is TP8. The system supports two line printers capable of printing 1200 lines of output per minute each, and three 9 track magnetic tape drives. More than 160 terminals are available for interactive computer use.

Several computers are available to support the academic computing needs. The VAX 6310 minicomputer system handles all computer applications necessary for the operation of the Mary and John Gray Library and general academic applications. This system has the capability of processing 7.0 MIPS. It has 256 megabytes of memory and 9.6 gigabytes of disk storage. The 6310 supports a TA79 tape drive and one Ethernet port. It shares a 600 line per minute printer with the MicroVAX 3300's.

Three MicroVAX 3300s are dedicated to supporting the Computer Science students and faculty in their computing applications. The 3300s are capable of processing 7.0 MIPS with VMS as its primary operating system. This system contains 60 megabytes of memory and 1.35 gigabytes of disk storage.

An IBM AS/400 minicomputer provides computing support to the students and faculty in the Institute of Technology. This system has 12 megabytes of memory and 1.8 gigabytes of disk storage. The operating system is OS/400. It supports a magnetic tape drive, a 300 line per minute printer, 25 terminals and 20 PS/2 microcomputers.

Library

The eight-story Mary and John Gray Library building dominates the campus from its central location. Built to house a million volumes, the Library now occupies seven floors with on-line public access catalog to more than 800,000 volumes. 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 multi-media programs on campus and is developing basic collections of equipment and materials for central distribution.

Montagne Center

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

Public Services and Continuing Education

Public Services and Continuing Education provide educational opportunities to students both on-campus and off-campus. Organizationally, it is composed of the Center for Adult Studies, the divisions of Industrial Fire Training, Non-Credit Programs, Occupational Health and Safety Training, Spindletop/Gladys City Boomtown and a number of special educational programs.

The Center for Adult Studies coordinates off-campus credit courses and provides point-of-entry advising for all adults who are considering returning to college or beginning college for the first time. The Center is also the advising office for the Bachelor of Applied Arts and Sciences degree program. Off-campus classes, coordinated by the Center, allow students to earn credits toward degrees at locations that are convenient and accessible to the busy adult learner. The Center also coordinates travel study programs.

The Non-Credit Programs Division serves as a link between Lamar University-Beaumont and the community to meet educational, cultural and training needs of adult students. Lamar Paralegal Studies provide professional education to students who want to earn certificates as paralegal assistants. Other non-credit courses and programs are available to help build professional skills or provide entrance to new career fields.

The Industrial Fire Training Division provides training to industrial firefighting 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 division hosts tailor-made industrial fire brigade training and leadership courses throughout the year, and an annual week-long school each May.

The Occupational Health and Safety Training Division offers state-of-the-art training programs responsive to the needs of business, industry and government agencies. This division coordinates training in the areas of hazardous materials and waste management, environmental health and safety, asbestos abatement and other health and safety areas.

Each of these divisions offers customized contract training for business and industry, along with seminar and conference organizational services.

Spindletop/Gladys City Boomtown is an outdoor museum recreation of the boomtown which sprang up following the discovery of oil at Lucas Gusher in 1901. It is maintained as an educational resource by the University.

Other programs managed by Public Services and Continuing Education include 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 sixth grade students to encourage them to complete their educations and continue to college; and youth opportunities, a state summer program for eighth and ninth grade students who are at risk of dropping out of school.

Public Services and Continuing Education administrative offices are located in the Montagne Center.

Office of Research and Sponsored Programs

The Office of Research and Sponsored Programs 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.

Public Affairs and Development

The Public Affairs Office, formerly named University Relations, was established in 1975 and includes areas of public relations, public information, development, publications, graphics, photographic services and the Library Reception Center.

The Development Office works closely with the president and Board of Regents in raising funds for many worthwhile programs for which appropriations are not received from the Legislature.

Sam Houston Regional Library and Research Center

The Sam Houston Regional Library and Research Center, a part of the Texas State Library's Local Records Division, has been affiliated with Lamar University since 1977. The Center is the Regional Historical Resource Depository for local government records, archives and other items which document the history of Southeast Texas, geographically defined as the counties of San Jacinto, Polk, Tyler, Jasper, Newton, Hardin, Chambers, Orange, Liberty and Jefferson. The Center houses maps, photographs, rare books, a large Texana Collection, more than 6,000 cubic feet of county records and more than 500 manuscript collections from the area.

Lamar University uses the Center's classrooms and resources for research and field-centered courses, graduate seminars and workshops. Other facilities located on the 114-acre site are the Price Daniel House and the 1848 Gillard-Duncan House.

Located in Liberty, the Center is open Monday through Friday, 8 a.m. to 5 p.m., Saturday, 9 a.m. to 4 p.m. and by special appointment. Telephone (409/336-8821) or write to P.O. Box 310, Liberty, TX 77575 for further information.

Spindletop/Gladys City Boomtown Outdoor Museum

The Spindletop/Gladys City Boomtown Museum, operated by Lamar University, is located at University and Cardinal Drives (Highway 69). It has artifacts and exhibits of 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 recreation 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 \$1.00 for adults, 50 cents for children age 6 to 12 and for senior citizens. Lamar students with current identification cards and children under 6 are admitted free.

Texas Energy Museum

The Spindletop collection of artifacts depicting the early days of the Texas oil industry, formerly located on the Lamar campus, is now a part of the Texas Energy Museum created by the joint efforts of Lamar University and the City of Beaumont. This museum, which also contains the energy collection formerly belonging to the Western Company of Fort Worth, is located in downtown Beaumont at Main and Forsythe Streets. There is no admission charge to the Texas Energy Museum.

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. Additional information about veterans' programs may be found in the Fees and Expenses section of this bulletin.

Alumni Association

The Lamar University Alumni Association, which includes graduates and ex-students, is active on a year-around basis. The Executive Director of the Association maintains an office in the Alumni House located on Redbird Lane.

The Gray Institute

The John Gray Institute, a privately funded, state operated, non-profit center, is dedicated to the mutual advancement of business, labor, industry and education and, thereby, to the general well-being of the economy of the Gulf Coast Crescent. The staff continuously addresses the region's challenges and opportunities while designing new programs, studies and reports focused on labor-management relations, training and productivity, and the potential for a more diverse economy in the area.

In its facilities on the south side of the Lamar University campus in Beaumont, the Institute continues to expand its activities toward improving labor-management relations and enhancing economic development.

Institute publications profile, analyze and evaluate challenges facing the area. Obtaining this information and turning it into opportunities for action will continue to be a major focus of the Institute.

In order to provide impartial information and assist positive changes, the Institute uses the following approaches:

- Assessment
- Awareness
- Forward Planning
- Implementation and Training
- Evaluation

Lamar University Institute of Technology

The Lamar University Institute of Technology, formerly the College of Technical Arts, was approved by the Coordinating Board and named by the Board of Regents in 1990. Faculty and programs include the associate and certification programs in 18 different areas. The three major areas of instruction continue to be technology programs, supervision and industrial training. Programs in applied health, office technology, restaurant and institutional food management are also be taught in the Institute.

Lamar University-Orange

Beginning in 1969, the University offered courses in Orange, Texas. With the provision of facilities by the Lamar University-Orange Capital Foundation, this program expanded to offer first and second year courses in principal fields of the University in addition to expanded vocational courses. Career-oriented courses are offered during the extended day hours. For additional information, see the Bulletin of Lamar University at Orange.

Brown Center

The Brown Center, located off Highway 90 near Orange, became a Lamar University facility in 1976. It is used as a center of cultural and educational activities for the benefit of the people of Orange County and Southeast Texas. The 87 acres of grounds comprising the Brown Center include a graceful mansion built in the Southern antebellum tradition, greenhouses, lakes and landscaped grounds.

The estate was a gift to the University from the four sons of the late Edgar W. Brown Jr., Orange industrialist and philanthropist, who served as a charter director of the Lamar University Foundation, Inc.

Lamar University-Port Arthur

Port Arthur College merged with Lamar University in August 1975, with legislative funding of instructional programs at the first and second year level. Lamar University at Port Arthur courses are offered on the same basis as courses authorized for the University in principal areas of business, liberal arts, vocational and technical arts programs. For additional information, see the Bulletin of Lamar University at Port Arthur.

Smoke-Free Workplace Policy

Lamar University-Beaumont recognizes its commitment to the emotional and physical well-being of its students, faculty and staff. There is increasing concern, interest and anxiety about the effects of secondary tobacco smoke on individuals exposed to it and the dangers associated with tobacco smoking. Lamar University-Beaumont acknowledges the seriousness of this problem and recognizes its obligation to promote public health on this campus by protecting its students, faculty and staff from hazardous conditions which are within the university's ability to regulate.

An effective and responsible approach to safeguarding public health requires that legitimate concerns about the problems and dangers associated with primary and secondary smoke neither be sensationalized nor minimized. University officials have worked closely with other interested parties to establish the following policies and procedures that inhibit the likelihood of exposure to secondary smoke in the work place or the classroom while promoting an educational environment characterized by safety, health and productivity.

The insurance premiums paid by university personnel through the Employee Benefits Plan continue to rise as a direct result of the increasing number of medical claims filed by our employees. Some of the most expensive claims are those associated with lung cancer and other pulmonary and coronary diseases, all of which are aggravated if not caused by primary and/or secondary tobacco smoke.

Lamar University has invested millions of dollars in computer and other sensitive electronic equipment which is operated in buildings and offices throughout the campus. The manufacturers of this equipment warn of the damage caused as the result of the continued exposure to tobacco smoke.

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, Student Government Association and adopted by the Board of Regents Lamar University System.

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 non-smoking 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 non-smoking facility except in designated areas." There will be no ashtrays in non-smoking areas.
4. This non-smoking 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 separate 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.

NOTE THAT ADMISSION REQUIREMENTS FOR 1993 ARE DIFFERENT FROM THOSE FOR 1992. SEE INSIDE OF FRONT COVER.

1992 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. (Non-high school graduates should see the section on Individual Approval.)

The admissions requirements into four-year Baccalaureate Programs are

I. Regular (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 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.

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

Rank in High School Class by Quarter

1st Quarter	no minimum required
2nd Quarter	no minimum required
3rd Quarter	900 SAT/21 ACT
4th Quarter	1000 SAT/24 ACT

II. Provisional Admission

- A. Students who attain a high school diploma from an accredited high school but who fail to meet the requirements for Regular Admission will be permitted to attend Lamar University-Beaumont on a Provisional Admission basis.
- B. Students admitted on a Provisional basis will be granted Regular Admission status at the end of the semester in which they complete 24 or more hours if they have earned:
 1. A 2.0 grade point average in courses taken at Lamar University-Beaumont (not including required activity courses in physical education or ROTC) AND
 2. Satisfactory grades in English 131 and Math 1302 (or a higher level math course).

C. Students who do not satisfactorily complete the terms of Provisional Admission will be denied readmission to Lamar University-Beaumont for one full year.

III. Exceptions

A. These general admission standards do not apply to students entering associate degree, vocational or technical programs. However, students will still be required to meet the internal standards within individual associate, vocational or technical programs.

B. Any applicant over 25 years of age will be granted admission with proof of high school graduation.

IV. Additional Requirements

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

1992 Admission by Individual Approval

A non-high school graduate who is at least 19 years of age, whose high school class has been graduated for at least one year, and who has completed the GED may apply for Provisional Admission as an individual approval student. Individual approval applicants must provide evidence of preparation substantially equivalent to that required of other applicants. Evidence of preparation must include proof of GED completion, and should also include SAT or ACT scores and/or transcripts of previous academic work. Applicants must demonstrate the aptitude and the seriousness of purpose necessary to successfully pursue a college course of study.

Applicants are required (1) to take the entrance examination, (2) to submit a record of the school work which was completed, and (3) to be interviewed in person. Educational records and test scores to be considered must be on file 30 days in advance of the proposed registration date. Arrangements for the interview should be made after records and scores are received by the University at least 30 days in advance of registration.

1993 ADMISSION REQUIREMENTS FOR STUDENTS ENTERING FROM HIGH SCHOOL - SEE INSIDE OF FRONT COVER

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 by writing to the testing agency. SAT inquiries should 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.

The Level I Mathematics Test of the College Entrance Examination Board must be taken by all students entering the College of Engineering. It is strongly recommended for students planning to major in any of the physical sciences. Students planning to continue a language started in high school must take the CEEB reading test in the language for placement purposes. Otherwise, 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-Beaumont to receive score reports.
3. Submit a copy of your current high school transcript to Lamar University-Beaumont.
4. Have final high school transcript sent to the Lamar University-Beaumont Admissions Office immediately after graduation. Final certification of graduation is required.

When To Apply

Application should be made well in advance of the proposed enrollment date two or three months in advance, if possible. Students planning to enter either a Summer session or the Fall semester, should apply by February 1. Applications for the Spring semester should be on file by October 1.

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.

TASP Testing Requirements

All new students (and any students who have not successfully completed a minimum of three college hours prior to Fall 1989) must complete the State-mandated Texas Academic Skills Program (TASP) test. This testing is required for all accepted students and should be completed prior to registration for classes. Registration forms for TASP testing are available at public high schools as well as in the Lamar University Assessment, Advising and Research Center.

In the event that a student is unable to complete the State TASP test prior to registration for classes, Lamar University-Beaumont requires the taking of a Pre-TASP test. In the absence of TASP scores, the Pre-TASP is mandatory for advisement purposes. Students without TASP or Pre-TASP scores will not be allowed to register for classes. The Pre-TASP scores do not relieve the student of the responsibility of taking the official state test. Students who take the Pre-TASP must register for and take the TASP during their first semester of enrollment. Information on these tests may be obtained by calling the Assessment Center at (409) 880-8444.

Change of Address or Name

Students are responsible for all communications addressed to them at the address on file in the Student Affairs Office and 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 the Dean of Student Development and 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.

Graduates of Non-Accredited High Schools

1992 applicants who have graduated from a non-accredited high school may be admitted if they (1) have graduated in the upper 2/3 of their class, (2) score 700 or above on the Scholastic Aptitude Test, and (3) have the recommended college preparation credits.

New Student Orientation and Registration

A series of new student orientation and registration programs is held during the summer months. These small group sessions are 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 is completed at this time and tuition and fees are paid. Books may be purchased or reserved. Advance reservations for the Summer orientation sessions are recommended. Details of the program including the dates, cost and reservation forms are sent to new students with admission acceptance notices. Reservations should be requested early in order to select a preferable date. Parents are invited to sessions designed especially for them. One-day orientation programs are conducted for new students at the beginning of the Fall and Spring semesters.

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.

Undeclared majors are advised in the College of Arts and Sciences advising center. Students experiencing difficulties in deciding upon a major field of study or who are uncertain about career fields should make an appointment with the staff in the Advisement Center in the Wimberly Student Services Building.

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 131, 133
Biology	Score of 3 or above	Biology 141-142
Calculus AB Test	Score of 3 or above	Mth 1341 or Mth 148
Chemistry	Score of 3 or above	Chemistry 141
Computer Science A Test	Score of 4 or 5	CS 1411
AB Test	Score of 4 or 5	CS 1411 and 1413
Economics (Micro)	Score of 3 or above	Eco 131
Economics (Macro)	Score of 3 or above	Eco 132
English	Score of 4 or 5	Eng 131-132
	Score of 3	Eng 131 (student receiving such credit must complete Eng 136)
Foreign Language	Score of 3	131
	Score of 4	131, 132
	Score of 5	131, 132, 231
Government/Compar.	Score of 3 or above	3 hours elective (non-advanced)
Government/POLS	Score of 3 or above	POLS 232
History/American	Score of 3 or above	History 231-232*
History/European	Score of 3 or above	History 131-132
Music	Score of 3 or above	MLt 121, 122
Physics B	Score of 3 or above	Physics 141-142
Physics C (Mechanics)	Score of 3 or above	Physics 247
Physics C (E & M)	Score of 3 or above	Physics 248

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

2. Achievement Tests (Optional)

Students who have outstanding high school records who participated in accelerated programs are encouraged to take the College Entrance Examination Board's Achievement Tests in the corresponding subject matter areas. Students may enter advanced courses provided test results indicate they are qualified. Minimum scores are set by the University and students who qualify are notified. Upon the completion of the advanced course with a grade of "C" or better, college credit is granted as indicated in the following table. Achievement Tests are given on all regularly scheduled test dates other than October. Application is made directly to CEEB.

Subject Matter Area	CEEB Test Required	Credit Granted
English Composition	English	Eng 131 if validated by completion of Eng 136 with a grade of "C" or better.
Foreign Lang.	Spanish French	0 to 12 semester hours depending on placement and validation.
Chemistry	Chemistry	Chem 141 if validated by completion of Chem 142 with a grade of "C" or better.
Mathematics	Level I	Up to 12 semester hours depending on placement and validation.

Physics

Physics

Physics 141 if validated by
completion of Physics 142 or
248 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.

How To Apply for Admission

The following procedure should be followed in making application for admission:

1. All credentials should be sent to the Office of Admissions, Lamar University, Box 10009, Beaumont, Texas 77710.
2. Submit application for admission on the official form with your Social Security number.
3. 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.
4. Take the prescribed entrance tests and/or have a record of test 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-Beaumont is too short for the transcript(s) to be received before registration. All credentials must be on file at Lamar-Beaumont 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-Beaumont.

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.

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 4-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 4-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 Returning From Another Institution

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 and had accumulated 25 or more grade point deficiencies must receive written clearance from the Dean of that college to be eligible for readmission.

A former student who has attended another college is 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 to the University prior to registration. 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-Beaumont 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 Adult Learner Services Hotline (409) 880-8433.

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 non-native English speakers that take into account the minimum language skills necessary for success in academic work as well as the minimum standards that a diploma from the University represents.

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

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

International Student Admission

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

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 Program

Early admission is possible at Lamar University for the academically superior student. For further information, contact the Office of Admissions, Box 10009, Beaumont, Texas 77710.

Pre-College Honors Program

The Pre-College Honors Program enables seniors-to-be to take university courses during the summer between the Junior and Senior year in high school. Provision also is made for a high school senior to take a university course during the regular school year. Credit earned is held in escrow until after graduation, but then may be applied to university degree programs. Only students of exceptionally high academic ability are selected for the program. Special counseling is provided by the University. Enrollment may be for one or both Summer Sessions.

To be considered for selection for the Beaumont Campus Program, an applicant must (1) have completed the junior year in an accredited high school; (2) have at least a "B-plus" average through the second quarter of the junior year of high school; (3) submit scores of 1000 or equivalent on the PSAT, SAT or ACT; a score of 500 or equivalent on the verbal section of the PSAT, SAT, or ACT is necessary for acceptance to the program; and (4) be recommended by the high school counselor or principal. In order to take a course in mathematics, the student must have scored at least 500 or equivalent on the PSAT, SAT, or ACT Quantitative section, and the student must have the permission of his/her high school counselor and the counselor recommends which mathematics courses will best serve the needs of that particular student. Only a limited number of applicants are taken into the program each year. Selection is made on an individual basis by the University. An eligible Senior who lacks no more than three required academic credits for graduation may enroll during the regular school year with approval of high school officials and the Lamar Director of Admissions.

Detailed information and special application and recommendation forms are available in the Admissions Office.

Lamar Early Access Program (LEAP)

In addition to the other programs described above, the Lamar Early Access Program (LEAP) is a cooperative program between Lamar and participating high schools which allows high school seniors to take university courses in their high schools taught by their high school teachers.

Students enrolled in the program may receive both high school and college credit concurrently upon satisfactory completion of the course. The courses are regular offerings of the University, taught by carefully selected high school teachers designated as adjunct instructors of Lamar University.

Lamar credits earned through LEAP are transferable to other universities throughout the state and nation. For additional information contact the Director of the Lamar Early Access Program, Box 10034, Beaumont, Texas 77710.

Information About the 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 Pre-TASP Test (PTT) prior to enrollment in the first semester of course work. Failure to comply with this requirement may result in cancellation of enrollment.

The following students are exempt from the TASP examination:

1. Any student who has earned at least three college-level credit hours prior to September, 1989; and
2. Any student who is enrolled in a certificate program which requires no more than eight semester hours of college-level courses.

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 examination for reading, writing and mathematical skills.

To assist with placement decisions only, Lamar University-Beaumont administers a "Pre-TASP Form" of the TASP examination along with other appropriate diagnostic

instruments. Students who are placed on the basis of this "Pre-TASP Form" must then take the Official TASP examination prior to the end of the semester in which they accumulate **fifteen** or more semester hours toward graduation.

Students who fail to take the "Certification Form" of the TASP during the designated semester are not permitted to re-enroll or to enroll in any other Texas public higher education institution in any courses other than non-credit or pre-collegiate courses until they have taken the "Certification Form" of the TASP examination. Pre-collegiate courses, such as remedial reading, writing and mathematics, are not counted in calculating the credit hours for meeting the testing requirements.

Based on the level of your skills, you should seek advice from the Director of the Assessment, Advising and Research Center in the Wimberly Building on the best time for you to take the TASP Test, e.g., before or after you have had an opportunity to review or obtain any necessary remediation in reading, mathematics and writing.

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 Director of the Assessment, Advising & Research Center in the Wimberly Building.



Students communicate during a break in sign language in the Red Bird Perch where fast foods are served.

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.

Applications for scholarships should be completed by February for the following year. Completed applications should be forwarded to the Student Financial Aid Office along with a copy of the student's most recent academic transcript.

How To Apply

Scholarships

Students wishing to be considered for scholarships only should request and complete the Lamar University - Beaumont Academic Scholarship Application. Academic transcripts must be submitted with the application. Applicants should arrange to have SAT or ACT test scores on file with the Lamar University - Beaumont 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.

Grants, Loans, College-Work Study

All students applying for need-based aid must complete and file the Lamar University - Beaumont Financial Aid Application and the Financial Aid Form. The Financial Aid Form (FAF) 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 post-secondary 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 record 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' 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 Financial Aid Form. 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 - Beaumont; and
- d. in the case of continuing students, meet satisfactory academic progress standards.

Satisfactory 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 (BEOG) is the foundation source for all other 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 Financial Aid Form should cause the Pell 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 Financial Aid Form may be awarded one of these grants.

Scholarships

Scholarships are funds that cover all or a portion of the student's expenses. Scholarships at Lamar University are of two types: those administered solely by the University, including the selection of recipients, and those administered by the University at the request of donors who select the recipients themselves. Students applying for scholarships administered by the University should apply to the Office of Student Financial Aid by Feb. 1. Half of the scholarship is disbursed for the Fall term and the remaining half for the Spring semester.

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, Supplemental Loans for Students (SLS), 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 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 two regular semesters following graduation. Other fees are not exempt. Before registration, valedictorians should check with the financial aid office for fee adjustments. The names of valedictorians of all Texas high schools are certified by principals to the Texas Education Agency, and the list is supplied to the University for reference.

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, 2209 Calder, Beaumont, Texas 77701 (409/835-2511).

Multiple Campus Enrollment

Students enrolling simultaneously at two or more of the Lamar University system 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 the Lamar University system 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 - Beaumont 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 10003, LUS, 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. The applicable refund will be calculated according to the University's Refund Policy as outlined in the Fees and Expenses section of this catalog. Federal regulations require that the portion of the refund returned to Title IV Programs is determined by multiplying the refund amount by the quotient of the Total Title IV aid received (excluding CWS) divided by the total amount of aid received from all sources (excluding CWS.)

In allocating the refund to specific programs, Lamar University - Beaumont 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, SLS 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.

Title IV Refund Priority

Perkins Loan
SEOG
SSIG
Pell Grant
Byrd Scholarship
Stafford Loan
SLS
PLUS

Non-Title IV Refund Priority

Installments
LU-B Short Term Loan
Emergency Tuition Loan (TPEG Loan)
Sponsored Students Source
TPEG
STS
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.

Payment of Fees

A student is not registered until all fees have been paid in full or the installment plan/down payment has been paid and the installment agreement has been signed. Payment may be made by check, Mastercard/Visa, money order or currency. Checks and money orders, not in excess of total fees, should be made payable to Lamar University. Checks and drafts deposited with Federal Reserve banks cannot be handled through regular bank collection channels if received without the magnetic ink (MICR transit number).

Installment Payment Agreement

Tuition and selected fees may be charged on an installment plan, for those students who are not on financial aid (scholarships, grants, etc.). This plan provides for payments to be made in 3 installments for courses taken during the Fall and Spring semesters.

Students are required to enter into a legally binding installment contract that obligates them to pay the full amount of the fees, regardless of whether they complete the semester. The student whose fees are to be paid in installments must sign the installment agreement. Tuition refunds for students using the installment payment plan are calculated as a percentage of the total fees assessed, not as a percentage of any partial payments.

A non-refundable service charge of \$20 is assessed for the 3 payment plan. A late fee of \$15 is assessed beginning the first day after an installment due date for each delinquent installment payment.

Students who are delinquent on installments will be prohibited from registering for class until the installment debt is paid in full. A single delinquent installment results in the entire remaining balance being immediately due and payable. Continued delinquency may result in withdrawal from the University. Also, holds are placed on academic records so that students cannot obtain transcripts until all installments are paid.

All delinquent installment accounts will be forwarded to a collection agency/Credit Bureau, which results in additional fees of approximately one-third of the unpaid balance being added. (Delinquent accounts must be paid at the collection agency; payment will not be accepted at the Lamar Cashier's Office. All costs of collecting delinquent installments are payable by the student.

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 cost of University housing, see p. 66 of this catalog.)

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

Tuition	\$360
Student Services Fee	99
General Use Fee	120
Setzer Student Center Fee	30
Student ID	5

Computer Use Fee	30
Parking Fee (if desired)	15
Books (estimated)	225

\$ 884
+ lab fees

Part-time Student (Six semester hours):

Tuition	\$144
Student Services Fee	66
General Use Fee	48
Setzer Student Center Fee	30
Student ID	5
Computer Use Fee	18
Parking Fee (if desired)	15
Books (estimated)	90

\$ 416
+ lab fees

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

*Tuition rate per semester hour for Texas residents is \$24 with a minimum of \$100. A full-time student is one who takes 12 or more semester hours of course work. Non-Texas U.S. rate for tuition is \$128 hour with no minimum.

Summaries of Fees

Following are "Summaries of Fees," to be used in determining total tuition and fee charges. Note that these do not include lab fees and it is assumed the student is enrolled only on the Beaumont campus.

Lamar University Fall 1992/Spring 1993

No. Sem. Hours	Tuition		Stu. Serv. Fee	Gen. Use Fee	Setzer Center Fee	Property Deposit	Computer Use Fee	Total	
	Texas Resident	Non-Texas Resident						Texas Resident	Non-Texas Resident
1	\$100	\$ 128	\$11	\$ 8	\$30	\$10	\$ 3	\$162	\$ 190
2	100	256	22	16	30	10	6	184	340
3	100	384	33	24	30	10	9	206	490
4	100	512	44	32	30	10	12	228	640
5	120	640	55	40	30	10	15	270	790
6	144	768	66	48	30	10	18	316	940
7	168	896	77	56	30	10	21	362	1090
8	192	1024	88	64	30	10	24	408	1240
9	216	1152	99	72	30	10	27	454	1390
10	240	1280	99	80	30	10	30	489	1529
11	264	1408	99	88	30	10	30	521	1665
12	288	1536	99	96	30	10	30	553	1801
13	312	1664	99	104	30	10	30	585	1937
14	336	1792	99	112	30	10	30	617	2073
15	360	1920	99	120	30	10	30	649	2209
16	384	2048	99	120	30	10	30	673	2337
17	408	2176	99	120	30	10	30	697	2465
18	432	2304	99	120	30	10	30	721	2593
19	456	2432	99	120	30	10	30	745	2721
20	480	2560	99	120	30	10	30	769	2849

Lamar University Summer 1993

No. Sem. Hours	Tuition		Stu. Serv. Fee	Gen. Use Fee	Setzer Center Fee	Property Deposit	Computer Use Fee	Total	
	Texas Resident	Non-Texas Resident						Texas Resident	Non-Texas Resident
1	\$50	\$ 128	\$11	\$ 8	\$30	\$10	\$ 3	\$112	\$ 190
2	50	256	22	16	30	10	6	134	340
3	72	384	33	24	30	10	9	178	490
4	96	512	44	32	30	10	12	224	640
5	120	640	55	40	30	10	15	270	790
6	144	768	66	48	30	10	18	316	940
7	168	896	77	56	30	10	21	362	1090
8	192	1024	88	64	30	10	24	408	1240
9	216	1152	99	72	30	10	27	454	1390
10	240	1280	99	80	30	10	30	489	1529

*Non-Texas Resident tuition will be revised each January for the following academic year (Sept.-Aug.).

Tuition and Fees

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.

Laboratory Fees

A laboratory fee of \$2 is charged each semester for courses with a combined lecture and laboratory credit of from one to three semester hours. The laboratory fee is \$4 per semester for courses of four or more semester hours credit.

Computer Use Fee

A computer use fee is charged in the amount of \$3 per semester credit hour with a maximum of \$30.

Applied Music Fees

Applied music course fees are calculated at \$18 per semester hour credit, i.e., lab fee for a two semester hour course is \$36, for a one semester hour course is \$18.

Late Registration Fee

A charge of \$10 is made for late registration.

Parking Fee

Charges for parking on campus are made at registration. Automobile registration fees are as follows: Fall semester, \$15; Spring semester, \$10; Summer Session I, \$6; Summer Session II, \$4. 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 \$10 property deposit. Any unused portion of the \$10 will be refunded upon written request after the student graduates or withdraws from the University.

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 Finance 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 classes which are held off campus will not be required to pay Setzer Center fees. The tuition, student service fee and general use (building) fee are required by either Board of Regents or State statute and cannot be waived.

Faculty and Staff with Activity Cards

Faculty and staff with Activity Cards will have the student service fee waived to avoid paying twice for the same service.

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 Finance Office. Refunds are calculated as a percentage of *total* fees assessed, *not* as a percentage of partial payments on installments. Refunds are generally processed at the end of the second week past the 12th class day for Fall or Spring (2 weeks after the 4th class day for summer sessions.)

Dropped Courses

Students who drop courses during the drop period will receive a refund on tuition and fees, based on the following:

Fall or Spring Semester

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

Summer Session

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

Withdrawal from the University

Any student officially withdrawing during the first part of the semester will receive a refund on tuition, Setzer Center, student service, laboratory, building and general use and private lesson fees according to the following schedule:

Fall or Spring Semester

1. Prior to the first class day, 100 percent.
2. During the first five class days, 80 percent.
3. During the second week of the semester, 70 percent.
4. During the third week of the semester, 50 percent.
5. During the fourth week of the semester, 25 percent.
6. After the fourth week of the semester, none.

Summer Session

1. Prior to the first class day, 100 percent.
2. During the first, second or third class day, 80 percent.
3. During the fourth, fifth or sixth class day, 50 percent.
4. Seventh class day and after, none.

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

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

NOTE: Students who withdraw from the University are required to surrender their Student Identification Card and their Parking Permit in order to receive the appropriate percentage refund of those fees. Also, withdrawal from the University precludes a student from receiving a refund for dropped courses.

Insufficient Funds Checks

Checks written in payment of registration fees and returned to the University due to insufficient funds will result in a \$15 check charge plus a \$10 late registration fee.

A student already enrolled in the University is automatically suspended from the University if a check is returned unpaid. The student may re-enter upon redemption of the check plus payment of the returned check fee of \$15.

Students who write insufficient funds checks will be placed on a "cash only" basis for the remainder of the academic year.

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

TASP Development Lab	\$50.00
Diploma Fee	12.00*
Bachelor's Cap and Gown (disposable)	15.50*
Master's Cap, Gown and Hood Rental.....	25.50*
Doctor's Cap, Gown and Hood Rental.....	27.50*
Returned Checks (Bookstore).....	15.00*
Transcript Fee.....	2.00
Advanced Standing Examination (per course).....	25.00
Photo Identification	5.00
Lost Photo I.D.	5.00
Swimming classes (suits and towels) Per Semester.....	15.00
Golf Fee Per Semester.....	20.00
Art classes (models and supplies) Per Semester	20.00

*Subject to Sales Tax

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, non-resident, 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

The unit of instruction for credit purposes is the course. Most courses meet three hours each week and have a credit value of three semester hours for one semester, or six hours for two semesters.

Each course has an individual alpha-numeric code (such as Eng 333). The alpha part indicates the subject area. Each number contains three or more figures. The first digit indicates the rank of the course: 1, means it is freshman level; 2, sophomore level; 3, junior level; and 4, senior level; 5 and 6, graduate level. The second figure indicates the number of semester hours credit. The third figure (or figures) indicates the order in which the course normally is taken. The letter "A" or "B" following course numbers indicates partial credit in each case; full credit for such numbered courses will be granted only when the series is complete.

Applied music courses are numbered so that the second number indicates both semester hour credit and number of private lessons each week.

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. It is expected that a listing of these courses will appear in the next catalog issued.

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 hour. For each classroom hour, two hours of study are expected. Two or more hours of laboratory work are counted as being equivalent to one classroom hour. For laboratory work which requires reports to be written outside of class, two clock hours are usually counted as one semester hour.

Twelve semester hours is the minimum full-time load (nine for graduate students) in Fall and Spring, four semester hours in Summer terms (three for graduate students).

Maximum Course Loads

The normal course load in a regular semester is 15-18 semester hours; for a six-week summer term, six-to-eight 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 regardless of the number of grade points earned the preceding semester.

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 Office of Records and Registration 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. (For information call 880-8969)

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 scheduled for that day at a time specified by the instructor if not later than the 15th day after the first day of the semester. The student should notify the instructor of each class the student had scheduled on that date that the student would be absent for a religious holy day.

"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. A form, *Notification of Planned Absence for Religious Holy Days*, may be obtained from the office of Records and Registrar, Wimberly Building, for the purpose of notification. The completed form must be delivered by the student to the instructor of each class affected by the absence. Upon review of the Notification form, instructors will sign and date the receipt of the notice, retaining a copy for the instructor and returning one copy to the student.

Instructors may refer any questions regarding the qualification of the absence to the Associate Vice President/Dean of Students. Students may be required to present to the Associate Vice President/Dean of Students 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, but must be approved by the instructor's department head.

Course Repetition

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

With approval of the student's major department head, students may repeat courses which are 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 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 Education

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 or the Pre-TASP examination must be enrolled in at least one developmental program—either a 1301 course or the 101 laboratory program.

Class attendance is extremely important, and state law dictates that a person not attending class is not in compliance with the law. Students not in compliance are subject to administrative withdrawal from the University. For detailed information about courses, laboratories, and policies, contact Faye Thames, Director of Developmental Education (409-880-8950).

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 1301 - 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 1301 - Computational Skills & Beginning Algebra

Development of basic mathematical 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: None

DMth 1302 - Intermediate Algebra

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. For those students who have no previous college credits, passing the course is dependent on passing the mathematics portion of the TASP test. This course does not satisfy the general degree requirements for mathematics.

Prerequisite: DMth 1301 or high school Algebra I.

DWrt 1301 - 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 or the Pre-TASP examination indicate minor degrees of under-preparation, Developmental Laboratory Programs are offered in each of the three TASP areas. These laboratories are non-credit 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 - 101

This program develops and maintains reading skills as required by the Texas Academic Skills Program (TASP).
Prerequisite: DRdg 1301 or a score of 200-219 on the reading portion of the TASP test or PTT and at least a 5 on the essay of the writing portion.

DMth - 101

This program develops and maintains beginning algebra skills as required by the Texas Academic Skills Program (TASP). It also serves as a prerequisite to DMth 1302.
Prerequisite: DMth 1301 or a score of 200-219 on the mathematics portion of the TASP test or PTT with + + + on the first two of the four skill areas.

DWrt - 101

This program develops and maintains writing skills as required by the Texas Academic Skills Program (TASP).
Prerequisite: DWrt 1301 or a score of 200-219 on the objective part of the writing portion of the TASP test or PTT and at least a 5 on the writing essay.

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. Those who choose active participation in the ROTC for two semesters.
3. Students who are 25 or more years of age may be exempted from this requirement at their option.
4. Veterans who have completed basic training as a part of their military service are exempt from the required courses in physical education.

Students exempted from the physical education requirement must submit elective hours approved by their major department in lieu of the requirement.

Bible Courses

A student may register for as many as three semester hours of Bible study each semester for a total of two semesters. This total may be raised to four semesters with the approval of the student's advisor if the field of study warrants such elective choice.

Engineering Cooperative Programs

A cooperative program is offered, to a limited number of qualified students, whereby the student spends alternate terms at work or 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. 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, undecided majors and students who have not passed all parts of the TASP examination must be approved by the department chair of the student's major field. All such changes are initiated by the completion of the proper form available in the department office. 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 Office of Records. 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 absences, other than approved absences, interfere seriously with the 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 may be reinstated to class upon written approval on the official form by his major department head, instructor of course and the instructor's department chair.

Withdrawals

Students wishing to withdraw during a regular semester or summer term should fill out a Withdrawal Petition in triplicate 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 Office of Records an affidavit of inability to pay, the student will be permitted to withdraw with the acknowledgement 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 department chair and the director of Library Services are presented to the Office of Records by the student.

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 the bulletin. 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" is 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 the Dean of the student's major.

Enforced Withdrawal Due to Illness

The director of the Health Center and the Associate Vice President/Dean of Students, 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 area and approval of the chair of the new department. These approvals must be in writing on the form entitled "Change of Major."

Interchange and Recognition of Credits

Credit earned in the respective units of the Lamar University System, including 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.

Simultaneous Enrollment

Students who desire to enroll simultaneously on more than one campus or more than one institution must have 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 Office of Records before registration for the course.

A student may not (1) register for, carry or complete a correspondence course during the last semester of 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 six semester hours or less short 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 Office of Records 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 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 head responsible for the course. A fee of \$25 must be paid to the Finance 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 Records Office. 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.

A copy of "Policies Concerning Academic Credit and Placement on the Basis of the CLEP Subject Examinations" may be obtained from the Office of Admissions or from the Assessment Center.

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;

Graduate: has been accepted for and is pursuing a graduate degree (see graduate studies catalogue); and

Full-Time Student: an undergraduate student taking 12 or more semester hours in fall/spring (four or more in a summer term) is classified as a full-time student. A full-time graduate student is one who takes nine or more semester hours in fall/spring (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 Course) 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 Office of Records must change the "I" grade to the grade of "F". The course must then be repeated if credit is desired.

An "I" grade also automatically becomes 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 Office of Records. A grade may not be recorded for a student not officially enrolled in a course during the semester covered. A grade may not be corrected or changed without the written authorization of the instructor giving the grade. The written instruction for a grade change should be accompanied by a statement explaining the reason for the change.

A student desiring to register for a course to receive a grade of NG must have the written approval on official form of the major department head, instructor and instructor's department head and Records Office verification. Student semester hours attempted will be reduced by 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.

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 programs and academic records, 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," "W," 0 points. The number of grade points earned in a course is obtained by multiplying the number of semester hours credit 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," "F," and "I" are assigned. Thus, for grades, "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.

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 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 personally, or will be released on the student's written authorization. College transcripts on file from other colleges will not be duplicated by Lamar's Records Office. Separate grade point averages and transcripts are maintained for Lamar Institute of Technology work.

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

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

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

Final 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 Office of Records.

Deans' List

At the end of each semester, each college dean prepares for its undergraduate college 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.

Scholastic Probation and Suspension

Students are expected to maintain a "C" or 2.0 grade point average. Grade point deficiencies result when the total grade points accumulated are less than twice the number of semester hours attempted. Students with a grade point deficiency shall be placed on scholastic probation and continued on probation as long as a deficiency exists. Students with a grade point deficiency of 25 or more grade points at the end of the fall, spring or summer semesters shall be suspended.

Academic suspension designates the loss of "good academic standing" and disruption of "satisfactory progress" toward degree completion.

Students suspended from fall, spring or summer semesters by this action may attend the summer session on probation. Students with a grade point deficiency less than 25 at the close of the summer session will automatically be reinstated and may register for the following fall semester. Students with a grade point deficiency of 25 or more at the end of the fall, spring or summer session must obtain approval for probationary re-enrollment from the dean of their respective colleges.

Students wishing to return to Lamar University after an absence and who are 25 or more grade points deficient must obtain written permission from the dean of their respective colleges prior to being accepted for re-admission for either a fall or spring semester.

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

Academic Appeals Procedures

After an enrollment lapse of seven or more years from Lamar University and after completing successfully (2.2 average) 30 semester hours of work at Lamar, a student may petition to disregard a maximum of two entire successive semesters of work taken previously at Lamar University. The petition shall be filed with the department chair and shall follow regular channels to the Executive Vice President for Academic and Student Affairs for a final decision. Endorsements and/or recommendations shall be required at each academic level. When approved by the Executive Vice President for Academic and Student Affairs, disregarded work shall not count in determining the student's grade

point average for academic progress or for graduation; however, it shall remain on the transcript with an appropriate notation, and it shall be used in determining honors.

Degree Requirements

General Education Requirements - Bachelor Degrees

1. Satisfy all admission conditions.
2. Complete the **Philosophy of Knowledge Core** (see pages 14, 15 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. Complete successfully 120 semester hours not including required two semesters of physical education and/or ROTC and Hlth 137. 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 on the junior and senior level, 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 and extension work and/or credit by examination combined may be applied to the bachelor's degree.
4. Complete successfully Health 137 and two semesters of physical activity and/or ROTC (for exceptions, see p. 52 of this catalog).
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

When another bachelor's degree is taken simultaneously, or has been taken previously at Lamar, the second bachelor's degree may be granted upon the completion of all required work for the second degree. A minimum of 30 additional hours, as specified by the department granting the second degree, must be completed at Lamar University.

Bachelor of Arts Degree

1. Meet the University's general education requirements for a bachelor's degree;
2. Complete the course numbered 232 in a foreign language;
3. Complete six semester hours of literature;
4. Complete the minor of 18 semester hours, six of which must be in advanced courses;
5. 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 Music (with Teacher Certification) Degree*

Bachelor of Science Degree*

Bachelor of Social Work Degree*

1. Meet the University's general education requirements for a Bachelor's degree.
- * 2. 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. 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;
2. Complete the biology core;
3. Furnish proof of at least 30 semester hours in an approved domestic college of dentistry or medicine;
4. Formally apply for the degree before August graduation deadline.

Associate of Applied Science Degree (A.A.S.)

1. Satisfy all admission requirements,
2. Meet the following minimum requirements:
 - a. three semester hours of business of English; or three semester hours of speech or other humanities;
 - b. three semester hours of mathematics (not to include TM 131 and Mth 1314);
 - c. three semester hours of social or behavioral sciences;
 - d. six semester hours from humanities, fine arts, communications, computer sciences, mathematics, natural sciences or behavioral/social sciences;
3. Complete an approved degree plan;
4. Have at least a 2.0 grade point average on all work submitted on the degree plan and a 2.0 on all courses in the major field submitted on the degree plan;
5. Complete 24 semester hours of major work at Lamar with 12 hours in 200-level courses;
6. No more than 15 semester hours of correspondence and/or extension credit may be applied toward the degree;
7. Make final application for graduation 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, previous 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. Submits all transcripts of college coursework from non-Lamar University-Beaumont institutions to the Records Office,
3. Achieves a grade point average of 2.0 on a 4.0 scale on all college work taken and on all college coursework in the student's major; a course is counted each time taken, whether failed or passed;

4. Completes application for graduation in the Records Office and pays necessary fees for cap, gown and diploma by the deadline listed in the current catalogue;
5. 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 for a four-year degree and 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 as well as a 3.5 on the combination of work at Lamar and all attempted work at other institutions attended. A 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. Recognition of honor graduates at the commencement exercises, however, will of necessity, be limited to those who have the qualifying grade point average at the end of the semester or term preceding graduation. Both diplomas and permanent records indicate graduation honors.

Student Affairs

The Division of Student Affairs is administered by the Associate Vice President/Dean of Students who, as the chief student affairs administrator of the University, reports to the Executive Vice President for Academic and Student Affairs. 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 Department of Student Development, the Setzer Student Center, the Special Services Program, the Health Center, Recreational Sports, Student Publications, the Assessment, Advising and Research Center and the Career Development and Placement Center.

Office of the Associate Vice President/Dean of Students

The Associate Vice President/Dean of Students 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 Wimberly Student Services Building.

Student Development

The Office of Student Development, located in the Wimberly Student Services Building, provides numerous services that are available to students when assistance is most important.

In the event of an **emergency** between the hours of 8 a.m. and 4:30 p.m., members of the office staff will attempt to locate a student on campus for the purpose of relaying a message.

Students may also request the office to notify a faculty member(s) prior to or during an *extended absence* due to personal injury, illness or hospitalization. The notification does not constitute an excused absence from class(es); however, it does advise the faculty member(s) as to the reason for the absence and of the anticipated date of return to class.

The Dean of Student Development, the Director of Student Development Programs/Orientation and the Director of Leadership Lamar Institute are available in this office for assistance and advisement of individuals or student groups. The primary roles and responsibilities of the professional staff are to provide leadership and interpersonal skill-development training and to plan and coordinate the new student orientation programs. Information about the Leadership Lamar Institute and the orientation program is available upon request.

Assessment, Advising and Research Center

A full range of counseling, advising and testing services are provided in the Center, located in the Wimberly Student Services Building. 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, personal and crisis intervention 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 community resources and services is made. There is no charge to students for counseling sessions. Counseling contacts are maintained as confidential, and no entries are made in the educational records of the student.

The Center coordinates testing required by the University; provides individual interest, aptitude, and personality assessment; and, as a National Test Center, administers the following: Graduate Record Examination (GRE), Law School Admissions Test (LSAT), Graduate Management Admission Test (GMAT), Scholastic Aptitude Test (SAT), American College Testing Program (ACT), College Level Examination Program (CLEP), Miller Analogies Test and the Texas Academic Skills Program (TASP). The majority of these tests are administered on scheduled testing dates and require application and fee payment in advance of the testing day. Information and application forms may be obtained from the Center.

Learning Skills Program

The Learning Skills Program is designed to aid students in the development of skills necessary for successful performance in their academic course work and completion of their degree or certificate program. The program office is in Wimberly Student Services Building.

Carefully selected and trained student counselors conduct a systematic instructional program under the direct supervision of the Director of Learning Skills. Individual computer-assisted instruction is also available. The program is designed to serve all students, both the very capable learner and the student with potential academic problems. More information is available upon request.

Career Development and Placement Center

Career information and exploration activities offered by the Center are excellent, and the facilities are comfortably designed for student use of the up-to-date career library and computer resources. The computer-assisted career information systems, SIGI and DISCOVER, are popular with students who are deciding on an academic major or career as well as with those who are seeking reinforcement of choices they have made. After brief instruction, the student may use the computers for individual, self-paced exploration.

Placement is a centralized operation responsible for placement activity for all colleges of the university. The placement service is available to students, faculty, staff and former students. The center keeps updated information on career fields and job areas, employers and the kind of employees being sought. Interviews are scheduled regularly with companies, government agencies, schools and other employers. The center also offers student seminars pertaining to job search techniques, interviews, resume writing and job availability. The Career Development and Placement Center is located in 102 Galloway Building.

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, Assistant Director for Operations, Assistant Director for Student Organizations and the Assistant Director for Center Services.

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, a check cashing and ticket sales

outlet, locker rentals, a music listening room, the reservations office, a ballroom, a reading room, various meeting rooms and lounges, the Redbird Perch, a pizza parlor and delicatessen operation and the Cardinal Nest, a fast food operation. Commercial businesses housed in the Center include the Lamar University Bookstore, the Roost Ice Cream Shop, hair salon, boutique and a copying service.

Housed in the Center are the offices of the Setzer Student Center Council, Student Government Association, Student Organizations, Student Publications and the professional staff members who serve as advisors to these organizations and to many others. The office of the director serves as the advising and coordinating center for sororities and fraternities.

Student Organizations

More than 175 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.

Setzer Student Center Council

The Setzer Student Center Council (SSCC) 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.

The Council is composed of 7 committees: concert, performing arts, forum, special events, daytimers, film/video and travel. Membership on the committees 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 members of 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 is the umbrella organization for individual residence hall councils and provides a voice for campus residents. The 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 an automatic member of the RHA and is encouraged to participate in its programs and activities.

Student Support Services

The Student Support Services Program, located in the Education Building, is designed to provide support services for students who need academic counseling or other assistance to successfully complete their college education. The goal of the program is to increase the retention and graduation rate of students who, by traditional academic measures, would have difficulty succeeding in college. The program is administered by the Director of Student Support Services who is assisted by an Academic Counselor and a Writing Specialist.

Students enrolled at Lamar University who are recognized as first generation college students, economically disadvantaged, veterans or physically handicapped are eligible to receive tutoring and to participate in the activities of the program. The program operates in close cooperation with the Assessment Center.

Health Center

The University maintains a Health Center for use by Lamar students. Outpatient service is available for illness or injury that does not require constant supervision.

While it is not possible for the University to provide unlimited medical service, some routine laboratory tests are available at the clinic at a reasonable cost. More extensive laboratory tests and X-rays are available from private physicians if requested by the Health Center Director.

All drugs, splints and special bandages, as well as serums, vaccines and gamma globulin, which may be prescribed by the Health Center, are dispensed at reasonable costs. Pre-admission vaccinations are not given. Emergency Room or other outside medical care is not the responsibility of the University and is not offered by the Health Center. Any student who has a chronic illness or disability requiring continuing medical attention should make arrangements with a local private physician.

Student Health Center services are available during regular hours when the University is in session.

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 three 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.

Pulse, a literary magazine, showcases student prose, poetry and art.

Student Life

Religious Centers

Several denominations provide full-time ministries to the campus and have established student centers adjacent to the campus.

In addition to credit Bible courses, the centers offer opportunities for worship, non-credit study and counseling to aid in developing a meaningful context for the student's university years.

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.

Conduct and Discipline

Student Conduct

In order to meet its educational objectives, an institution of higher learning must expect rational, mature behavior from its constituency. To accept anything less is to invite the destruction of not only academic freedom but the system of higher education itself.

Student discipline at Lamar is based on an educational philosophy of helping students grow and mature into responsible citizens. When a student behaves in a manner which might require disciplinary action, a careful investigation of all facts is made and the student afforded every opportunity to assist in arriving at just and equitable decisions. Counseling, conferences with parents and/or instructors, conferences with peer groups and other techniques as may seem appropriate, may be employed in making discipline an educational experience.

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 University Discipline Committee. This appeal is made through the Associate Vice President/Dean of Students.

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.

Auxiliary Services

Intercollegiate Athletics

Lamar University became a member of the Sunbelt Athletic Conference in 1991 after 23 years of affiliation with the Southland Conference, which Lamar helped establish. Lamar fields National Collegiate Athletic Association Division 1-A teams for conference competition in 11 sports. The University sponsors two sports on an independent level.

Programs and policies for intercollegiate athletics are administered under the advice of the University Athletic Committee and the Athletic Director.

Lamar has a heritage of excellence in a well-balanced program of athletics for both men and women. It is a campus tradition that athletic achievement, the spirit of good sportsmanship and trained discipline contribute to the educational environment of campus life.

Eligibility

A high school graduate entering directly from high school who meets the eligibility requirements of the Sunbelt Athletic Conference and the National Collegiate Athletic Association Division I who is registered for a minimum of 12 semester hours is immediately eligible for intercollegiate athletics at Lamar.

Regulations for the Sunbelt Athletic Conference and the National Collegiate Athletic Association, each of which Lamar University is a member, require the following for eligibility in years subsequent to the first academic year in residence: (1) satisfactory completion of a minimum 24 semester hours of the academic credit required for a baccalaureate degree in a designed program of studies since the beginning of the student athlete's last season of completion (hours earned in summer school may be used to satisfy).

Housing

The student housing program is designed to supplement the academic program by providing opportunities for social and intellectual development and recreation in an educational environment. A variety of living styles include semiprivate rooms, modern furniture, carpet, central heating and air conditioning. Residence hall staff assist with programs and serve as advisors and counselors to the residents.

Lamar's parietal rule requires that full-time freshmen students who do not live with parents or other relatives reside on the campus since the adjustment to college frequently is difficult for the first-year student. In a residence hall, students have easy access to the library, to contacts with upperclassmen in their major fields and to professional counseling. Consult the housing office or admissions office for further information.

Applications

To apply for a room in a University residence hall, contact the Housing Office. A check or money order of \$100.00 must accompany the application. Contracts will be sent to applicants as rooms become available. The contract must be signed and returned.

Termination of Contract

Subject to the conditions set out below, the student may terminate this contract if written notice is timely received by the Housing Office.

A. Contract Termination Prior to Occupancy

Refund (Fall-Spring Semester) if written notice of termination is received:

		Refund
(Fall)	Prior to July 31	100% \$100.00
	After July 31 but prior to August 15	75% \$ 75.00
	After August 15 but prior to halls opening.....	50% \$ 50.00
	After halls open	No refund
(Spring)	Prior to December 15	100% \$100.00
	After December 15 but prior to December 31	75% \$ 75.00
	After December 31 but prior to halls opening.....	50% \$ 50.00
	After halls open	No refund

B. Other Reasons Your Deposit Will Be Forfeited:

- (1) Failure to claim room by 6:00 p.m. on the first day of registration, (Late arrivals, notify Housing Office);
- (2) Moving out during the contractual period of one academic semester;
- (3) Failure to complete the proper withdrawal forms at the end of each semester;
- (4) Damages.

Assignments

Room assignments cannot be made until the student reports for check-in. The University reserves the right to assign students to specific residence halls and rooms. The University also reserves the right to consolidate residents in order to achieve maximum use of facilities. Students may request certain residence halls and rooms, and consideration will be given each request. However, all assignments are made based on the date of deposit.

Dining Hall

The dining hall is located on Redbird Lane. Snack bars, located in the Setzer Student Center and Beeson Building, provide sandwiches, soft drinks and light lunches. Commuter students may also use the dining halls. A schedule of serving hours may be obtained from the Housing Office.

All resident students are required to be on a University Board Plan.

Fees

The cost of University housing varies, depending upon the meal plan chosen and the type of housing selected. In the 1992-94 academic years this ranges from \$1,280 to \$1,514 per long semester. The University reserves the right to change fees as approved by the Board of Regents.

Room and board fees may be paid in one, two or three installments as outlined on the schedule furnished by the Housing Office. Statements will not be mailed to students or parents and a \$10 late fine plus \$1 per day will be charged for failure to comply with the established schedule. 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.

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



Dr. Tom Sullivan, parasitologist, and associate professor in the Department of Biology, examines histological slides of xenografts from schistosome-transmitting snails.

College of Arts and Sciences

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

Kendall Blanchard, Dean

**100 Health Sciences Building
Phone 880-8508**

Elena Norris, Director Advising Center

**218 Health Sciences Building
Phone 880-8853**

Jeanne Beard, Adjunct Advisor, Advising Center

257 Health Sciences Building

Dickie Calame, Adjunct Advisor, Advising Center

Phone 880-8868

Frances Miers, Adjunct Advisor, Advising Center

John W. Storey, Director University Honors Program

**93 Maes Building,
Phone 880-8511/8514**

**Boyd L. Lanier, Director, Bachelor Applied Arts
and Sciences Program**

**77 Maes Building
Phone 880-8534**

Organization and Function

The College of Arts and Sciences is the largest academic unit in the University. The liberal arts and the sciences are the essential heart and soul of an academic institution. In keeping with that tradition, the College of Arts and Sciences serves a vital leadership role in the University.

The College offers strong academic degree programs in each of its ten departments. It is responsible for providing most of the general education foundation courses. It is also responsible for the organization and supervision of the University's Honors Program.

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 Coastal and Marine Studies, 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	History
Criminal Justice	Political Science
English	Psychology
French	Sociology
	Spanish

Bachelor of General Studies—Liberal Arts

Bachelor of Science with majors in the following fields:

Biology	Medical Technology
Chemistry	Nursing
Criminal Justice	Oceanographic Technology
Earth Science	Physics
Energy Resources Management	Political Science
Environmental Science	Psychology
Geology	Sociology

Bachelor of Social Work

Graduate programs are offered in biology, chemistry, English, history, political science, psychology and public administration. The Department of Geology, the Department of Physics 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 (including undecided majors) 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 who initially enter the College as an undecided major will generally be required to select a major before the beginning of their third semester in the College.

Students majoring in one of the programs in the College of Arts and Sciences (including undecided majors) who accumulate a grade point deficiency of 25 or more grade points by the beginning of a Fall or Spring semester will 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 will result in a second suspension of two long semesters. A third suspension will 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 will 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: John W. Storey

93 Maes Building, Phone 880-8511/8514

The Lamar University Honors Program is an enriched program offering a variety of courses designed specifically for qualified and highly motivated students. Honors courses are more challenging and creative than regular courses. The classes are always small, and the instructor has ample opportunity to present course material to a select group of good students in a very interpretive and analytical fashion. Honors courses make learning a genuine pleasure. Although the program is administered through the Dean's office of the College of Arts and Sciences, qualified students working toward an approved baccalaureate degree in any of the colleges may participate. Normally, some scholarships are available to qualified students who enroll in the program. In order to be admitted to the Honors Program, entering Freshmen must have a score of at least 1000 on the SAT. College students participating in the program must maintain a 3.1 overall grade point average. The benefits of participating in the Honors Program are several: the prestige of having been selected for an accelerated academic program; the possibility of winning a commencement award given to the graduating senior with the highest grade point average who participated in the Honors Program; and, most importantly, the additional learning opportunities afforded those enrolled in Honors courses.

Students interested in University Honors should contact the director of the program for more details.

Honors Courses (Hon)

- | | | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 331 | Honors Seminar I
An interdisciplinary course designed for Honors Program. The content depends upon the combination of disciplines involved.
<i>May be repeated for credit when topic varies.</i> | 3:3:0 |
| 431 | Honors Seminar
An interdisciplinary course designed for the Honors Program. The content depends upon the combination of disciplines involved.
<i>May be repeated for credit when topic varies.</i> | 3:3:0 |

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 and engineering in preparing the student for a career in either industry or government. This degree program combines fundamental training in the basic sciences as well as a broad training across several of the traditional disciplines to prepare a student

to be able to both monitor and protect water and air quality, as well as other aspects of the environment.

Program Director: Shyam S. Shukla

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. 14.
- B. Biology:
Bio 141, 142, 245, 348, 443, 446
- C. Chemistry:
Chm 141, 142, 241, 341, 342, 448
- D. Science and Mathematics:
Phy 141, 142
Phy 133
Mth 236, 237
Geo 141, 339, 4370
CE 433
9-12 hrs. approved electives
- E. Pols 439
- F. Participate in summer intern program

First Year	
Bio 141, 142 General	8
Chm 141, 142 General	8
Eng Comp	6
Mth 236, 237 Calculus	6
Hlth 137	3
Phil 130	3
	<hr/>
	34

Third Year	
Bio 348	4
Chm 448	4
Chm 241	4
CE 433	3
Am His 231, 232	6
Phy 133	3
Geo 141	4
Pols 439	3
	<hr/>
	31

Second Year	
Bio 245 Microbiology	4
Bio 446	4
Chm 341, 342 Organic	8
Eng Lit	3
Phy 141, 142	8
Eng 331	3
PE	4
	<hr/>
	34

Fourth Year	
Bio 443 Limnology	4
Geo 339	3
Geo 4370	3
Pols 231, 232	6
Electives, approved*	9-12
Summer internship	3
	<hr/>
	28-31

*Recommend electives Bio 4401, 349, 4404, 445, Chm 4301; Geo 445, 4301; CE 331.

**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. As 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 - Liberal Arts

Advisor: Boyd L. Lanier

106 Montagne Center, Phone 880-8534

The Bachelor of General Studies-Liberal Arts 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-Liberal Arts will be granted upon the completion of the General Degree Requirements of the University plus a major in liberal arts of 36 semester hours, including 18 advanced, over and above the liberal arts courses specified in the General Degree Requirements. For purposes of establishing what courses may be applied toward the Liberal Arts major, Liberal Arts courses shall be defined as those offered by the programs in anthropology, economics, English, history, modern languages, philosophy, political science, psychology and sociology. Course selection is subject to the approval of the program advisor, with at least two of the above disciplines being represented in upper-level Liberal Arts courses. Normally at least nine hours of these upper-level courses will be 400 level.

At least 30 semester hours of the work applied toward this degree must be completed after June 1, 1976.

Undecided Majors Program

Advisor: Elena Norris

218 Health Sciences Building, Phone 880-8907

The Undecided Majors Program assists students who have not yet focused on a college major and who seek counseling in course selection for completion of general degree requirements as they choose a specific field of study. Undecided majors are restricted to 100- and 200-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. Undecided majors must abide by the College's probation and suspension policy.

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

Advisor: Boyd L. Lanier

56 Maes Building, Phone 880-8526

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 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 and veterinary medicine. The services provided include basic advising and counseling in preprofessional 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" studies 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 as a major; 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 preprofessional courses.

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). 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

Recommended Program of Study

First Year	Second Year
Eng comp.....6	Bio.....8**
Bio 141, 142 General.....8	Chm 341-342 Organic.....8
Chm 141, 142 General.....8	Phy 141, 142 General.....8
*Mth 1335 Precalculus.....3	His 231, 232 American.....6
*Mth 148 or 236 Calculus I.....3-4	PE.....2-4
PE.....2-4	
30-33	32-34

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).

Pre-Dental students should begin the application procedure at the end of the second year. (See pre-dental advisor).

**Dental schools have no mathematic requirements.*

***Advanced Biology, suggested courses: Bio 245, 246, 342, 344, 347, and/or 441.*

Pre-Optometry

Recommended Program of Study

First Year	Second Year
Eng Comp.....6	Bio 245 Microbiology.....4
Bio 141, 142.....8	Bio 344 Adv. Physiol.....4
Chm 141, 142.....8	Chm 341, 342 Organic.....8
Mth 1335 Precalculus.....3	Phy 141, 142 General.....8
Mth 236 or 148.....3-4	Eng Lit.....6
PE.....2-4	
30-33	30

Third and Fourth Years

Chm 441 Biochem.....4
Psy 131 Introduction.....3
Psy 241 Statistics.....4
Bio 240 (or 143 + 144) anatomy.....4-8
remaining courses required for any BS degree

Pre-Veterinary Medicine

Recommended Program of Study

First Year	Second Year
Eng Comp.....6	Bio 243 Microbiology.....4
Bio 141, 142 General.....8	Bio 347 Genetics.....4
Chm 141, 142 General.....8	Chm 341, 342 Organic.....8
Mth 1335 Precalculus.....3	Phy 141, 142 General.....8
Mth 236 Calculus I.....3	His 231, 232.....6
CS 131.....3	PE.....2-4
PE.....2-4	
33-35	32-34

Third Year

Bio 442 Entomology	4
Chm 441, 442 Biochemistry	8
POLS 231, 232	6
Eng 4335, Tech. Report Writing	3
or Spc 131 Public Speaking	9
*Animal Science	9
	31

*Not offered at Lamar. See the Pre-veterinary advisor.

Pre-Pharmacy

Advisor: Anne Harmon

217 Chemistry Building, Phone 880-8267

Professional training in pharmacy is offered at three institutions in Texas—Texas Southern University, University of Houston, and University of Texas. General requirements for admission to the professional schools are listed below. Following that are modifications for individual programs. **The professional schools may make changes in these requirements. For latest information, students should work closely with the Pre-pharmacy advisor.**

General Requirements:

Bio 141-142	Eng 131-132
Bio 245	Eng 2311, or 2312, or 2313
Chm 141-142	Pols 231-232
Chm 341-342	His 231-232
Mth	PEGA
	Electives

Modifications:**Texas Southern University**

Eng: Three hours of literature
 Bio: Bio 245 IS NOT required
 Bio 240 IS required
 PEGA: Two hours
 Mth: 1334 and 1337
 Psy: Three hours
 Spc 131
 Phy 141-142
 Eco 233
 Pharmacy College Admissions Test is required.
 Fall admission only

University of Houston

Eng: Six hours of literature
 Mth: Six hours including 1341 or 234, 236
 PEGA: Two hours
 Spc 131
 Electives: Social and Behavioral Sciences, six hours (Eco 233 may be used as three hours)
 Cultural Heritage, six hours
 Pharmacy College Admissions test required
 Physics, not required
 Fall admission only

University of Texas

Phy: Phy 141

Bio: 347 required

Mth 236 and 234

Foreign language is required

Electives: Fine Arts and Humanities, three hours

Social and Behavioral Sciences, three hours

Professional Programs

The Arts and Science 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 certificate secondary with teaching field in that Arts and Sciences discipline.

An Army officer commission is available through the Reserve Officers' Training Corps (ROTC) program. A complete description of the program may be found under the Department of Military Science.

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 in Social Studies

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.

Teacher Certification in Psychology

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.

Courses in Bible and Religious Education

Instructors: Fleming, Mouser, Whited

These courses are provided by church related sources. If credit is desired, the fees are payable to the University. A maximum of 12 semester hours is allowed with the approval of the student's academic dean.

Bible Courses (Bib)

131	Survey of the Old Testament	3:3:0
	Each book's major themes and cultural background.	
132	Survey of the New Testament	3:3:0
	Historical context and the beginnings of the Christian Church.	
133	New Testament: Gospels	3:3:0
	Verse by verse study of the Gospels, the person and work of Jesus of Nazareth.	
134	New Testament: Paul	3:3:0
	The life and ministry of St. Paul and the Pauline letters.	
135	Introduction to Christian Thought	3:3:0
	The major concepts of the Christian faith and their relevance for the present day.	
212	Current Issues in Religion	1:1:0
	An interpretation of religious events through the reading of current religious and secular periodicals.	
231	Church History	3:3:0
	The history of the Christian Church.	
232	Christian Ethics	3:3:0
	The relation of the Christian Faith to daily living, with particular emphasis on vocation, courtship and marriage, the person and society.	
233	Old Testament: Prophets	3:3:0
	Major and minor prophets and the role they played in the development of the religion of Israel.	
314	Thematic Approach to Religion	1:1:0
	Significant ideas or writings in religion.	
324	Thematic Approach to Religion	2:2:0
	A critical study of significant ideas or writings in religion.	
331	Philosophy of Religion	3:3:0
	The points of view in religious philosophy.	
332	Major Themes of the Bible	3:3:0
	Biblical concepts of God, man, history, covenant, prophecy, vocation and related ideas.	
333	Comparative Religion	3:3:0
	The world's major religions, e.g. Judaism, Christianity, Islam, Hinduism, Buddhism.	
334	Thematic Approach to Religion	3:3:0
	Significant ideas or writings in religion.	

Department of Biology

Department Chair: Michael E. Warren

101 Hayes Building, Phone 880-8262

Professors: Harrel, Turco, Warren

Associate Professors: Bechler, Carley, Haiduk, Hunt, Malnassy, Runnels, Sullivan

Assistant Professors: Bianchi, Bryan, Roller

A student majoring in one of the three Baccalaureate degrees offered by the department of Biology (Biology, Medical Technology, Oceanographic Technology) 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, Plant and General Physiology, Developmental Biology, Ecology, Limnology, Cytogenetics, Microbiology, Epidemiology, Ornithology, Oceanography, Parasitology, Entomology, Epidemiology, Invertebrate Biology and Fish, Reptiles and Mammals.

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. 14.
- B. Major:
Core courses, see list below – 20 semester hours
Biology electives – 12 semester hours
Biology 416, 417 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.

Recommended Program of Study

First Year	
Eng 131.....	3
Eng Comp.....	3
Bio 141, 142 General.....	8
Chm 141, 142 General.....	8
Mth 1335 Precalculus or 236.....	3
Mth 236 Calculus or 237.....	3
Phil 130.....	3
PE/ROTC 2 sem.....	2

Second Year	
Eng Lit.....	6
Chm 341, 342 Organic.....	8
Phy 141, 142 General.....	8
**Bio selected from core.....	12
Health & Wellness.....	3

Third Year	
Pols 231, 232	6
Electives.....	4
Psy 241 Statistics	4
**Bio selected from core.....	8
Bio Elective.....	8
Chm 441 or Bio 4302.....	3-4
Spc 131.....	3
	<hr/> 36-37

Fourth Year	
Bio 416, 417 Bio Lit.....	2
Bio Electives	4
Electives.....	16
Am His.....	6
Fine Arts.....	3
Social Science	3
	<hr/> 34

***The following courses must be included in the Biology Core: Bio 245, Microbiology; Bio 346, Invertebrate Zoology; Bio 345, Botany; Bio 240 or 444, Comparative Anatomy or Vertebrate Natural History; Bio 347, 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	
Bio 141, 142 General	8
Chm 141, 142 General	8
Eng Comp	6
Mth 1335 Precalculus.....	3
Psy 131 Intro to Psy.....	3
Psy 241 Intro to Stat.....	4
PE Activity.....	2
Phil 130	3
	<hr/> 37

Second Year	
Chm 341, 342 Organic.....	8
Bio 240 Comparative Anatomy or 444 Vert Natural Hist.....	4
Bio 245 Microbiology.....	4
Psy 342 Methods.....	4
Eng Lit	6
Mth 236 Calculus I.....	3
Comp Sci	3
***Psy Advanced.....	3
	<hr/> 35

Summer	
Pols 231, 232	6
Fine Arts.....	3
Health & Wellness.....	3
	<hr/> 12

Third Year	
Am His.....	6
Phy 141, 142 General.....	8
Bio 347 Genetics	4
Bio 345 Botany.....	4
Psy 443 Experimental Psy	4
***Psy Advanced.....	9
	<hr/> 35

Fourth Year	
Bio 346 Invert Zool	4
Bio 416-417 Bio Lit.....	2
**Bio Electives	12
***Psy Advanced.....	6
Electives.....	13
	<hr/> 37

**Both degrees must be awarded simultaneously.*
***Biology Electives chosen from Bio 342, 344, 446, 447.*
****Advanced Psychology Electives: Group I (Choose any three): Psy 331, 332, 333, 334, 432; Group II (choose any three): Psy 336, 431, 436, 438.*

†Bachelor of Science in Biology

†Bachelor of Science in Chemistry

First Year	
Bio 141-142 General	8
Chm 141-142 General	8
Eng Comp	6
Mth 1335 Precalculus	3
Mth 236 Calculus	3
PE/ROTC	2
Electives	6
Phil 130	3
	<hr/> 39

Summer	
Phy 335 Modern	3
***Bio Elective from Core	4
Chm 241 Quantitative	4
Social Science	3
	<hr/> 14

Third Year	
Bio selected from core***	16
Soph Am His	6
Chm 413, 414 Physical Lab	2
Chm 333 Inorganic	3
Chm 431, 432 Physical	6
Fine Arts	3
	<hr/> 36

Second Year	
Chm 341-342 Organic	8
Mth 237 Calculus	3
Eng Lit	6
Phy 141-142 General	8
Bio Elective	4
Pols 231, 232	6
Health & Wellness	3
	<hr/> 38

Fourth Year	
Bio 416 and 417 Bio Lit	2
Bio Electives	8
Chm 441 Biochem	4
Chm Electives* min	8
Electives	4
Social Science	3
	<hr/> 29

†Both degrees must be awarded simultaneously.

Biology electives to be chosen from Bio 244, 341, 342, 344, 447.

*Chemistry electives to be selected from Chm 430, 436, 442, 444, 446.

***The following courses must be included in the Biology Core: Bio 245, Microbiology; Bio 346, Invertebrate Zoology; Bio 345; Botany; Bio 240 or 444, Comparative Anatomy or Vertebrate Natural History; Bio 347, Genetics.

Bachelor of Science - Medical Technology

Major Advisors: M.D. Hunt
J.T. Sullivan

205-12 Hayes Building, Phone 880-8254
205-5 Hayes Building, Phone 880-8257

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. 14.
- B. Multidisciplinary Major:
Biology: 141-142 General, 245 Microbiology, 246 Medical Microbiology, 344 Advanced Physiology, 441 Parasitology, 4405 Immunology
Chemistry: 141-142 General, 341-342 Organic Chm, 441 Biochemistry or Bio 4302 Cell Physiology
Physics: 141-142 General
- C. Electives:
8 semester hours to total 109 semester hours (Psy 334 recommended), plus one year internship. See below:

Recommended Program of Study

First Year	Second Year
Eng 131.....3	Eng 331 Sci Report Writing.....3
Eng Comp.....3	Eng Lit.....3
Bio 141, 142 General.....8	Bio 245-246 Microbiology; Med Microbiology.....8
Chm 141, 142 General.....8	Chm 341-342 Organic.....8
CS 1311.....3	Phy 141-142 General.....8
Mth 1335 Precalculus.....3	Health & Wellness.....3
HS 121.....2	Social Science.....3
PE/ROTC 2 sem.....2	
Phil 130.....3	
	36
35	
Third Year	
Bio 344 Adv Physiology.....4	
Bio 4405 Immunology.....4	
Chm 441 or BIO 4302.....3-4	
Soph Am His.....6	
Bio 441 Parasitology.....4	
Psy 241 Statistics.....4	
Pols 231, 232.....6	
Spc 131.....3	
Fine Arts.....3	
	36
	37-38

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.

Directors of Medical Technology Programs:

*Denotes Formal Affiliation

Program Director:

Sharon Martin, MEd. MT

Medical Director:

Abdus Saleem, M.D.

Methodist Hospital*

Fannin-Mail Station 205

Houston, TX 77030

(713) 790-6353

Medical Director:

Jochewed Werch, M.D.

Ben Taub Hospital/Harris County

Hosp. District*

1502 Taub Loop

Houston, TX 77030

(713) 793-3200

Program Director:

Kathleen Becan-McBride, Ed.D., MT

(Ext. 3124)

Assistant Program Director:

Dr. Duane Peavy (Ext. 3123)

University of Texas Health

Sciences Center

P.O. Box 20708

Houston, TX 77225

(713) 792-4466

Program Director:

Deborah Zink, M.B.A., MT

Medical Director:

John Bishop, M.D.

St. Elizabeth Hospital*

P.O. Box 5405

Beaumont, TX 77706

(409) 899-7150

Program Director:

Becky Simon, MT (ext. 6048)

Medical Director:

Lehrue Stevens, M.D.

St. Patrick Hospital*

524 S. Ryan St.

Lake Charles, LA 70601

(318) 491-7708

Program Director:

Shirley Richmond, Ed.S. MT

Medical Director:

Harold Dunsford, M.D.

School of Allied Health Sciences

University of Texas Medical Branch

Galveston, TX 77550

(409) 772-3055

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	
Eng 131.....	3
Eng Comp.....	3
Bio 141-142 General.....	8
Chm 141-142 General.....	8
Mth 1335 Precalc (or Mth 1337-Trig).....	3
Psy 131 Intro.....	3
Management.....	3
Psy 234 Child.....	3
	34

Second Year	
Physics 141-142.....	8
Soc 131.....	3
Speech.....	3
Bio 344 Adv Physiology.....	4
Psy 241 Statistics.....	4
His 231-232.....	6
Pols 231, 232.....	6
	34

Third Year	
Bio 240 Comp Anatomy.....	4
Eng Lit.....	3
Psy Elective.....	3
Psy 432 Abnormal.....	3
Electives minimum*.....	10
Comp Sci 1311.....	3
	26

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

At the time this catalog was being prepared, several Texas physical therapy schools were in a state of transition from the traditional four year B.S. programs to two or three year M.S. programs. 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.

Physical therapy schools in Texas:

- University of Texas: Galveston (M.S.), Dallas (B.S.), San Antonio (B.S.), Health Science Center at San Antonio (B.S.)
- Texas Woman's University: Denton, Dallas, Houston (M.S.)
- Baylor: U.S. Army San Antonio (M.S.)
- Southwest Texas State Univ. San Marcos (B.S.)
- Texas Tech. Univ. Lubbock (B.S.)

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	
Eng 131.....	3
Eng Comp.....	3
Bio 141-142 General	8
Chm 141 General	4
Psy 131.....	3
Psy 241 Statistics.....	4
Psy 234 Child.....	3
Psy 236 Adult Dev. & Aging.....	3

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Second Year	
Eng Lit	3
Speech	3
His 231-232	6
Pols 231, 232	6
Soc 131.....	3
Sociology or Psychology	3
Bio 143 and 144 Anatomy & Physiology.....	8

32

Plus two years clinical affiliation

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

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	
Eng Comp.....	6
Mth 1334 Algebra	3
Bio 141-142 General	8
Psy 131 Introduction	3
Psy 234 Child.....	3
His 231-232	6
Electives (minimum)	3

32

Second Year	
Chemistry (with laboratory).....	3
Bio 143 Anat & Physiol.....	4
Eng Lit	3
Pols 231, 232	6
Spc 131.....	3
Soc 131	3
Psy 432 Abnormal.....	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.

Bachelor of Science - Oceanographic Technology

Major Advisor: W.C. Runnels

205-8 Hayes Building, Phone 880-8256

The Ocean Sciences hold great promise for the future. The oceans are highly complex systems; their study requires a multidisciplinary approach to fully explore and utilize the ocean's untapped potential. This will be necessary in the decades ahead; to fail in this area will affect our security, economy and limit our ever increasing demand for food and raw materials. Students interested in this field may declare an area of special interest by choosing one of the options listed below.

A. General Requirements:

See core curriculum, p. 14.

B. Multidisciplinary Sciences:

General Chemistry – eight semester hours

Geology-Meteorology – three semester hours

Biology-General Oceanography – four semester hours

Bio-Field Oceanography – six semester hours

Bio-Ocean Seminar – one semester hour

C. Electives:

Sufficient to achieve totals given

D. Options:

BIOLOGY EMPHASIS:

Biology 141-142, 245, 346, 443, 444, 445, 446, 417

Geology 141-142

Chemistry 341-342

Mathematics 1335, 234, 236, 237

Physics 141-142

GEOLOGY EMPHASIS:

Geology 141-142, 241, 243, 341, 342, 345, 346 (or CE 339), 433, 419

Engineering 1221, 130

Biology 141-142, 443, 445

Mathematics 1335, 236, 237

Physics 141-142, 430

Marine Biology Option**First Year**

Bio 141-142 General	8
Chm 141-142 General	8
Mth 1335 Pre-Calculus	3
Mth 236 Calculus I	3
Eng Comp	6
Philo 130	3
Health & Wellness	3
	<hr/> 34

Third Year

Bio 349 General Ocean	4
Bio 346 Invert Zool.	4
Bio 444 Vert Nat His	4
Bio 445 Marine Bio	4
Chm 341-342 Organic	8
Am His	6
Spc 131	3
	<hr/> 34

Third or Fourth Summer

Bio 361 Field Course	6
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Total 138 Semester Hours

Second Year

Geo 141-142 Phys, His	8
Phy 141-142 General	8
Mth 237 Calc II	3
Bio 245 Microbiology	4
Statistics	3
Eng Lit	6
PE Swim, Life	2
	<hr/> 33

Fourth Year

Geo 4370 Meteorology	3
Bio 418 Ocean Seminar	1
Bio 417 Bio Lit	1
Bio 446 Ecology	4
Bio 443 Limnology	4
Pols 231, 232	6
Free Electives	6
Fine Arts	3
Social Science	3
	<hr/> 31

Bachelor of Science - Oceanographic Technology**Marine Geology Option****First Year**

Geo 141-142 Phys, Hist	8
Chm 141-142 General	8
Mth 1335 Pre-Calculus	3
Mth 236 Calculus I	3
Eng Comp	6
Phil 130	3
Health & Wellness	3
	<hr/> 34

Second Year

Geo 241-242 Min, Opt Min	8
Bio 141-142 General	8
Mth 237 Calculus II	3
Egr 130	3
Egr 114 Graphics	1
Eng Lit	6
PE Swim, Life	2
Spc 131	3
	<hr/> 34

Third year

Geo 345 Petrology	4
Geo 4370 Meteorology	3
Geo 341 Stat. Data Proc	4
Geo 342 Structural Geo	4
Bio 349 General Ocean	4
Geo 419 Seminar	1
Phy 141-142 General	8
CE 339 Soils Sci	4
or	
Geo 346 Sed Stat	3-4
Bio 443 Limnology	4

35-36

Fourth Year

Geo 433 Geophysics	3
Bio 418 Ocean Seminar	1
Bio 445 Marine Bio	4
Polis 231, 232	6
Am His	6
Free Electives	3
Social Science	3
Fine Arts	3

32

Third or Fourth Summer

Bio 361 Field Course	6
Minimum Total	139

Biology Course (Bio)

130.	Environmental Science	3:3:0
	Fundamental concepts of environmental systems as related to air, water and soil pollution. Control methods related to a modern technological society are considered.	
1400	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.	
1401	Introductory Biology	4:3:2
	A companion course to Biology 1400, 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.	
141	General Biology	4:3:2
	A survey of organisms, molecules, cells, tissues, photosynthesis and genetics.	
142	General Biology	4:3:2
	Vertebrate structure and function, development, reproduction ecology and evolution.	
	<i>Prerequisite: Bio 141.</i>	
143	Human Anatomy and Physiology	4:3:2
	Structure and function of cells, tissues, muscle, skeletal and nervous system. <i>May not be used as a Biology major course.</i>	
144	Human Anatomy and Physiology	4:3:2
	Structure and function of the circulatory, digestive, excretory and reproductive systems.	
	<i>Prerequisite: Bio 143. May not be used as a Biology major course.</i>	
240	Comparative Anatomy of the Vertebrates	4:2:6
	Comparative anatomy presented from systemic viewpoint. Two three-hour labs per week. (Offered Fall semester)	
	<i>Prerequisite: Bio 141-142.</i>	
245	Microbiology	4:3:2
	Micro-organisms with emphasis on those of medical significance and problems of personal and community health.	
	<i>Prerequisite: Credit for Bio 141-142 or Bio 143-144.</i>	
246	Medical Microbiology	4:3:3
	The pathogenesis, epidemiology, prevention and therapy of major infectious diseases. Laboratory includes diagnostic procedures used in identification.	
	<i>Prerequisite: Bio 245</i>	
341	Histology	4:3:3
	Normal tissues of vertebrates including human tissue. (Offered Spring semester)	
	<i>Prerequisite: Bio 141-142 and 240.</i>	
342	Embryology	4:3:3
	Comparative study of meiosis, fertilization, cleavage and early embryology as it relates to human development of vertebrates. (Offered Spring semester)	
	<i>Prerequisite: Bio 141-142.</i>	

- 344 Advanced Physiology** 4:3:3
General physiology, muscle-nerve relations, digestive, circulatory, respiratory, excretory, nervous and endocrine systems.
Prerequisite: Bio 141-142 and Chm 141-142. (Recommended: Chm 341-342.)
- 345 General Botany** 4:3:3
Introduction to plant structure and function with emphasis on the seed plants.
Prerequisite: Bio 141-142.
- 346 Invertebrate Zoology** 4:3:3
Classification, natural history, phylogenetic relationships and economic importance of the invertebrate phyla. (Offered Fall semester)
Prerequisite: Bio 142.
- 347 Genetics** 4:3:3
General principles of heredity, including human inheritance.
Prerequisite: Bio 141-142. (Statistics recommended)
- 349 General Oceanography** 3:3:3
Principles of oceanography. Geological, chemical, physical and biological environments of the ocean. (Offered Fall semester)
Prerequisite: Geo 141, Chm 141.
- 361 Field Course in Estuarine and Coastal Oceanography** 6:5:40
Near shore processes. The application of sampling devices. Laboratory analysis of samples. Small boat handling. Duration: six weeks. Field trip required and special fee assessed. (Offered Summer semester)
Prerequisite: Bio 349, PE 228.
- 4101, 4301, 4401 Special Topics in Biology** 1-4-A:0
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.
- 416 Classical Biological Literature** 1:1:0
A survey of major written works in biology.
Prerequisite: Senior standing in biology.
- 417 Current Biological Literature** 1:1:0
A survey of modern biological works published in recent journals.
Prerequisite: Senior standing in biology.
- 418 Oceanographic Technology Seminar** 1:1:0
Reports on current literature in oceanography for Oceanographic Technology majors.
Prerequisite: Bio 349.
- 430 Undergraduate Problems** 3:0:6
Individual investigation of a research problem in biology. Formal report to be approved by faculty members.
Prerequisite: Prior approval of faculty member, upperclass standing in biology.
- 4302 Cellular Physiology** 3:3:0
Basic processes in physiology, metabolism, transport, energetics, molecular and cellular mechanics. (Offered Spring semester)
Prerequisite: Junior standing, credit for organic chemistry.
- 440 Ornithology** 4:3:3
Natural history, taxonomy and ecology of birds.
- 4402 Taxonomy of Vascular Plants** 4:3:3
The classification of vascular plants; family characteristics, specific identification of the local flora and dominant plants of floristically different areas of Texas.
- 4404 Estuarine Ecology** 4:3:3
Physical, chemical and biological aspects of the zone interfacing freshwater and marine environments. Laboratory includes field trips for collecting data and specimens.
- 4405 Immunology** 4:3:3
Organs, tissues, cells, and molecules of the immune response and their interactions.
Prerequisite: Bio 245
- 4406 Epidemiology** 4:3:3
A study of the distribution and determinants of diseases and injuries in human populations. Laboratory utilizes a case history approach.
Prerequisite: microbiology; statistics recommended.

- 4407 Systematic & Evolutionary Biology** 4:3:3
A survey of evolutionary mechanisms from molecular to population levels. Consideration of speciation, adaptation and historical geology. Laboratory includes selective/adaptive change exercises and techniques such as electrophoresis and cladistic analysis.
- 441 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: Bio 141-142.
- 442 Entomology** 4:3:3
Physiology, morphology, life history, collection, classification and control of insects.
Prerequisite: Bio 141-142.
- 443 Limnology** 4:3:3
Fauna, flora, ecology and productivity of fresh water. (Offered spring semester)
Prerequisite: Bio 141-142.
- 444 Vertebrate Natural History** 4:3:3
Collection, identification and natural history of area fish, amphibians, reptiles, birds and mammals. (Offered Spring semester)
Prerequisite: Bio 141-142.
- 445 Marine Biology** 4:3:3
Habitats and community relationships of marine plants and animals. (Offered spring semester)
Prerequisite: Bio 141-142.
- 446 Ecology** 4:3:3
Quantitative approach to both field and experimental studies. Interrelationships of organisms and their environment. (Offered fall semester)
Prerequisite: Bio 141-142.

Department of Chemistry

Department Chair: Keith C. Hansen **217 Chemistry Building, Phone 880-8267**

Professors: Akers, Cocke, Hansen, Idoux, Ortego, Whittle, Yerick

Associate Professors: Dorris, Harmon, Mejia, Shukla

Assistant Professors: Buonora

Adjunct Research Professors: Aminabhavi, Colapret

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 and to a B.S. degree in Environmental Science. 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 organic synthesis, organic reaction mechanisms, electrochemistry, environmental chemistry, transition metal coordination chemistry, iron metabolism, and molecular spectroscopy. Undergraduates 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.

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. 14.

- B. Science and Mathematics:
 Bio 141, 142 or Geo 141, 142
 Phy 247, 248, 345
 Mth 148, 149, 241
 Phy 133, 134
- C. Chemistry Core:
 Chm 141, 142 General
 Chm 333, 436 Inorganic
 Chm 341, 342, 444 Organic
 Chm 241, 446 Analytical
 Chm 431, 432, 413, 414 Physical
 Chm 411 Chemical Literature
 Chm 412 Senior Seminar
- D. Electives:
 Six to eight semester hours Advanced Chemistry electives 6 semester hours general electives

**American Chemical Society approved degree plan. A grade of "C" or better is required in core chemistry courses (Chm 141, 142, 241, 333, 341, 342, 431, 432)*

Recommended Programs of Study

First Year		Second Year	
Chm 141, 142 General.....	8	Chm 241 Quantitative.....	4
Bio/Geo 141, 142 General.....	8	Chm 333 Inorganic.....	3
Mth 148, 149 Calc An Geo I, II.....	8	Phy 247, 248 General.....	8
Eng Comp.....	6	Eng Lit****.....	6
Hlth 137.....	3	Fine Arts.....	3
Phil 130.....	3	Soc. Sci.....	3
		Mth 241 Calc An Geo III.....	4
		PE.....	4
	36		35
Third Year		Fourth Year	
Chm 341, 342 Organic.....	8	Chm 444 Organic Qual.....	4
Chm 431, 432 Physical.....	6	Chm 446 Instrumental.....	4
Chm 413, 414 Physical Lab.....	2	Chm 411 Chemical Lit.....	1
Phy 345 Modern.....	3	Chm 412 Senior Seminar.....	1
Phy 133, 134.....	6	Chm 436 Inorganic.....	3
Amer His 231, 232.....	6	Chm Electives***.....	6-8
Spc.....	3	Pols 231, 232.....	6
		Electives (outside of major).....	6
	34		31-34

Minimum 132 semester hours + HPE/MLb/ROTC

***To be selected from Chm 430, 437, 441, 442.

****Eng 4335, Report Writing may be substituted for three hours literature.

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. 14.

- B. Science and Mathematics:
 Bio 141, 142, 245, 8 hours**
 Phy 141, 142, 345
 Mth 236, 237
- C. Chemistry Core:
 Chm 141, 142 General
 Chm 241, 446 Analytical
 Chm 333, 436 Inorganic
 Chm 341, 342 Organic
 Chm 441, 442 Biochemistry
 Chm 431, 432, 413, 414 Physical
 Chm 411 Chemical Literature
 Chm 412 Seminar
- D. Electives:
 10-12 semester hours advanced chemistry or biology electives
 Six semester hours general electives

*American Chemical Society approved degree plan. A grade of "C" or better is required in core chemistry courses (Chm 141, 142, 241, 333, 342, 431, 432)

**Selected from Bio 246, 341, 342, 344, 347, 348, 441.

Recommended Program of Study

First Year	
Chm 141, 142 General	8
Bio 141, 142 General	8
Mth 236, 237 Calculus I, II	6
Eng Comp	6
Hlth 137	3
Phil 130	3

34

Third Year	
Chm 341, 342 Organic	8
Chm 431, 432 Physical	6
Chm 413, 414 Physical Lab	2
Bio**	4
Phy 345	3
Amer His 231, 232	6
Fine Arts	3
Soc. Sci.	3

35-36

Second year	
Chm 241 Quantitative	4
Chm 333 Inorganic	3
Bio 245**	8
POLS 231, 232	6
Phy 141, 142	
or	
Phy 247, 248	8
Eng Lit	3
PE	4

36

Fourth Year	
Chm 441, 442 Biochem	8
Chm 446 Instrumental	4
Chm 436 Inorganic	3
Chm 411 Chm Lit	1
Chm 412 Sr. Seminar	1
Eng Lit	3
Bio/Chm Electives***	10-11
Spc	3

33-34

Minimum 134 hours + HPE/MLb ROTC

***To be selected from Chm 430, Chm 437, Chm 444, Bio 341, Bio 342, Bio 347, Bio 441 and Bio 447.

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. 14.
- B. Science and Mathematics:
 Bio 141, 142 or Geo 141, 142

- Phy 141, 142, 345
Mth 236, 237
CS 1311, 132 or Phy 133, 134
- C. Chemistry
Chm 141-142 General
Chm 241 Analytical
Chm 333 Inorganic
Chm 341, 342 Organic
Chm 431, 432, 413, 414 Physical
Chm 411 Chemical Literature
Chm 412 Seminar
- D. Electives and Minor
23 semester hours of electives. Complete degree must include a minor of at least 18 semester hours of which six semester hours must be in advanced courses.

Recommended Program of Study

First Year	
Chm 141, 142 General	8
Bio/Geo 141, 142 General	8
Mth 236, 237 Calculus I, II	6
Eng Comp	6
Hlth 137	3
Phil 130	3

34

Third year	
Chm 341, 342 Organic	8
Phy 345	3
Fre 231, 232 Reading	6
Pol 231, 232 American Government I, II	6
CS 1311, 132 or Phy 133, 134	6
Spc	3
Fine Arts	3

35

Second Year	
Chm 241 Quantitative	4
Chm 333 Inorganic	3
Phy 141, 142 General	8
Fre 131, 132 Elementary	6
Am His 231	6
Eng Lit	6
PE	4

37

Fourth Year	
Chm 431, 432 Physical	6
Chm 413, 414 Physical lab	2
Chm 411 Literature	1
Chm 412 Seminar	1
Minor/Electives	20
Soc Sci	3

33

Minimum 135 + PE/ROTC/MLb

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. 14.
- B. Science and Mathematics
Mth 1335, 236, 237
Phy 141, 142, 345
- C. Biology:
Bio 141, 142, 240, 245, 246, 341, 342, 344, 416, 347, 447
- D. Chemistry:
Chm 141, 142, 241, 333, 431, 432, 413, 414, 441
Eight additional semester hours of advanced chemistry

E. Electives

23 semester hours general electives

Recommended Program of Study

First Year	Second Year
Bio 141-142.....8	Chm 341-342 Organic.....8
Chm 141-142.....8	Mth 237 Calculus.....3
Eng Comp.....6	Eng Lit.....6
Mth 1335 Precalculus.....3	Phy 141-142 General.....8
Mth 236 Calculus.....3	Bio Elective.....4
Hlth 137.....3	Pols 231, 232.....6
Electives.....3	PE.....4
Phil 130.....3	
37	39
Summer	Fourth Year
Phy 335 Modern.....3	Bio 416 and 417 Bio Lit.....2
Bio***.....4	Bioelectives.....8
Chm 241.....4	Chm 441 Biochem.....4
Soc. Sci.....3	Chm Electives* min.....8
14	Electives.....7
	Spc.....3
	32
Third Year	
***Bio from core.....16	
Am His 231, 232.....6	
Chm 413, 414 Physical Lab.....2	
Chm 333 Inorganic.....3	
Chm 431, 432 Physical.....6	
Fine Arts.....3	
36	

*Chm electives to be selected from Chm 430, 442, 444, 446.

***See Biology department listing.

Chemistry Courses (Chm)

135	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 Mth 1334	
141	General	4:3:3
	General practice, problems, fundamental laws and theories.	
	Prerequisite: Chm 135 with a grade of "C" or better or satisfactory performance on diagnostic test.	
142	General	4:3:3
	A continuation of Chm 141. Properties of the elements. Elementary qualitative analysis and theories of solutions and equilibrium.	
	Prerequisite: Chm 141.	
143	Introductory	4:3:2
	For nonscience majors. A survey course in elementary inorganic chemistry.	
144	Introductory	4:3:2
	For nonscience majors. Continuation of Chm 143. Nuclear science, elementary organic and physiological chemistry.	
	Prerequisite: Chm 143 or 141.	
241	Quantitative Analysis	4:3:5
	Theory and practice of analytical chemistry utilizing gravimetric and titrimetric techniques.	
	Prerequisite: Chm 142 with a grade of "C" or better.	
333	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: Chm 142 with grade of "C" or better.	

- 341 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: Chm 142.
- 342 Organic** 4:3:4
A continuation of Chm 341.
Prerequisite: Chm 341.
- 411 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.
- 412 Senior Seminar** 1:1:0
Reports and assigned reading.
Prerequisite: Senior standing in chemistry.
- 413 Physical Laboratory** 1:0:4
Laboratory applications of modern theory in physical chemistry.
Prerequisite: Chm 241, 431 or parallel.
- 414 Physical Laboratory** 1:0:4
Continuation of Chm 413.
Prerequisite: Chm 413, Chm 432 or parallel.
- 430 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: Chm 342, Chm 431 or CHE 441 or parallel.
- 431 Physical** 3:3:0
Modern chemical theory as applied to gases, liquids, solids and solutions.
Prerequisite: Chm 142, Phy 142 or 248, Mth 241 or 237 or parallel.
- 432 Physical** 3:3:0
A continuation of Chm 431.
Prerequisite: Chm 431 or equivalent.
- 436 Inorganic** 3:3:0
The quantized atom, valency and the chemical bond, and coordination chemistry with applications to biological systems.
Prerequisite: Chm 431.
- 441 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: Chm 342.
- 442 Biochemistry II** 4:3:4
A detailed survey of metabolic pathways and processes.
Prerequisite: Chm 441.
- 444 Qualitative Organic Analysis** 4:2:8
Systematic methods for the identification of organic compounds and mixtures of organic compounds.
Prerequisite: Chm 241 and 342.
- 446 Instrumental Chemical Analysis** 4:3:4
Instrumental techniques of chemistry. Theory and practice in optical, electrometric and chromatographic methods.
Prerequisite: Chm 241, 342, 431.
- 448 Environmental Analysis** 4:3:4
The causes of environmental pollution, how environmental samples are collected and analyzed, and current governmental regulations concerning pollutants.
- 427, 437, 447 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, 4201, 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 head.

Department of English and Foreign Languages

Department Chair: Charles Timothy Summerlin

**4 Maes Building,
Phone 880-8558**

Director of Freshman English: Christopher P. Baker

3 Maes Building, Phone 880-8555

Director of English as a Second Language: R. Victoria Price

1 Maes Building, Phone 880-8586

Professors Emeriti: Barnes, Olson

Professors: Baker, Ellis, Georgas, Jones, Price, Strickland*, Summerlin, Wall*

Associate Professors: Daigrepont, Gwynn, Priest, Sheppard

Assistant Professors: Clark, Dublinski, Duncan, Dodson, Hutchings*,
Lister, Loges, Nordgren, Rivers, Sanderson, Saur, Stewart, Yearwood

Lecturers: Agnew, Brown, Chen, Cox, Elmore, Gaskin, Ojobaro, Parker, Preslar,
Smalley, Sullivan, Vick, Whitehead

*retired, part-time

The Department of English and Foreign Languages offers opportunities to study a variety of languages and literatures. The bachelor's and master's degrees are available in English. Scholarly interests of members of the department include old and middle English, the Renaissance, Shakespeare, 18th century studies, English and American romanticism, the Victorian age, and contemporary English and American 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's 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.

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 emphasis and marketable minors available in all three disciplines are options that accommodate the varying career goals of majors in this department.

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. 14. In addition, students must complete a foreign language through the course numbered 232 and History 131 and 132.

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.

English 430 or 4312

English advanced elective: three semester hours.

One may substitute nine hours of writing courses (drawn from English 230, 331, 335, 4326, 4345, and 4355) for nine of the 21 advanced literature and elective hours. See "Writing Programs" below.

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.

Note: All majors should inquire of the department chair concerning the new senior seminar (Eng 411) being added to the degree plan.

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 (Eng 230, 331, and 4355 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 Eng 335 (poetry), Eng 335 (fiction), and 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: His 131 and 132 are not required. CS 130, 1311 or equivalent and PED 3326 are required.
- B. English—Option I Specialization: (30 semester hours) Eng 3321; Eng 4326; one course from Eng 430, 4312 or 4323; two courses from Eng 336, 339, 3322, 3324, 4318, 4328, 4329, 4336, or equivalent; four courses from Eng 332, 334, 336, 337, 338, 3316, 432, 434, 435, 438, 439, 4311, 4314, 4317, 4318, 4319, 4333, 4334, 4337, or equivalent; and one advanced Eng elective. Must include a foreign language through 232.

English—Option II Specialization: (24 semester hours) Eng 3321; Eng 4326; one course from Eng 430; 4312, or 4323; two courses from Eng 336, 339, 3322, 3324, 4318, 4328, 4329, 4336, or equivalent; three courses from Eng 332, 334, 336, 337, 338, 3316, 432, 434, 435, 438, 439, 4311, 4314, 4317, 4318, 4319, 4333, 4334, 4337, or equivalent. When selected as first teaching field, must include a foreign language through 232; as second teaching field, must include a foreign language through 132.

English Language Arts—Option IV Specialization: (42 semester hours) Eng 3321; Eng 4326; one course from Eng 430, 4312, or 4323; fifteen hours of advanced literature (may include 335 or 4345); Speech 131 or 331 (in foundations); Speech 235; Com 133; Com 231; Ped 3326 (in foundations); and Ped 339. Must include a foreign language through 232.

The remaining advanced English hours vary according to option selected are listed below.

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

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

Suggested Program of Study - English

First Year		Second Year	
Eng Comp	6	Eng Lit	6
His 131-132	6	American Hist	6
For Lang 131-132	6	Pols 231, 232	6
Math	6	For Lang 231, 232	6
Philosophy 130	3	Speech	3
Fine Arts	3	Social Science elective	3
PE	4	Health and Wellness	3
	34		33
Third Year		Fourth Year	
Advanced English	12	Advanced English	12
Laboratory Science	8	Minor	9
Minor	9	Electives	9
Elective	3		
	32		30

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. 14.

- B. Major:
 French
 French 131-132: Elementary French
 French 231-232: Intermediate French
 French 330: French Conversation
 French 337: Advanced Grammar and Composition
 French 338: French Phonetics
 Advanced French: nine semester hours of literature and civilization
 Spanish
 Spanish 131-132: Elementary Spanish
 Spanish 231-232: Intermediate Spanish
 Spanish 330: Spanish Conversation
 Spanish 335: 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 CS 130, 1311 or equivalent and PED 3326 are required.

General Requirements

Computing and Technology: CS 130, 1311 or equivalent

Reading C&I 3326

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	
*Major Lang 131-132	6
Eng Comp	6
Math	6
Philosophy 130	3
Fine Arts	3
American History	6
PE	4
<hr/>	
34	

Third Year	
Major Lang: Fre 330, 337 and another advanced	9
or	
Major Lang: Spa 330, 335 and another advanced	9
Laboratory Science	8
Electives including minor	15
<hr/>	
32	

Second Year	
Maj Lang 231, 232	6
Eng Lit	6
Pols 231, 232	6
Speech	3
Social Science elective	3
Health and Wellness	3
Elective	3
<hr/>	
30	

Fourth Year	
Major Lang Advanced	9
Electives including minor	22
<hr/>	
31	

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

Developmental Writing (DWRT)

1301 Developmental Writing

The development of basic composition 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 honors.

English Courses (Eng)

- | | | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 131 | Composition | 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 English 132, 134 and 135. | |
| 132 | Composition | 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. <i>Prerequisite: Eng 131.</i> | |
| 134 | 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.
<i>Prerequisite: English 131.</i> | |
| 135 | Composition | 3:3:0 |
| | Forms of persuasive writing. Topics for composition suggested by the study of rhetoric and collateral readings. Research paper required.
<i>Prerequisite: English 131.</i>
(NOTE: English 131 and one other course from English 132, 134 and 135 will satisfy the general degree requirement in composition. A student may receive credit for only one such course in a semester.) | |
| 136 | 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.
<i>Prerequisite: Admission to English 136 is earned in one of three ways: a score of 3 on the AP test, a score of 600 or better on the SAT verbal test, or a combined score of 1100 or better on the SAT verbal and the English Achievement tests. See the department chair for further information.</i>
<i>English 136 is offered in fall semesters only. Upon completion of the course with a grade of C or better, the student receives credit for both English 131 and 136, thus meeting the general degree requirement in composition.</i>
(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.) | |
| 2311 | Masterworks of World Literature | 3:3:0 |
| | Six-to-ten major monuments of world literature, from classical antiquity to the present century. | |
| 2312 | Masterworks of American Literature | 3:3:0 |
| | Six-to-ten major works of American literature, including both the 19th and 20th centuries. | |
| 2313 | Masterworks of British Literature | 3:3:0 |
| | Six-to-ten major works of British literature, including writers from most of the important periods. | |
| 2316 | African-American Literature | 3:3:0 |
| | Significant contributions to American literature from Colonial times to the present. | |
| 2318 | Sophomore Literature Honors Course | 3:3:0 |
| | Major works of British and World Literature from classical antiquity to the present century, designed especially for honors students. | |
| 2319 | Sophomore Literature Honors Course | 3:3:0 |
| | Major works of British, American and World Literature from classical antiquity to the present century, designed especially for honors students. | |
| 230 | 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. | |

331	Technical Report Writing	3:3:0
	Supervised preparation of technical and scientific reports according to standard usage recommended by scientific and engineering societies.	
332	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.	
334	Mythology	3:3:0
	Mythologies of the ancient Greeks, Romans, and Norse peoples and other cultures.	
335	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.	
336	The Short Story	3:3:0
	The technique of the short story; its historical development; study and analysis of great short stories.	
337	The Drama	3:3:0
	The historical development of the drama from Aeschylus to the present. Intensive study of selected plays.	
338	Studies in the British Novel	3:3:0
	The tradition of the British novel, eighteenth century to the present.	
339	American Novel	3:3:0
	History, growth and technique of the American novel.	
3316	Poetic Analysis	3:3:0
	Forms and techniques and the critical evaluation of poetry.	
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.	
411	Senior Seminar	1:1:0
	A capstone course for seniors, surveying the discipline and profession and relevant areas of language and literature.	
430	History of the English Language	3:3:0
	Theory and nature of language. Studies in the growth of English and American forms.	
432	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.	
434	Shakespeare	3:3:0
	Selected major plays. May be taken for credit more than once if the topic varies.	
435	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.	
438	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.	
439	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.	
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 Foundations in Teaching ESL** 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.
- 4326 Studies in Rhetoric** 3:3:0
A writing-intensive course focusing on a variety of possible concerns, including principles of classical rhetoric, matters of style and fundamentals of research. A unit on writing the critical paper is included. Students are encouraged to take the course early in their upper-division studies.
- 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 in American Literature** 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.
- 4337 Directed Studies in British Literature** 3:3:0
Study in British literature in an area of mutual interest. May be taken for credit more than once if the topic varies.
Prerequisite: Junior standing.
- 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: English 335 or permission of the instructor (for any creative writing seminar).
- 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 English 331, 4326, or 4345 (when technically oriented) or permission of the instructor.

Philosophy Courses (Phi)

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.

- 130 Philosophy of Knowledge** 3:3:0
A survey of major knowledge systems with an emphasis on the scientific and humanistic methods of inquiry.
- 131 Introduction to Philosophy** 3:3:0
General characteristics of philosophy as a field of knowledge and as a method of inquiry.
- 232 Logic** 3:3:0
Nature and methods of correct reasoning; deductive and inductive proof; logical fallacies.
- 333 History of Philosophy I, Ancient and Medieval Philosophy** 3:3:0
Western philosophic thought from its inception in Greece to the end of the Medieval period.

- 334 **History of Philosophy II, Modern Philosophy** 3:3:0
Philosophic thought from the Renaissance through the 19th century; emphasis upon philosophers of the 17th and 18th centuries.
- 430 **Topics in Philosophy** 3:3:0
Selected topics in philosophy. Course may be repeated for credit when topic changes.
- 432 **Philosophy of Science** 3:3:0
The major schools of thought in the philosophy of science with emphasis on the twentieth century.

English as a Second Language (ESL)

Advisor: Victoria Price

1 Maes Building, Phone 880-8586

Students for whom English is a second language are required to demonstrate English proficiency by scoring a minimum of 80 on the proficiency/placement test required of entering students. Those students whose scores fall below 80 are placed in a developmental support course until satisfactory scores are achieved.

A student placed in ESL 134 must enroll for the course, *and the section* in which he is placed, during the semester in which he is tested; the course may not be dropped by the student.

- 134 **Developmental Skills in ESL** 3:3:0
Students for whom English is a second language are placed in the course when English proficiency scores fall below the required minimum. Does not satisfy degree requirements in English. Graded on Unsatisfactory-Satisfactory-No Grade (retain) basis.

After the satisfactory level of proficiency is attained, the student may satisfy degree requirements in English by completing the following courses:

Freshman Composition:

ESL 135 and ESL 136 are parallel in content to the freshman composition courses taken by native speakers of English. The ESL sections differ only in teaching methods that speak to distinctive needs of a non-native user of English.

ESL 135 is prerequisite to ESL 136, 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.

- 135 **Composition: English as a Second Language** 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.
- 136 **Composition: English as a Second Language** 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: ESL 135.

Literature:

ESL 231, ESL 232 or ESL 233 satisfies the degree requirement in literature for the student for whom English is not a native language. ESL 135 and ESL 136 are prerequisite to all the literature courses. The literature courses may not be taken concurrently with ESL 134, 135 or 136.

- 231 **Masterpieces in British Literature** 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: ESL 135 and 136.
- 232 **World Masterpieces in English Translation**
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: ESL 135 and 136.

233 Masterpieces in American Literature

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: ESL 135 and 136.

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: English 4320, 4321, 4322, 4323. See the list of English courses for titles and descriptions.

Chinese Courses (Chi)**131 Elementary Chinese****3:3:0**

Introduction to modern Chinese, with emphasis on the spoken language. Focus on basic Chinese pronunciation, characters and syntax.

French Courses (Fre)**131 Elementary French****3:3:0**

Language course for beginners. Includes grammar, pronunciation, conversation, reading, dictation and written exercises, and language lab practice.

132 Elementary French**3:3:0**

Continuation of material in 131.

Prerequisite: Fre 131 or equivalent determined by examination.

231 Intermediate French**3:3:0**

Review of grammar, reading, composition, conversation, including language lab practice.

Prerequisite: Fre 132 or equivalent.

232 Intermediate French**3:3:0**

Prerequisite: Fre 231 or equivalent.

330 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 Fre 232 to meet the language requirement for the Bachelor of Arts degree.) May be repeated for credit with approval of department.

Prerequisite: Fre 231 or equivalent.

335 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: French 232 or equivalent.

336 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: Fre 232 or equivalent.

337 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: Fre 232 or equivalent.

338 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: Fre 232 or equivalent.

339 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: French 232 or equivalent.

430, 430G Teaching Spoken French**3:3:0**

Prerequisite: Approval of department head.

- 431 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: Fre 232 or equivalent.
- 439 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: Fre 232 or equivalent.
- 437, 437G Teaching French Composition** 3:3:0
Prerequisite: Approval of department head.

German Courses (Ger)

- 131 Elementary German** 3:3:0
Pronunciation, conversation, reading, dictation, grammar. Use of tapes.
- 132 Elementary German** 3:3:0
Continuation of material in 131.
Prerequisite: Ger 131 or equivalent determined by examination.
- 231 Intermediate German** 3:3:0
Review of grammar, reading, composition and conversation. Use of tapes.
Prerequisite: Ger 132 or equivalent.
- 232 Intermediate German** 3:3:0
Continuation of material in 231.
Prerequisite: Ger 231 or equivalent.

Japanese Courses (Jpn)

- 131 Elementary Japanese** 3:3:0
Introduction to modern Japanese with emphasis on the spoken language. Focus on pronunciation, characters and syntax.
- 132 Elementary Japanese** 3:3:0
Continuation of Jpn 131. More complex structures, more extensive vocabulary.
Prerequisite: Jpn 131 or equivalent.
- 231 Intermediate Japanese** 3:3:0
More advanced aspects of contemporary Japanese. Affective expressions, honorific and humble forms, male/female patterns of expression.
Prerequisite: Jpn 132 or equivalent.
- 232 Intermediate Japanese** 3:3:0
Continuation of Jpn 231. Further development of reading and writing skills.
Prerequisite: Jpn 231 or equivalent.

Spanish Courses (Spa)

- 131 Elementary Spanish** 3:3:0
Pronunciation, conversation, reading, dictation, grammar, including language lab practice.
- 132 Elementary Spanish** 3:3:0
Continuation of material in 131.
Prerequisite: Spa 131 or equivalent determined by examination.
- 231 Intermediate Spanish** 3:3:0
Review of grammar, reading, composition, conversation. Language lab practice.
Prerequisite: Spa 132 or equivalent.
- 232 Intermediate Spanish** 3:3:0
Prerequisite: Spa 231 or equivalent.
- 330 Spanish Conversation** 3:3:0
Required of all majors.
Prerequisite: Spa 231 or equivalent.
(NOTE: This course may not be substituted for Spa 232 to meet the language requirements for the Bachelor of Arts degree.)

- 331 Culture and Civilization of Spain** 3:3:0
Geography, history, government, art, economic resources and psychology of Spain. Lectures, readings, oral and written reports.
Prerequisite: Spa 232 or equivalent.
- 332 Culture and Civilization of Spanish America** 3:3:0
The geography, history, government, art, economic resources and psychology of the Spanish-speaking countries of Latin America. Lectures, readings, oral and written reports.
Prerequisite: Spa 232 or equivalent.
- 333 Survey of Spanish-American Literature I** 3:3:0
Hispanic America's outstanding writers and their works up to the *modernista* movement. Lectures, readings, oral and written reports.
Prerequisite: Spa 232 or equivalent.
- 334 Survey of Spanish-American Literature II** 3:3:0
Hispanic America's outstanding writers and their works from the *modernista* movement to the present. Lectures, readings, oral and written reports.
Prerequisite: Spa 232 or equivalent.
- 335 Advanced Grammar and Composition** 3:3:0
Vocabulary building, intensive review of grammar as needed for sentence structure. The development of the paragraph in written composition. Frequent written reports.
Prerequisite: Spa 232 or equivalent.
- 338 Survey of Spanish Peninsular Literature I** 3:3:0
Spain's outstanding writers and their works up to the generation of 98. Lectures, readings, oral and written reports.
Prerequisite: Spa 232 or equivalent.
- 339 Survey of Spanish Peninsular Literature II** 3:3:0
Spain's outstanding writers and their works from the generation of 98 up to the present. Lectures, readings, oral and written reports.
Prerequisite: Spa 232 or equivalent.
- 430, 430G Teaching Spoken Spanish** 3:3:0
Prerequisite: Approval of department head.
- 432 The Spanish Novel** 3:3:0
Selected major writers and works from Spain. Lectures, readings, oral and written reports. May be taken for credit more than once if topic varies.
- 436 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: Spa 232 or equivalent.
- 437, 437G Teaching Spanish Composition** 3:3:0
Prerequisite: Approval of department head.
- 438 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.

Study Abroad

Each summer the English and Foreign Languages Department participates in various study abroad programs.

English courses are sometimes offered in London and in Rome with a senior member of the English faculty participating in each program. The undergraduate and graduate student may receive course credit while experiencing the cultural and historical environment of the region under the guidance of experienced faculty. Contact the department chair or the Office of Public Services and Continuing Education (880-2294) for further information.

The Language Study Abroad Program (LSAP) of the Department of English and Foreign Languages of Lamar University 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 often 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 listed may not be substituted for other courses specially required for major. Contact the department chair (880-8558) or Dr. Kenneth Rivers (880-8595) for further information.

Department of Geology

Department Chair: Donald E. Owen

214 Geology Building, Phone 880-8236

Professors: Aronow, Owen, Stevens

Associate Professors: Cooper, Jordan

Assistant Professor: Westgate

Lecturer: Pittman

Energy Resources Management Coordinator: Donald E. Owen

Earth Science Coordinator: James W. Westgate

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

The Geology Department specializes in undergraduate instruction and offers bachelor's degrees in Geology, Earth Science and Energy Resources Management. 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.

Geology faculty have a broad range of research and scholarly interests. These include stratigraphy, sedimentology, paleontology, petroleum geology, geomorphology, petrology and geochemistry as well as soils and Pleistocene 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 in trigonometry are recommended for prospective majors. Students with inadequate chemistry background must take Chemistry 135 to make up the deficiency. Math 1334 may also be required of students with inadequate high school mathematics.

Bachelor of Science - Geology

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

A. General Requirements:

See core curriculum, p. 14.

B. Geology Requirements – 60 or 61 semester hours. NOTE: A grade of "C" or better is necessary in a required geology course.

Physical and Historical Geology – eight semester hours

Mineralogy – four semester hours

Optical Mineralogy – four semester hours

Statistics and Data Processing – four semester hours

Structural Geology – four semester hours

Petrology – four semester hours

Sedimentology – four semester hours

Summer Field Course – six semester hours

Seminar - one semester hour
 Geophysics - three semester hours
 Geomorphology - Four semester hours
 Principles of Stratigraphy - four semester hours
 Paleontology - four semester hours
 Geochemistry or Tectonics of North America - three or four semester hours
 Economic Mineral Deposits or Fossil Fuels - three semester hours

C. Minimum Total: 131 semester hours

First Year

Geo 141-142 Phys. Hist	8
Chm 141-142 General	8
Mth 1335 Pre-Calculus	3
Mth 148 Analyt Calculus I	4
Eng Comp	6
PE	2

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Third Year

Geo 341 Stat-Data Proc	4
Geo 3 2 Structural Geo	4
Geo 345 Petrology	4
Geo 346 Sedimentology	4
Geo 441 Stratigraphy	4
Phy 141-142 General*	8
Eng Lit or For Lang	3
Ant 131	3

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Third or Fourth Summer

Geo 360 Field Camp	6
Minimum Total 131	

Second Year

Geo 241 Mineralogy	4
Geo 243 Optical Min	4
Mth 149 Analyt Calculus II	4
Phy 133 Scientific Computing	3
Eng Lit	3
Spc 331 or Eng 4326	3
POLS 231, 232	6
Phil 130	3
Hlth 137	3

33

Fourth Year

Geo 419 Seminar	1
Geo 433 Geophysics	3
Geo 436 or Geo 439	3
Geo 445 Geomorphology	4
Geo 437 or Geo 438	3
Geo 442 Palco	4
Am His	6
Fine Arts	3

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*Those planning to specialize in Geophysics should substitute the sequence Phy 247, 248.

Bachelor of Science - Energy Resources Management

Major Advisor: D.E. Owen

214 Geology Building, Phone 880-8236

The Bachelor of Science in Energy Resources Management (ERMA) will be awarded upon completion of the following requirements:

A. General Requirements:

See core curriculum, p. 14.

B. Required Courses - 69 semester hours:

Philosophy - three semester hours

English Composition - six semester hours

English Literature - three semester hours

English Literature or Foreign Language - three semester hours

Speech or Technical Report Writing - six semester hours

Political Science (state and national government) - six semester hours

Social Science - three semester hours

History - six semester hours

Fine Arts - three semester hours

Physical Education - two semesters

Health and Wellness - three semester hours

- Mathematics - seven semester hours
- Chemistry - eight semester hours
- Introduction to computers - three semester hours
- Physics - four semester hours
- Chemical Engineering - three semester hours
- C. Geology Requirements - 38 semester hours:
 - Physical and Historical Geology - eight semester hours
 - Mineralogy - four semester hours
 - Optical Mineralogy - four semester hours
 - Structural Geology - four semester hours
 - Petrology - four semester hours
 - Statistics and data processing - four hours
 - Sedimentology or Stratigraphy - four semester hours
 - Economic Mineral Deposits - three semester hours
 - Fossil Fuels - three semester hours
- D. Business Requirements - 33 semester hours:
 - Principles of Accounting - six semester hours
 - Business Analysis and Computers - three semester hours
 - Business Law and Legal Principles - six semester hours
 - Petroleum Law - three semester hours
 - Principles of Economics - six semester hours
 - Economics of International Trade - three semester hours
 - Economics of World Resources - three semester hours
 - Principles of Management - three semester hours

Minimum Total: 136 hours

Recommended Program of Study

First Year		Second Year	
Geo 141-142 Phys, Hist	8	Geo 241-243 Mineralogy, Optical.....	8
Chm 141-142 General.....	8	Phy 141 General.....	4
Mth 1335 Pre-calculus.....	3	Acc 231-232 Principles.....	6
Mth 148 Analyt calculus I.....	4	Eco 131-132 Principles.....	6
Eng Comp.....	6	Eng Lit.....	3
PE.....	2	CS 1311.....	3
HLTH 137.....	3	Pol 231 American Government I.....	3
		Phil 130.....	3
<div>34</div>		<div>32</div>	
Third Year		Fourth Year	
Geo 345 Petrology.....	4	Geo 438 Fossil Fuels.....	3
Geo 342 Structural Geo.....	4	Geo 346 Sedimentology.....	4
Geo 437 Econ Min. Deposits.....	3	Che 438 Petroleum Egr.....	3
BAC 331.....	3	Mgt 331 Management.....	3
Amer His 231.....	3	Blw 434 Adv. Legal Princ.....	3
Blw 331 Bus. Law.....	3	Blw 438 Petroleum Law.....	3
Eco 335 Intern'l Trade.....	3	Pol 232 American Government II.....	3
Spc 331.....	3	Am Hist 232.....	3
Eng Lit or For Lang.....	3	Eco 438 Economic of World Resources.....	3
Ant 131.....	3	Fine Arts.....	3
	<div>32</div>		<div>32</div>
Minimum Total 132		<div>33</div>	

Bachelor of Science - Earth Science

Major Advisor: James W. Westgate

214 Geology Bldg., Phone 880-8236

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

- A. General Requirements:
See core curriculum, p. 14.
- B. Required Courses - 55 semester hours:
 - Philosophy - three semester hours
 - English Composition - six semester hours
 - English literature - six semester hours
 - Speech or technical report writing - three semester hours
 - Political science - six semester hours
 - Social science - three semester hours
 - History - six semester hours
 - Fine arts - three semester hours
 - Physical education - two semesters
 - Health - three semester hours
 - Mathematics - three semester hours
 - Chemistry - four semester hours
 - Astronomy - three semester hours
 - Introduction to computers - three semester hours
 - Statistics - four semester hours
- C. Geology Requirements - 35 semester hours:
NOTE: A grade of "C" or better is necessary in a required geology course.
 - Physical and historical geology - eight semester hours
 - Mineralogy - four semester hours
 - Environmental geography and geology - three semester hours
 - Advanced laboratories - two semester hours
 - Paleontology - four semester hours
 - Geomorphology - four semester hours
 - Tectonics - four semester hours
 - Meteorology - three semester hours
 - Oceanography - three semester hours
- D. Electives—37 semester hours:

TEACHING CERTIFICATION: Students desiring certification to teach in Texas schools should complete: PED 331, 332, 3326, 334 or 338, 434 or 438, and 462 or 463 or 465 and an additional 3 semester hours of mathematics as part of their electives. Also, an additional 9 semester hours of electives should be chosen from 3 of the following categories: Humanities; Social Science; Natural Science; Mathematics; Foreign Languages; Fine Arts. (total: 30 semester hours). Students are advised to consult with the Director of Certification in the College of Education regarding current requirements for teaching certification.

Minimum total: 125 semester hours.

First Year

Geo 141-142 Phys, Hist	8
Mth 1334 College Algebra	3
Chm 143 Introductory	4
Eng Comp	6
Phil 130	3
Ant 131	3
PE	2
Hlth 137	3

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Third Year

Geo 3101-3102 Adv Labs	2
Geo 4370 Meteorology	3
Geo 4380 Oceanography	3
Pol 231 American Govt I, II	6
Electives	16

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Second Year

Geo 241 Mineralogy	4
Geo 339 Envir. Geography and Geology	3
Phy 137 or Geo 2301 Astronomy	3
Cs 1311 or Phy 133 Computing	3
Psy 241 Statistical Methods	4
Eng Lit	6
Spc 131	3
Am His 231, 232	6
Fine Arts	3

Fourth Year

Geo 442 Invert Paleontology	4
Geo 445 Geomorphology	4
Geo 439 Tectonics N Am	4
Electives	19

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Minimum Total ~~27~~ **25****Geology Courses (GEO)**

141 Physical Geology	4:3:2
Earth materials, structures, land forms, mineral resources and processes which formed them.	
142 Historical Geology	4:3:2
History of earth and its inhabitants during geologic time.	
<i>Prerequisite: Geo 141</i>	
235 U.S. and Texas Geography	3:3:0
Major landforms, climatic zones, and geographical features and interrelationships among natural resources, industry, agriculture, and geography of the fifty United States, with special emphasis on Texas.	
236 Regional Geography	3:3:0
National, regional and continental units considered from the viewpoint of language, race, religion, political organization, economy, and physical landscape.	
237 Physical Geography	3:3:0
Fundamental concepts of local, regional, and global geography.	
<i>Prerequisite: Sophomore standing.</i>	
238 Cultural Geography	3:3:0
History and distribution of cultural groups, with emphasis upon interaction between geographic environment and human cultures.	
239 History of Life	3:3:0
Origin of life on Earth. Fossils and evolution of organisms during geologic time, including emergence of <i>Homo sapiens</i> .	
241 Mineralogy	4:3:3
Classification, properties, occurrence, and identification of minerals. Field trip and special fee required.	
<i>Prerequisite: Geo 141 and Chm 141 or 143.</i>	
243 Optical Mineralogy	4:3:3
Optical properties of minerals. Use of polarizing microscope in identification of minerals.	
<i>Prerequisite: Geo 241.</i>	
336 Geology of Texas	3:3:0
Topography, physiography, structure, geologic history and mineral deposits of Texas. Field trip and special fee required.	
<i>Prerequisite: Geo 141 or GEO 239.</i>	
339 Environmental Geography and Geology	3:3:0
Environmental significance of human development as related to atmospheric, aquatic and mineral resources. Field trips and special fee required.	
<i>Prerequisite: GEO 141 or 237.</i>	
341 Statistics and Data Processing	4:3:3
Application of digital computer and statistical techniques to the analysis of earth science data.	
<i>Prerequisite: Egr 1221, CS 235, Geo 345.</i>	

- 342 Structural Geology** 4:3:3
Rock deformation and geologic structures. Field trip and special fee required.
Prerequisite: Geo 241, Mth 148.
- 345 Petrology** 4:3:3
Classification, properties, and occurrence of rocks. Macro and micro techniques for the identification of rocks. Field trip and special fee required.
Prerequisite: Geo 243.
- 346 Sedimentology** 4:3:3
Derivation and deposition of sediments. Environmental interpretation of sedimentary strata. Field trip and special fee required.
Prerequisite: Geo 345.
- 360 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: Geo 342, 345.
- 419 Seminar** 1:1:0
Written and oral reports on current geological literature. May be repeated for credit.
Prerequisite: 20 semester hours of Geology.
- 427, 428 Special Project** 4:A:0
An individual library, laboratory, or field project. To receive credit, an acceptable typewritten report is required.
Prerequisite: Consent of instructor
- 433 Geophysics** 3:3:0
Application of the principles of physics to geologic problems. Use of geophysical techniques in petroleum exploration.
Prerequisite: Geo 342, Phy 142, Mth 149.
- 436 Geochemistry** 3:3:0
Application of chemistry to the solution of geological problems.
Prerequisite: Chem 142, Geo 243
- 437 Economic Mineral Deposits** 3:3:0
Origin and occurrence of commercially valuable minerals and rocks. Field trip and special fee required.
Prerequisite: Geo 345 or 4350
- 438 Fossil Fuels** 3:3:0
Origin and occurrence of coal, oil and gas deposits. Field trip and special fee required.
Prerequisite: Geo 345 or 4350.
- 439 Tectonics of North America** 3:2:3
Principles of plate tectonics and their application to geologic history of North America. Field trip and special fee required.
Prerequisite: GEO 142 and permission of instructor.
- 441 Principles of Stratigraphy** 4:3:3
Fundamental principles: nomenclature; correlation; facies; unconformities; transgression/regression; sequences, genetic and event stratigraphy; subsurface and seismic stratigraphy. Field trip and special fee required.
Prerequisite: Geo. 142 and consent of instructor.
- 442 Paleontology** 4:3:3
Classification, morphology and identification of fossils. Application of paleontology to stratigraphic correlation. Field trip and special fee required.
Prerequisite: Geo 142 and consent of instructor.
- 445 Geomorphology** 4:3:3
Development and classification of land forms. Field trip and special fee required.
Prerequisite: Geo 342.
- 2310 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 will be included. For both non-science and science majors. There are no prerequisites.
- 3101 Advanced Physical Geology Laboratory** 1:0:3
Advanced laboratory techniques in physical geology.
Prerequisite: GEO 141.

3102	Advanced Historical Geology Laboratory	1:0:3
	Advanced laboratory techniques in historical geology. <i>Prerequisite: GEO 142.</i>	
4101, 4201, 4301	Special Topics in Earth Science	1-3:A:0
	Topics in earth sciences. May be repeated for credit when area of study is different. <i>Prerequisite: Consent of instructor.</i>	
4350	Earth Materials	3:3:0
	Minerals and rocks. Field trip and special fee required. A student may not receive credit for both Geo 4350 and Geo 241-243, 345. <i>Prerequisite: Geo 141 or 237.</i>	
4370	Meteorology	3:3:0
	Composition and processes of the atmosphere. Weather and climate and their effect on human activities. <i>Prerequisite: Eight hours of science.</i>	
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. <i>Prerequisite: Eight hours of science.</i>	

Department of History

Department Chair: Adrian N. Anderson **57 Maes Building, Phone 880-8511**

Professors: Anderson, Carroll, Gwin, Isaac, Johnson, Mackey, Storey, Sutton, Wooster

Associate Professors: Fritze, Holt, Woodland

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. 14. In addition, students must complete a foreign language 232 course, and may substitute a math course with approval.
- B. **Major:**
History 131-132 - World History — six semester hours.
Sophomore American History — six semester hours.
History 339 - 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.

Recommended Program of Study

First Year		Second Year	
His 131-132 World History.....	6	American History.....	6
Eng Comp.....	6	Eng Lit.....	6
Mathematics.....	6	Elective.....	3
Social Science.....	3	Foreign Language.....	3
Philosophy 130.....	3	Science.....	8
Electives.....	6	POLS.....	6
PE.....	2		
	32		32
Third Year		Fourth Year	
His 339.....	3	His (Adv).....	6
His (Adv).....	6	Minor.....	9
Speech.....	3	Electives.....	17
Fine Arts.....	3		
Hlth.....	3		
Minor.....	9		
Electives.....	3		
	30		32

History Courses (His)

131	History of World Civilization	3:3:0
	World history to 1660.	
132	History of World Civilization	3:3:0
	World history from 1660 to 1965.	
134	History of Texas	3:3:0
	Texas history from the beginning to the present time.	
231	American History: History of the United States, 1763 to 1877	3:3:0
	United States history from the revolutionary period through reconstruction.	
231H	American History: History of the United States, 1763 to 1877	3:3:0
	United States from the revolutionary period through reconstruction, designed especially for honors students.	
	<i>Prerequisite: Departmental approval.</i>	
232	American History: History of the United States, 1877 to the Present	3:3:0
	United States history from the post-reconstruction period to the present.	
232H	American History: History of the United States, 1877 to the Present	3:3:0
	United States history from the post-reconstruction period to the present, designed especially for honors students.	
	<i>Prerequisite: Departmental approval.</i>	
233	American History: The Development of Society in America	3:3:0
	Social change in the United States.	
234	American History: The Arts in America	3:3:0
	Cultural life in the United States.	
237	Military History of the United States	3:3:0
	History of American warfare and the development of American military institutions and practices.	
	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 History 231, 232, 233, 234 or 237.	
339	Historical Research	3:3:0
	Principles and methods of historical research.	
430	Era of the Renaissance and Reformation	3:3:0
	Western Europe from 1453 to 1610.	

431	The Old Regime	3:3:0
	Western Europe from 1610 to 1783.	
432	The French Revolution and Napoleon	3:3:0
	Western Europe from 1783 to 1815.	
435	20th Century Europe	3:3:0
	Europe since 1914.	
436	The American West	3:3:0
	The American West from colonial times to the present.	
437	The Old South	3:3:0
	The American South from colonial times to the Civil War.	
439	Honors Program	3:A:0
	A tutorial program for honors seniors. Admission by invitation only.	
4311	Colonial America	3:3:0
4312	The American Revolution	3:3:0
4313	The Age of Jackson	3:3:0
4314	The American Civil War	3:3:0
4315	Reconstruction and Industrialization: The United States from 1865 to 1898	3:3:0
4316	World Power and Reform: The United States from 1898 to 1920	3:3:0
4317	New Deal and World Leadership: The United States from 1920 to 1940	3:3:0
4318	Classical Civilization	3:3:0
	Greece and Rome from earliest times to the fall of the Roman Empire in the West.	
4319	Medieval Civilization	3:3:0
	Western Europe and the Mediterranean area from the late Roman period to 1453.	
4325	Tudor and Stuart England	3:3:0
	England from 1485 to 1688.	
4327	Victorian England	3:3:0
	Great Britain from 1815 to 1914.	
4328	Contemporary America: The United States Since 1940	3:3:0
4335	Topics in History	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.	
4336	Ancient Near East	3:3:0
	The civilizations of the Near East from the earliest times to the pre-classical period.	
4341	World War II	3:3:0
	A military, political and social history of World War II.	
4342	Nazi Germany	3:3:0
	A military, political, and social history of Nazi Germany.	

Department of Military Science

Department Chair: Captain David Eddy

ROTC Building, Phone 880-8560

Assistant Professor: Eddy, Jellison

ROTC Program

Practical leadership and management training applicable to both civilian and military career options is offered through the Lamar University Reserve Officers' Training Corps Program. The ROTC program has as its primary objective the commissioning of junior officers who by their education, training and inherent qualities are capable of filling positions of leadership in the active or reserve components of the United States Army. The program is open to both male and female students of all academic majors.

The Department of Military Science course offerings consist of the basic course (100-200 level) and the advanced course (300-400 level). No military service obligation is incurred for students enrolled in the basic course. Students in all courses are furnished textbooks and instructional material at no cost.

Requirements for Admission

Basic Course: All courses offered as part of the basic course are treated the same as other electives in the curricula. All physically fit, male and female, freshman and sophomore students, may qualify to enroll. Students desiring to participate need only to register for basic military science courses. These courses may be taken in lieu of required Health and Physical Education courses. Due to the physical requirements, no physically impaired students are normally accepted in the Military Science Program. Additionally, developmental students are strongly discouraged from taking Military Science courses until they have completed their remediation. Juniors and seniors may take freshman level courses with permission of the department chair only. Basic course students are required to attend the Leadership Lab.

Advanced Course: The two-year advanced course is elective in that any qualified students may apply for admission, and selective in that the application requires the approval of the Professor of Military Science. Students who have at least two years of college remaining, maintain a 2.0 or better quality point average, complete the basic course or who qualify by prior military training and are physically qualified are eligible for enrollment in the advanced course. The advanced course leads to an officer's commission in the United States Army Reserve or regular Army and is pursued under a written agreement with the Department of the Army. Advanced course contract students are paid approximately \$2,500.00 for the two-year course which includes attendance at the ROTC summer camp.

Two-Year Program: Students transferring or currently enrolled at Lamar who cannot complete the basic course prior to becoming academic juniors or graduate students with at least two years remaining may qualify to enter the advanced course by successfully completing a 6-week Leadership Seminar course, conducted each summer at Fort Knox, Ky. Academic credit and pay are granted to students attending the course. Applications should be submitted to the Department of Military Science by April 15.

Credit for Previous Military Training: Students with previous military training may qualify for placement directly into the advanced course. The professor of Military Science determines the placement, which is acceptable to the Army, for each student requesting this classification. All students must have 60 credit hours and an overall 2.0 GPA.

Veterans: Students who have prior military service may be eligible for advanced placement provided their active duty was completed within the last five years.

National Guard/Reserves: Students who are currently members of the United States Army Reserves or the National Guard are eligible for advanced placement under the Simultaneous Membership Program.

Students desiring additional information concerning the Army ROTC program should write to Professor of Military Science, Lamar University Station, Box 10060, Beaumont, TX 77710. Phone calls may be made collect to: (409) 880-8560, 8569.

Military Science Courses (MS)

- | | | |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 121 | Learn What It Takes to Lead
Designed to emphasize leadership principles and confidence building through activities such as mountaineering, orienteering and class discussions, as well as basic leadership skills — all of which are inherent in learning what it takes to lead. | 2:2:2 |
| 122 | Woodland Skills/Survival
Basic survival and field skills emphasizing leadership principles and ethics. Survival techniques taught include shelter construction, first aid, water procurement and directional finding techniques. Exercises on group dynamics and corporate survival skills are also included. | 2:2:2 |

- 221 Small Unit Leadership Skills** 2:2:2
Basic skills necessary for a small unit to perform in a military environment. Subjects covered in the course include: Weapons, tactics, leadership and the enemy threat. Students plan and participate in a small unit operation in a field training exercise during the semester.
Prerequisite: MS 121, 122 or permission of the PMS.
- 222 Leadership and Management** 2:2:2
Human behavior, values, ethics, motivational techniques, and leadership are examined as they relate to accomplishment of objectives. The functions of management, planning, organizing, directing, staffing, and controlling are introduced. Practical exercises, classroom discussions and films are used to illustrate current management philosophies and techniques.
Prerequisite: MS 121, 122 or permission of the PMS.

Advanced Courses

Note: Prerequisites for enrollment in the advanced courses are as determined by the Professor of Military Science.

- 331 Military Roles** 3:3:2
Development of the student's ability to express himself clearly and accurately in the process of analysis and evaluation of military problems and the projection of solutions. Discussion of the military environment in the field and in garrisons. Introduction to the employment of the infantry platoon through map and practical exercises.
- 332 Tactical Concepts** 3:3:2
Analysis of the platoon leader's role in directing and coordinating the efforts of individuals, small units, and the combined arms team in the execution of military operations. Related aspects include communications, tactics, weaponry, patrolling and map exercises designed for advanced camp preparation.
- 333 ROTC Advanced Camp**
Practical application of tactics; leadership training and practice; and arms qualification. Six weeks during the summer at a military reservation designated by the Department of the Army (no fee).
Prerequisite: Military Science III courses and/or permission of PMS.
- 431 Staff Organization and Management** 3:3:2
Methods of organization, administrative management, and personnel management are examined through conferences and practical exercises. Staff operation of the cadet corps and practical exercises in leadership are conducted during a leadership laboratory.
- 432 Military Ethics** 3:3:2
Organization, capabilities, and mission of military units are examined through lectures and conferences. A block of instruction emphasizes the military law system. World changes and military implications related to the role of the Army are considered. Active duty career planning is studied. Staff operation of the cadet corps and practical exercises are conducted during a leadership laboratory.
MS—Leadership Laboratory
Practical application of classroom instruction emphasizing physical fitness, drill and ceremonies, and basic military skills. Participating students are provided all uniforms and equipment. Participation is required of all MS students.

Special Programs

U.S. Army ROTC Basic Camp

(Maximum of eight credit hours) The ROTC Basic Camp is a six-week summer course conducted at Fort Knox, Kentucky for students who cannot complete the Basic Course (four electives) prior to becoming academic Juniors. In addition to free room, board, and transportation, students are paid approximately \$600.00. Training includes practical exercises to enhance confidence, physical fitness and leadership qualities.

Prerequisite: Approval of the PMS.

Rangers

An adventure oriented organization designed to develop leadership qualities through small unit tactics, self-discipline, self-confidence, and resourcefulness. Members participate in several field training exercises during the semester. Open to all interested and qualified students with at least a 2.0 GPA.

Adventure Training

Students may apply to attend Northern Operations Training (Alaska), Airborne – Parachutist – Training (Georgia), or Air Assault Training (Kentucky).

ROTC Scholarships

Competitive three- and two-year scholarships which pay for all tuition fees, laboratory fees, textbooks, and other required academic expenses, except room and board, are available. In addition, the scholarship holder receives \$100 per month for the duration of the scholarship, except for the six-week advanced summer camp, during which the student is paid one-half the basic monthly pay of a second lieutenant plus travel expenses to and from camp.

Department of Physics

Department Chair: Hugh Peebles

230 Archer Building, Phone 880-8241

Professors: Melvin, Pizzo, Rigney

Associate Professor: Peebles

Assistant Professors: Chelf, Goines

Physics is the fundamental science. A major in physics serves as an excellent basis for almost any career. Accordingly, the program of study in physics at Lamar University is offered with many possible options. The individual student may choose a listed option or plan an alternative with the departmental counselor. Lamar physics majors have successfully pursued careers in medicine, life sciences, teaching, geophysics, environmental science, engineering and physics research. Many Lamar physics majors have earned doctorates from outstanding graduate institutions.

The emphasis of the physics program is on quality education at the undergraduate level. Several faculty members are carrying out research involving innovative ways of presenting concepts in physics.

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.

Bachelor of Science - Physics Major

A total of 128 semester hours are required for this degree. In addition to the general university requirements for the bachelor's degree listed in the core curriculum, p. 14 and college requirements listed under College of Arts and Sciences, Minimum Standards for Undergraduate Majors, the degree requirements in physics are Physics I, Physics II, Modern Physics, Analytical Mechanics (Phy 343), Electricity and Magnetism (Phy 338), Quantum Mechanics (Phy 432), and a minimum of ten additional semester hours of physics at the junior-senior level, including one laboratory course; 15 semester hours of mathematics including differential equations and Chemistry 142.

In addition to these minimum requirements most majors will take Phy 130 as a preparation for Phy 247. Phy 133 and 134 are recommended for students with limited computing skills. Students preparing for graduate school in physics should maintain a minimum of 3.2 GPA and take as many of the following courses as possible:

1. Statistical Physics (Phy 339)
2. Electrical Measurements (Phy 346)
3. Introduction to Research (Phy 421, 422)
4. Classical Mechanics (Phy 431)
5. Optics (Phy 448)
6. Partial Differential Equations
7. Vector Analysis
8. Numerical Analysis
9. Advanced Calculus

Placement

Physics majors must obtain sufficient skills in algebra and trigonometry to be placed in Calculus I (Math 148)—see the Mathematics Department's Placement section — or take pre-calculus mathematics (Mth 1335) to make up any deficiency.

Flexible Program of Study

The flexible program of study allows the student to combine a physics major with study in another academic discipline. The 128 hour Recommended Program of Study, outlined below, allows for up to 30 hours in optional courses for a second field of study. Some options will require the completion of more than 128 hours of course work. Only a few of many options are listed below.

List of Some Options With the Flexible Program

Pre-medical: 16-20 additional semester hours of biology, 8-16 additional semester hours of chemistry, including Chm. 341-342. Suggested electives: psychology and sociology.

Life-Science: 16 additional semester hours of biology, 8-12 semester hours of geology, 8-12 additional semester hours of chemistry. Electives unrestricted.

Oceanography: 8-12 additional semester hours of biology, eight additional semester hours of chemistry, 16 semester hours of geology. Suggested electives: electronics, fluid mechanics.

Teaching: 18 semester hours of education, completion of 24 semester hours for second teaching field. Suggested electives: psychology and sociology.

Chemistry: 16-24 additional hours of chemistry. 8-12 additional semester hours of biology. Electives unrestricted.

Liberal Arts: 24-26 semester hours from English, history, political science, sociology or philosophy. Electives unrestricted.

Environmental Science: 16-20 additional semester hours of chemistry, 8-12 additional semester hours of biology, three semester hours of civil engineering. Suggested electives: psychology and sociology.

Engineering: 12 semester hours of engineering (Egr), and 12-24 semester hours of advanced engineering. Suggested electives: economics and sociology.

Geology: 20 semester hours of geology, three-to-nine semester hours of electronics. Electives unrestricted.

Recommended Program of Study

First Year	
Phy 130, 247	7
Mth 148, 149	8
Chem 141, 142	8
Eng Comp	6
Phil 130	3
PE	2
	<hr/> 34

Second Year	
Phy 248, 345	8
Mth 241, Differential Equations	7
Option Courses and/or Electives	3
Eng Lit*	6
Fine Art*	3
Hlth 137	3
PE	2
	<hr/> 32

Third Year	
Phy 343, 338	7
Advanced Phy	3
POLS	6
Social Science*	3
Option Courses and/or Physics	11
	<hr/> 30

Fourth Year	
Phy 432	3
Advanced Physics	4
History	6
Speech*	3
Option Courses and/or Physics	16
	<hr/> 32

Total: 128 or more

*See a Physics Advisor about allowed options.

Physics Courses (Phy)

130	Mathematical Methods in Physics	3:3:0
	Graphical analysis, vector operations, trigonometric operations for elementary physics problems; field and potentials.	
133	Arts and Sciences Computing	3:2:2
	Computing in liberal arts and science disciplines. Data Storage, data manipulation and introduction to programming.	
134	Science and Programming	3:2:2
	Pascal programming and scientific applications. <i>Prerequisite: One year of science.</i>	
137	Descriptive Astronomy	3:3:0
	A survey of facts and an introduction to important astronomical theories. The solar system, stars, nebulae and star systems.	
141	General Physics, Mechanics and Heat	4:3:2
	Designed for majors in the physical or natural sciences. Emphasis is placed upon understanding and application of basic physical laws. <i>Prerequisite: Mth 1337 or high school trigonometry.</i>	
142	General Physics, Sound, Light, Electricity and Magnetism	4:3:2
	A continuation of Phy 141. <i>Prerequisite: Phy 141.</i>	
143	Conceptual Physics	4:3:2
	Designed for non-science/non-engineering majors. The basic interactions in nature, how things move and why, are studied.	
144	Conceptual Physics	4:3:2
	Designed for non-science/non-engineering majors. Topics covered are heat, vibrations and waves, sound, light. Phy 143 is NOT a pre-requisite for Phy 144.	
247	Calculus Based Physics I	4:3:3
	Mechanics, vibrations, heat. <i>Prerequisite: Registration in or credit for Mth 149 and permission of department chair.</i>	
248	Calculus Based Physics II	4:3:3
	Electricity, magnetism, sound waves, optics. <i>Prerequisite: Phy 247 and registration or credit for Mth 241.</i>	
324	Physics Experiments I	2:1:3
	<i>Prerequisite: Registration in or credit for Phy 345.</i>	

- 325 Physics Experiments II** 2:1:3
Prerequisite: Phy 345.
- 336 Applied Nuclear Physics** 3:2:2
 Nuclear structure, decay processes, nuclear forces, scattering; spectroscopy and health effects.
Prerequisite: Phy 248 or 142.
- 338 Electricity and Magnetism** 3:3:0
 Electrostatic fields; potential; capacitance; dielectrics; electromagnetic waves. Maxwell's equations; conduction in gases; thermoelectricity.
Prerequisite: Phy 248 or 141-142 and credit for or registration in Differential Equations.
- 339 Statistical Physics** 3:3:0
 Temperature and thermometry; internal energy, entropy and thermodynamic potentials; introduction to the kinetic theory of gases and the Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac statistics.
Prerequisite: Phy 343, Differential Equations and credit or registration in Phy 345.
- 343 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.
- 345 Waves and Modern Physics** 4:3:3
 Conservation laws; special relativity; quantum effects; atomic structure; X-rays, nuclear and solid state physics.
Prerequisite: Phy 248 or Phy 141-142 and Mth 241.
- 346 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: Phy 248 or 141-142 and Mth 241.
- 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.
- 414, 415 Experimental Projects** 1:0:3
 Building or assembly of experimental apparatus, and its use, under the supervision of a faculty member.
Prerequisite: Six hours of physics numbered above 300.
- 421 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: Phy 345, and (343 or 338).
- 422 Research II** 2:0:6
 Introduction to Physics Research. Completing a project started in Phy 421. Completing the project and writing a report in publication form.
Prerequisite: Phy 421.
- 431(G) Classical Mechanics** 3:3:0
 Variational principles and Lagrange's equations; the kinematics of rigid body motion; the Hamilton equations of motion; small oscillations.
Prerequisite: Differential Equations and Phy 343.
- 432(G) Introductory Quantum Mechanics** 3:3:0
 Basic concepts of quantum mechanics. Schrodinger's equation; wave functions.
Prerequisite: Phy 343 or 431, Phy 345 and Differential equations.
- 448(G) 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: Phy 345 and Differential Equations.

Department of Political Science

Department Chair: William M. Pearson

56 Maes Building, Phone 880-8526

Professors: Drury, Pearson, Stidham, Utter

Associate Professors: Castle, Dubose, Lanier

Assistant Professors: Vanderleeuw

Lecturer: Richardson

The Political Science curriculum encourages students to acquire a broad understanding of the political system and the policymaking process in order to become effective participants in it and prepare for 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 subfields: American government and politics, political philosophy, international relations, comparative politics, and public administration and policy.

The Political Science faculty members have earned doctorates and a wide range of specialization within the broad areas specified above. 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 Pols 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 18 hour minors, the Bachelor of Arts or Science in Political Science afford 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.

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, p. 14. In addition, students must have Speech 131, may not include Dance in the Fine Arts requirement, must take three hours of Math from Mth 1335, 1336, 1337, 134, 1341 or 1345.
- B. Major (27 semester hours, 6 in University core)
Political Science 131
Political Science 231-232 (see University core)
Political Science 3319—Statistics for Social Scientists
Three semester hours from each of the following fields:
American politics (Pols 334, 335, 339, 3301, 4312, 3313, 437)
Political philosophy (Pols 432, 433)
International relations (Pols 332, 337, 435)
Comparative politics (Pols 331, 3317, 4381, 4383)
Public administration and policy (Pols 3316, 430, 434, 439)
- C. Minor (18 semester hours)
An approved minor of 18 semester hours, including at least six advanced hours.
- D. Additional requirements (17 semester hours)
Completion of 232 in a foreign language (normally 12 semester hours)
Two semesters of physical activity, marching band, or military science
Hlth 137
- E. Electives (20 semester hours)
or a number sufficient to total 126 semester hours (with at least 121 exclusive of physical activity and health and wellness courses), including 30 advanced, 24 at Lamar University.

Recommended Program of Study—Bachelor of Arts in Political Science

First Year	Second Year
Pols 131.....3	Eng Lit6
Eng Comp.....6	For Lang6
For Lang6	Hlth 1373
Mathematics, including 1334 and three hours from	Amer His6
Mth 1335, 1336, 1337, 134, 1341 or 1345.....6	Political Science 231-2326
Activity.....2	Political Science 3319.....3
Phl 130.....3	Fine Arts (from Hum 130, Mus 130, Art 135 or The
Speech 131.....3	131)3
29	33

Third Year	
Political Science advanced	9
Social science (Ant 131, Eco 233, Psy 131, or Soc 131)	3
Laboratory science	8
Minor	9
Elective	3

32

Fourth Year	
Political Science advanced	6
Minor	9
Electives	17

32

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, p. 14. In addition, students must have Speech 131, may not include Dance in the Fine Arts requirement, must take three hours of Math from Mth 1335, 1336, 1337, 134, 1341 or 1345.

B. Major (30 semester hours, 6 in the University core)

Political Science 131

Political Science 231-232 (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 334, 335, 339, 3301, 4312, 3313, 437)

Political philosophy (Pols 432, 433)

International relations (Pols 332, 337, 435)

Comparative politics (Pols 331, 3317, 4381, 4383)

Public administration and policy (Pols 3316, 430, 434, 439)

C. Minor (18 semester hours)

An approved minor of 18 semester hours, including at least six advanced hours.

D. Additional requirements (17 semester hours)

Computer Science 1311

Nine semester hours selected from two of the following areas:

Accounting 231-232

Economics 131, 132, 233, or advanced

Mathematics—advanced

Psychology—advanced

Computer Science—advanced

Two semesters of physical activity or military science

Hlth 137

E. Electives (17 semester hours)

or a number sufficient to total 126 semester hours (with at least 121 exclusive of physical activity and health and wellness courses), including 30 advanced, 24 at Lamar University.

Recommended Program of Study - Bachelor of Science in Political Science

First Year		Second Year	
Pols 131.....	3	Eng Lit.....	6
Eng comp.....	6	Amer His.....	6
Elective (from Ant 231, Eco 233, Psy 131 or Soc 131).....	3	Pols 231-232.....	6
Mathematics, including Mth 1334 and three hours from Mth 1335, 1336, 1337, 134, 1341 or 1345.....	6	Pols 3319.....	3
Activity.....	2	CS 1311.....	3
Phi 130.....	3	Approved electives.....	9
Speech 131.....	3		
Fine Arts (from Hum 130, Mus 130, Art 135 or The 131).....	3		
	29		33
Third Year		Fourth Year	
Pols 4319.....	3	Pols advanced.....	6
Pols advanced.....	9	Minor.....	9
Lab science.....	8	Electives.....	17
Hlth 137.....	3		
Minor.....	9		
	32		32

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. 14.
- B. Major (24 semester hours, 6 in University core)
Political Science 131
Political Science 231-232 (see University core)
Three semester hours from each of the following fields
American politics (Pols 334, 335, 339, 3301, 4312, 3313, 437)
Political philosophy (Pols 432, 433)
International relations (Pols 332, 337, 435)
Comparative politics (Pols 331, 3317, 4381, 4383)
Public administration and policy (Pols 3316, 430, 434, 439)
- C. Teaching Field II (24 semester hours)
An approved second teaching field of 24 semester hours.
- D. Pedagogy (21 semester hours)
Ped 3326, 331, 332, 338, 438 and 462
- E. Foundation requirements (18 semester hours)
Completion of 232 in a foreign language (normally 12 semester hours)
Computer Science 1311
Political Science 3319 – Statistics for Social Scientists
- F. Additional requirements (5 semester hours)
Two semesters of physical activity or military science and Hlth 137
- G. The minimum number of semester hours required for the Bachelor of Arts in Political Science with teacher certification is 136 (with at least 131 exclusive of physical activity and health and wellness courses), including 30 advanced, 24 at Lamar University.

Recommended Program of Study—Bachelor of Arts in Political Science with Teacher Certification

First Year	Second Year
Pols 131.....3	Eng Lit.....6
Eng Comp.....6	For Lang.....6
For Lang.....6	Pols 231-232.....6
Mathematics, including 1334 and three hrs from 1335, 1336, 1337, 134, 1341 or 1345.....6	Pols 3319.....3
Fine Arts (from Hum 130, Mus 130, Art 135, or The 131).....3	Amer His.....6
Activity.....2	Second teaching field.....6
Phl 130.....3	CS 1311.....3
Social science (from Ant 131, Eco 233, Psy 131, or Soc 131).....3	
Hlth 137.....3	
35	36
Third Year	Fourth Year
Political Science advanced.....12	Speech 131 or 331.....3
Second teaching field.....6	Pol Sc advanced.....3
PED 3326, 331, 332.....9	Second teaching field.....12
Laboratory science (same science).....8	PED 338, 438, 462.....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, p. 14. In addition, students may not choose Dance for Fine Arts requirement and may choose three hours of Math from Mth 1335, 1336, 1337, 134, 1341 or 1345. Lab Science must include eight hours in the same science, Speech must be 131 or 331.
- B. Major (24 semester hours, 6 in University core)
Political Science 131
Political Science 231-232 (see University core)
Three semester hours from each of the following fields:
American politics (Pols 334, 335, 339, 3301, 4312, 3313, 437)
Political philosophy (Pols 432, 433)
International relations (Pols 332, 337, 435)
Comparative politics (Pols 331, 3317, 4381, 4383)
Public administration and policy (Pols 3316, 430, 434, 439)
- C. Teaching Field II (24 semester hours)
An approved second teaching field of 24 semester hours.
- D. Pedagogy (21 semester hours)
Ped 3326, 331, 332, 338, 438 and 462
- E. Foundation requirements (18 semester hours)
Economics 131-132
Computer Science 1311
Political Science 3319 – Statistics for Social Scientists
Political Science 4319 – Advanced Research Methods
Elective – three semester hours chosen from His 131, His 132, Ant 131, Geo 236 or Geo 238

- F. Additional requirements (5 semester hours)
Two semesters of physical activity or military science and Hlth 137
- G. The minimum number of semester hours required for the Bachelor of Science in Political Science with teacher certification is 136 (with at least 131 exclusive of physical activity and health and wellness courses), including 30 advanced, 24 at Lamar University.

Recommended Program of Study – Bachelor of Science in Political Science with Teacher Certification

First Year	Second Year
Political Science 131.....3	Eng Lit.....6
Eng Comp.....6	Political Science 231-232.....6
Mathematics, inc. 1334 and 3 hrs. from 1335, 1336, 1337, 134, 1341, or 1345.....6	Political Science 3319.....3
Psychology 131.....3	Laboratory science (same science).....8
Economics 131-132.....6	Amer His.....6
Activity.....2	Hlth 137.....3
Philosophy 130.....3	CS 1311.....3
Fine Arts (from Hum 130, Mus 130, Art 135, or The 131).....3	
Elective (from His 131, His 132, Ant 131, Geo 236, or Geo 238).....3	
35	35
Third Year	Fourth Year
Political Science 4319.....3	Political Science advanced.....6
Political Science advanced.....9	Second teaching field.....12
PED 3326, 331, 332.....9	PED 338, 438, 462.....12
Second teaching field.....12	
Speech 131 or 331.....3	
36	30

Political Science Courses (POLS)

231	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.	
	<i>Prerequisite: Sophomore standing.</i>	
231H	Introduction to American Government I Honors	3:3:0
	The national and Texas constitutions; federalism; political socialization and participation; public opinion and interest groups; parties, voting and elections. Designed especially for honors students.	
	<i>Prerequisite: Sophomore standing and departmental approval.</i>	
232	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.	
	<i>Prerequisite: POLS 231.</i>	
232H	Introduction to American Government II Honors	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. Designed especially for honors students.	
	<i>Prerequisite: Sophomore standing and departmental approval.</i>	
	<i>NOTE: POLS 231-232 fulfills the six-hour requirement in Political Science.</i>	
131	Introduction to Political Science	3:3:0
	An introductory survey of political ideas and institutions and a review of the methods for analyzing the political behavior of individuals, groups and nations. Formal research design required.	
321	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.	
	<i>Prerequisite: Approval of department chair.</i>	

- 322 **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 321.
- 323 **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 322.
- 331 **The Politics of Developed Nations** 3:3:0
The political culture, political structure and decision-making process of developed nation-states with major emphasis on Western European systems.
- 332 **Studies in 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.
- 334 **American Political Parties and Pressure 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.
- 335 **The American Presidency** 3:3:0
The role of the office in political and diplomatic, social and economic terms, as well as in the policy-making aspects.
- 337 **The 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.
- 339 **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 **The Legislative Process** 3:3:0
The structure, functioning and political control of legislative bodies.
- 3313 **The 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 test of significance.
- 430 **Organization Theory and Behavior** 3:3:0
Structural and management aspects of public administration, theory and practice; policy formation processes and techniques.
- 432 **Political Thought I** 3:3:0
Western political thought from the Greeks to the 19th Century.
- 433 **Political Thought II** 3:3:0
Political philosophy from Marx to the present with emphasis on contemporary theorists.
- 434 **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.
- 435 **International Law and Institutions** 3:3:0
Political, legal and institutional foundations of the modern international system, including the United Nations. Emphasis include peaceful settlement of international disputes and the developing global system.
- 437 **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.

- 439 Special Topics in Public Administration** 3:3:0
Fiscal administration, public personnel administration, comparative development administration, administrative regulation and related areas. 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.
- 4312 American State Politics** 3:3:0
American state political systems from a comparative basis with emphasis on Texas.
- 4319 Advanced Research Methods** 3:3:0
Special problems, topics, cases, models and theories in political science research.
- 4381 The Politics and Government of the Communist Nations** 3:3:0
Origin, development, structures, functions and behavior of Communist political systems with emphasis on the Soviet Union and China.
- 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: Barrington, Esser, Marriott, Walker

Phone 880-8285

Associate Professor: Lindoerfer

Assistant Professors: Fitzpatrick, Holtz, Matthei

Adjunct Assistant Professors: Duncan, Trahan

Adjunct Instructor: Pate

Admission to Department of Psychology Programs

Students wishing to major in psychology must present a minimum total SAT/ACT score of 700/18. Students changing their major to psychology must have a minimum total SAT/ACT of 700/18, a cumulative GPA of 2.0 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. 14. Plus Biology 141-142, eight semester hours, 12 semester hours and completion of 232 course in foreign language and Health 137.
2. **Major:**
Psychology 131 Introduction to Psychology
Psychology 241 Statistical Methods in Psychology
Psychology 342 Methods in Psychology
Psychology Additional 15 semester hours, a minimum of nine semester hours must be on the advanced level
3. **Minor:**
A 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.

Recommended Program of Study

First Year	Second Year
Bio 141, 1428	Eng Lit6
Eng Comp6	For Lang6
For Lang6	American History6
Mth6	Psy 241 Intro to Statistical Methods4
Psy 131 Intro to Psy3	Spc 1313
PE 2-4	Fine Arts3
Phl 1303	Electives8
	Hlth3
	<hr/> 31
<hr/> 34-36	
Third Year	Fourth Year
Pols 231, 2326	Psy, Advanced9
Psy 342 Methods in Psych4	Minor9
Psy Advanced6	Electives14
Minor9	
Electives6	
<hr/> 31	<hr/> 32

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. 14. Plus, eight semester hours of Biology 141-142 and Health 137.
2. Major:
Psychology 131 Introduction to Psychology
Psychology 241 Statistical Methods in Psychology
Psychology 342 Methods in Psychology
Psychology 443 Experimental Psychology
Psychology Additional 18 semester hours, to include nine semester hours selected from Psychology 331, 332, 333, 334, and 432 and nine semester hours selected from Psychology 336, 431, 436, and 438.
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.

Recommended Program of Study

First Year	
Bio 141-142 Gen Bio.....	8
Eng Comp.....	6
Mth.....	6
Science.....	8
Psy 131 Intro to Psych.....	3
PE.....	2-4
Phl 130.....	3

36-38

Third Year	
POLS 231, 232.....	6
Psy 342 Methods in Psychology.....	4
Psy, Advanced.....	6
Minor.....	6
Electives.....	6

28

Total 128 hours

Second Year	
Spc 131.....	3
Eng Lit.....	6
CS.....	3
Psychology.....	3
Psy 241 Intro to Statistical Methods.....	4
Minor.....	6
Fine Arts.....	3
Hlth 137.....	3
Electives.....	3

34

Fourth Year	
American History.....	6
Psy 443 Experimental Psy.....	4
Psy, Advanced.....	9
Minor.....	6
Electives.....	5

30

Bachelor of Science in Psychology

Bachelor of Science in Biology

First Year	
Bio 141, 142 General Biology.....	8
Chm 141, 142 General.....	8
Eng Comp.....	6
Mth 1335 Precalculus Mathematics.....	3
Psy 131 Introduction to Psychology.....	3
Psy 241 Introduction to Statistical Methods.....	4
PE Activity.....	2
Phl 130.....	3

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Summer	
POLS 231, 232.....	6
Fine Arts.....	3
Health & Wellness.....	3

12

Third Year	
Am His.....	6
Psy 141, 142 General.....	8
Bio 347 Genetics.....	4
Bio 345 Botany.....	4
Psy 443 Experimental Psy.....	4
***Psy Advanced.....	9

35

Second Year	
Chm 341, 342 Organic.....	8
Bio 240 Comparative Anatomy or 444 Vertebrate Natural History.....	4
Bio 245 Microbiology.....	4
Psy 342 Methods.....	4
Eng Lit.....	6
Mth 236.....	3
Computer Science.....	3
***Psy Advanced.....	3

35

Fourth Year	
Bio 346 Invertebrate Zoology.....	4
Bio 417 Classical Biological Literature.....	2
**Bio Electives.....	12
***Psy Advanced.....	6
Electives.....	13

37

*Both degrees must be awarded simultaneously.

**Biology electives chosen from Bio 342, 344, 446, 447.

**Advanced Psychology elective: Group I (choose any three): Psy 331, 332, 333, 334, 432; Group II (choose any three): Psy 336, 431, 436, 436.

Psychology Courses (Psy)

131 Introduction to Psychology

3:3:0

An introductory survey of the major areas of psychology such as learning, personality, social, testing, developmental and physiological. Emphasis is on psychology's the scientific study of behavior and includes both human and animal behavior.

- 234 Child Psychology** 3:3:0
A study of the growth and development of behavior patterns in children.
- 236 Adult Development and Aging** 3:3:0
A survey of major issues in adult development and aging including biological, cognitive, personality, social and disease factors.
Prerequisite: Psy 131 or 234.
- 241 Introduction to Statistical Methods** 4:3:2
Statistical concepts and techniques used in behavioral science research. Topics include graphs, measures of position, central tendency and dispersion, correlation and regression, probability, test of significance and introduction to non-parametric techniques.
- 331 Systems and History of Psychology** 3:3:0
Historical development of psychology. Emphasis on the evolution of major systems of psychology.
Prerequisite: Psy 131.
- 332 Psychology of Personality** 3:3:0
A study of several of the major theories of personality organization and adjustment processes.
Prerequisite: Psy 131.
- 333 Psychology of Social Interaction** 3:3:0
Investigation of psychological basis of interpersonal behavior. Emphasis is on the study of individual experience and behavior in relation to the social environment, and how individual behavior both affects and is affected by social interaction.
Prerequisite: Psy 131.
- 334 Industrial Psychology** 3:3:0
Introduction to Psychological processes and techniques as they apply in industrial settings. Emphasis on selecting, training and evaluating workers. Emphasis also on organizational influences on behavior.
Prerequisite: Psy 131
- 336 Psychological Tests and Measurements** 3:3:0
Theory and use of instruments for measurements of intelligence, interests, aptitude and attitudes.
Prerequisite: Psy 131, 241 or equivalent or permission of instructor.
- 342 Methods in Psychology** 4:3:2
An introduction to the methods of research employed in the scientific study of behavior. Topics include nature and philosophy of science, experimental design, data analysis and report writing. Several experiments are designed, conducted and reported by students.
Prerequisite: Psy 131 and 241.
- 410, 420, 430 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.
- 4201, 4301 Special Topics in Psychology** 2-3:A:0
Topics in developmental, physiological, social, differential, experimental, quantitative, cognitive or clinical psychology. Includes library and/or laboratory work and conferences with a staff 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.
- 431 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: Psy 131.
- 432 Abnormal Psychology** 3:3:0
A study of abnormal behavior. Special emphasis on the symptomatology, etiology and therapeutic approaches.
Prerequisite: Psy 131.
- 436 Learning** 3:3:0
Theories and research concerning learning processes, with a consideration of practical implications.
Prerequisite: Psy 131.
- 438 Physiological Psychology** 3:3:0
Survey of the physiological bases of behavior with emphasis on the mechanisms in the central nervous system.
Prerequisite: Psy 131.

- 439 **Contemporary Problems in Psychology** 3:3:0
A critical and comprehensive examination of current problems in selected areas of psychology. Topics will vary from semester to semester.
Prerequisite: Nine hours in psychology or permission of instructor. May be repeated for credit when topics vary.
- 443 **Experimental Psychology** 4:3:2
Techniques to demonstrate and investigate concepts in psychology. Includes planning and executing an original research project.
Prerequisite: Psy 342.

Department of Nursing

Department Chair: Eileen Tiedt **233B Ward Health Sciences Building-880-8817**

Professor: Tiedt

Associate Professors: Esperat, Trussell

Assistant Professors: Boyd, Carroll, Green, Hall, H. Moss, Price-Nealy,
Slaydon, J. Smith, Twiname, Wilsker

Instructors: Bayliss, Bumpus, Mason, P. Moss, Roberts, Wilmore

Clinical Instructors: Galeazzi, Gregory, Westbrook

Nursing education began at Lamar University in 1951, when the Vocational Nursing Program was approved in the College of Technical Arts. Eventually, the way was paved for the development of Registered Nurse preparation. The Associate of Science in Nursing program accepted students in January 1974, and the Bachelor of Science in Nursing Program admitted the first class in January 1976.

Nursing programs differ in their focus on education and clinical practice. It is pertinent then, to state the department's view of nursing education and nursing service.

Basic to the philosophy of the department is the belief that all people have the right to optimal health care. Nursing shares with other health sciences the goal of promoting health for individuals, families, and communities, as well as the responsibility for the care, comfort and coordination of services to clients experiencing acute, chronic and terminal illness. To accomplish this goal, nurses function in collaboration with other members of the health team, in a supportive role to the medical plan, and as independent practitioners of nursing. Nurses also function as patient/client advocates. Based on scientific knowledge, caring attitudes and technical skills, nurses focus on promotion of health, prevention of illness and disease. Nursing is concerned with expansion and application of new knowledge and methods of care, and with improvement of health care delivery systems.

To implement this philosophy, the curricula focus on the behavior of people in various levels of wellness. The programs provide understanding of the systems which influence living and care giving, and people's psychology and physiology under normal and pathological conditions. Attaining clinical competence is stressed.

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 facilities to which they are assigned. Specific policies may be obtained from program directors.

Admission to 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 program (obtained from the Advising Center, Room 257, Ward Health Sciences Building).

Completed Application for Admission to Nursing programs, with required transcripts, test scores and related documents must be received by March 1 prior to the Fall semester admission is being sought (see program statements to be considered for admission). Applicants are urged to follow application instructions carefully to ensure processing by admission committees.

Applications for Admission are evaluated on the following basis:

1. Admission to the University (Admissions section of this bulletin.)
2. Transcripts and grades in high school and 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. Students who have met the admission criteria and standards by the end of the spring semester of the year they are applying for admission to the nursing major will receive more favorable consideration.
6. 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 week-end hours.

Clinical agencies may require additional health examinations, dress codes or conformity with other policies. Students will be informed in advance of such requirements.

Transfer credits from other institutions will be evaluated on an individual basis.

Bachelor of Science - Nursing

Program Director: Eileen Tiedt

The purpose of the baccalaureate nursing program is to prepare professional nurse practitioners to meet community and state needs for nurses who can assume leadership in the delivery of health care.

The program is designed to prepare the graduate for beginning roles in assessing, planning, implementing and evaluating nursing and health care needs of individuals, families and groups in a variety of settings. This program also lays the foundation necessary for graduate study in clinical specialties, supervision, administration, education and/or research.

Completion of the program leads to a Bachelor of Science in Nursing degree. Recipients of the degree are eligible to make application to write the examination given by the Board of Nurse Examiners 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.

Application for admission to the program is made during the Spring semester preceding the Sophomore year. Students are encouraged to develop and maintain early counseling contact with the department.

Admission to the nursing major follows criteria of the College of Arts and Sciences. Admission is determined by the Admissions Committee and is based on evaluation of the student's application and available space. To be considered for admission the student must:

- 1) Have a minimum grade of "C" with an overall grade point average (GPA) of 2.50 in the Life sciences (Biology and Chemistry courses) and a minimum grade of "C" in all other prerequisites.
- 2) Have completed all prerequisite courses.
- 3) Have met the T.A.S.P. requirements, if applicable.
- 4) Submit a complete application and attendant materials to the Admissions Committee by March 1st of the Freshman year.
- 5) See also Admission to Department of Nursing Program criteria on page 130.

Credit may be earned by examination in selected nursing courses. Criteria for eligibility to take competency/equivalency examinations, fees, policies, procedures and other details may be obtained from the program director, Ward Health Sciences Building.

Students may be required to validate their knowledge of social, psychological or biological science courses which were taken more than 10 years prior to the date of application to the nursing program.

For progression in the Program a minimum grade of "C" must be maintained in all 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.

Student must meet the general education requirements of the University described under the Academic Policies and Procedures section of this catalog.

Nursing courses may be repeated once only by special permission, after demonstration of prerequisite knowledge and skills (see program director and/or *Student Handbook* for specific policies and procedures).

Bachelor of Science - Nursing Major

Recommended Program of Study

NOTE: This curriculum plan is in effect for all students entering as beginning freshman, fall, 1990.

@Prerequisites

Fall Semester	
Bio 143 - Human Anat & Physiology	4
Chm 143 - Intro Inorg.....	4
Psy 234 - Child Psychology	3
HEc 138 - Intro to Nutrition	3
Eng Comp	3
PE.....	2

19

Spring Semester	
Bio 144 - Human Anat & Physiology	4
Chm 144 - Intro Organic	4
Psy 236 - Adult Devel & Aging.....	3
Phl 130 - Phil of Knowledge.....	3
Eng Comp.....	3
PE.....	2

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First Year**Fall Semester**

Nur 221 - Basic Nursing Prac.....	2
Bio 245 - Intro Microbiology.....	4
Math 1334 - College Algebra.....	3
+ Nur 253 - Hlt & Well Assessment.....	5
Nur 233 - Pathophysiology.....	3
#Speech.....	0
	<hr/>
	17

Spring Semester

Nur 284 - Nursing Adult Client I.....	8
Nur 232 - Pharm Nursing Prac.....	3
Literature.....	3
Psy 241 - Intro Stat Methods.....	4
	<hr/>
	18

Second Year**Fall Semester**

Nur 328 - Ecology of Nursing.....	2
Nur 353 - Nurs Adult Client II.....	5
Nur 355 - Nurs Adult Client III.....	5
Amer His 231.....	3
Fine Arts.....	3
	<hr/>
	18

Spring Semester

Nur 331 - Community.....	3
Nur 382 - Nurs The Family I.....	8
POLS 231.....	3
Lit OR For Lang.....	3
	<hr/>
	17

Third Year**Fall Semester**

Nur 481 - Nurs The Family II.....	8
Nur 430 - Research Proc in Nursing.....	3
*Nur - Nursing Elective.....	3
Amer His 232.....	3
	<hr/>
	17

Spring Semester

Nur 491 - Comp Nursing.....	9
Nur 433 - Seminar.....	3
POLS 232.....	3
¢Elective - Non-major.....	3
	<hr/>
	18

@ Prerequisite courses must be taken prior to admission to the nursing program.

¢ Restricted to designated social science courses.

+ Meets HLTH 137 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.

Bachelor's Degree Nursing Courses (Nur)

221	(Concepts Basic to Nursing Practice) Health and Wellness Assessment	2:2:0
	Selected concepts which serve as a framework for nursing practice. Beginning integration of content from the natural, physical, and social sciences applied to health care.	
	Prerequisite: Admission to the BSN Program or departmental consent.	
232	Pharmacologic Basis of Nursing Practice	3:3:0
	Pharmacology, principles of therapeutics and clinical applications.	
	Prerequisite: Departmental consent.	
233	Basic Pathophysiology	3:3:0
	Basic pathophysiology with emphasis on disease processes. Focus on implications for nursing practice.	
	Prerequisite: Admission to the BSN program or department consent.	
253	Concepts and Practice of Clinical Nursing	5:3:6
	Beginning application of the nursing process and physical assessment skills. Emphasis on health assessment, maintenance and history taking.	
	Prerequisite: Admission to the BSN Program.	
284	Nursing Care of the Adult Client I	8:4:12
	Application of the nursing process and physical assessment skills, emphasizing planning and intervention skills with adult clients experience interference in biological health.	
	Prerequisite: Nur 221, 233, 253, admission to BSN Program.	
328	Ecology of Nursing	2:2:0
	Nursing from historical perspective to aid understanding of contemporary practice. Emphasis on roles of the nurse. Introduction to legal and ethical issues and to the scientific approach to nursing. Focus on the inter-relatedness of nursing education and practice within the health care system.	
	Prerequisite: Nur 221, 233, 253, 284 or Departmental consent.	

- 331 The Community as a Client** 3:3:0
Expands previously presented concepts to include the delivery of health care to large and small groups. Emphasis is given to the concepts of the community as a client within the context of primary, secondary and tertiary health care.
Prerequisite: Departmental consent.
- 353 Nursing Care of the Adult Client II** 5:2:9
Continuation of Nur 284, with emphasis on the adult client experiencing interference with biological health.
Prerequisites: Nur 253, 284.
- 355 Nursing Care of the Adult Client III** 5:3:6
Application of nursing process, emphasizing planning and intervention skills with adult clients experiencing interferences in psychological health.
Prerequisites: Nur 253, 284.
- 382 Nursing Care of the Family I** 8:3:15
Application of nursing process, emphasizing health maintenance of clients and families in community settings.
Prerequisite: Nur 253, 284, 353, 355.
- 4301 Special Topics Nursing** 3:3:0
Elective introducing topics related to health care. Designed to expand the student's professional role in various health care settings and areas of specialization.
Prerequisite: Departmental Consent.
- 4305 Directed Study in Nursing** 3:3:0
Provides the senior nursing student with an opportunity for individualized study of selected concepts and/or problems in professional nursing. The course may repeated as the content varies.
Prerequisite: Departmental consent.
- 430 Research Process in Nursing** 3:3:0
Philosophy and values of research, the major methods of conducting investigations and the application of research findings to nursing and health care.
Prerequisite: Departmental consent.
- 433 Senior Seminar** 3:3:0
Provides the senior nursing student the opportunity to study and discuss complex nursing and health care issues.
Prerequisite: Department consent.
- 481 Nursing Care of the Family II** 8:3:15
Nursing process emphasizing health restoration and rehabilitation of clients and families in the childbearing and childrearing cycles.
Prerequisite: Nur 382.
- 491 Comprehensive Nursing Practice** 9:3:18
Nursing process to comprehensive nursing care. Leadership and management of nursing service delivery systems.
Prerequisite: Nur 481, 430.

Associate Degree Nursing

Program Director: Doris J. Price-Nealy

The purpose of the Associate Degree Nursing program is to prepare a practitioner for beginning roles in assessing, planning, implementing and evaluating, with assistance, the nursing and health care needs of clients in the hospital setting.

The Associate Degree Nursing program may be completed in two calendar years. Students receive classroom instruction and supervised clinical experience in the nursing care of patients at local hospitals and community agencies.

Completion of the program leads to an Associate of Applied Science in nursing degree. Recipients of the degree are eligible to make application to write the examination given by the Board of Nursing Examiners to become a Registered Nurse (RN).

Admission to the Associate Degree Nursing major follows criteria of the College of Arts and Sciences. Admission is determined by the Admissions Committee and is based on evaluation of the student's application and available space. To be considered for admission the student must:

1. Have a minimum grade of "C" in all prerequisite courses,
2. Have completed all prerequisite courses,
3. Have met the TASP requirements, if applicable,
4. Submit a complete application and attendant materials to the Admissions Committee by March 1 of the freshman year,
5. See also Admission to Department of Nursing Program criteria on page 130.

Students may be required to validate their knowledge of social, psychological or biological science courses which were taken more than 10 years prior to the date of application to the nursing program.

For progression in the Program a minimum grade of "C" must be maintained in English composition, nursing and science courses, 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.

General Requirements: See Core Curriculum, p. 14.

Nursing courses may be repeated once only by special permission, after demonstration of prerequisite knowledge and skills (see program director and/or *Student Handbook* for specific policies and procedures).

Recommended Program of Study

Preadmission Courses

*Bio 143 Anat & Phys.....	4	*Bio 144 Anat & Phys.....	4
*Eng Comp.....	3	*Psy 131 Psychology.....	3
	<u>7</u>		<u>7</u>

First Year

Fall Semester		Spring Semester	
Nur 191 Mental & Phys Hlth.....	9	Nur 192 Nurs Adlt I.....	9
TM 134 or Mth 1334.....	3	#Bio 245 Microbiology.....	4
HEc 138 Nutrition.....	3		
	<u>15</u>		<u>13</u>

Second Year

Summer I		Summer II	
Eng Comp.....	3	#Psy 234 Child Psy.....	3
Fall Semester		Spring Semester	
Nur 261 Maternity.....	6	Nur 292 Nurs Adlt II.....	9
Nur 262 Nurs Child.....	6		
	<u>12</u>		<u>12</u>

All non-equivalent transfer courses must be approved by the Department Chair.

*Preadmission courses must be taken prior to admission to Nursing 191. Applications must be submitted by March 1, preceding the August that admission to Nursing 191 is desired.

#Must be successfully completed to progress to Nursing 261 and Nursing 262.

Associate Degree Nursing Courses (NUR)

101	Mental and Physical Health I	9:5:12
	Introduction to nursing concepts which form the framework for the nursing process. Includes physiology, nutrition, pharmacology, mental health, growth and development. Emphasis on technical, observational and communication skills needed for effective nursing care.	
	Prerequisite: Admission to ADN Program.	

- | | | |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 192 | Nursing Care of the Adult Client I | 9:5:12 |
| | Continues integration of concepts basic to the nursing process. Emphasis on application of nursing process to care of hospitalized adults with disturbances in physical or mental health. | |
| | <i>Prerequisite: NUR 191.</i> | |
| 261 | Maternity Nursing | 6:4:6 |
| | Application of concepts basic to the nursing process to the hospitalized maternity client. Emphasis on physiology, growth and development, emotional and environmental influences on childbearing. | |
| | <i>Prerequisite: NUR 192.</i> | |
| 262 | Nursing Care of the Child Client | 6:4:6 |
| | Application of concepts basic to the nursing process to the hospitalized child. | |
| | <i>Prerequisite: NUR 261.</i> | |
| 292 | Nursing Care of the Adult Client II | 9:4:15 |
| | Application of all concepts included in the nursing process to hospitalized adults with complex disturbances in physical and mental health. Introduction to management in hospital nursing service. | |
| | <i>Prerequisite: NUR 262.</i> | |

Department of Sociology, Social Work and Criminal Justice

Department Chair: Kevin B. Smith

55 Maes Building, Phone 880-8538

Professors: Altemose, Blanchard, Frazier, Ma, Seelbach, Smith

Associate Professors: Birdwell-Pheasant, Monroe, Sims, Stone, Wright

Assistant Professors: Love, 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 Bachelor of Science in Sociology, Bachelor of Arts in Sociology, Bachelor of Social Work, Bachelor of Science in Criminal Justice and Bachelor of Arts in Criminal Justice. Each bachelor's degree offered by the department requires at least 120 semester hours, excluding Health 137 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).
2. English 137 is not an approved elective.
3. 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.
4. The departmental academic probation and suspension policy is identical to that of the College of Arts and Sciences and is available from the office of the Dean or department chair.

5. Students who are majoring in this department and who are on academic probation or returning from academic suspension may not enroll in more than 12 semester hours (13-15 hours if a laboratory course and P.E. are taken) in any semester.
6. All departmental majors (full-time and part-time) must have satisfied both the University's and the College of Arts and Sciences' requirements for English composition and mathematics before registering for 300 and 400 level courses offered by the department.

Pre-Law

As prospective candidates for admission to a school of law, students may pursue one of the the bachelor's degrees offered by the department. The degree plan should include the following courses as electives or a minor.

Criminal Justice 1303 – Fundamentals of Criminal Law
 Criminal Justice 1305 – The Courts and Criminal Procedure
 Criminal Justice 234 – Legal Aspects of Law Enforcement
 Political Science 436 – American Constitutional Law and Development
 Political Science 437 – American Constitutional Law and Development
 Business Law 331 – Business Law
 Business Law 332 – Labor Law
 Business Law 434 – Advanced Legal Principles

Sociology

Program Director: Kevin B. Smith

55 Maes Building, Phone 880-8538

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, gerontology, 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:

Meet the University's core curriculum requirements for a bachelor's degree which are described earlier in this bulletin and satisfy all departmental requirements.

- B. Major – 31 semester hours to include:
 Sociology 131 – Introduction to Sociology
 Sociology 438 – Research Methods
 Sociology 439 – Social Theory
 Sociology 411 – 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.

Recommended Program of Study

First Year

First Semester		Second Semester	
Eng 131 or 136.....	3	Eng 132, 134, or 135.....	3
Mth 1334.....	3	Math 234 or Psy 241.....	3-4
Lab Science.....	4	Lab Science.....	4
Phl 130.....	3	Soc.....	3
Soc 131.....	3	PE.....	2
PE.....	2		
	<u>18</u>		<u>15-16</u>

Second Year

First Semester		Second Semester	
Eng Lit.....	3	Eng Lit or For Lang.....	3
Amer His.....	3	Amer His.....	3
Ant.....	3	Fine Arts.....	3
CS.....	3	Swk.....	3
Soc.....	3	Soc.....	3
Hlth 137.....	3		
	<u>18</u>		<u>15</u>

Third Year

First Semester		Second Semester	
Pols 231.....	3	Pols 232.....	3
Spch 131.....	3	CJ.....	3
Soc.....	3	Soc (Adv.).....	6
Minor/Electives.....	6	Minor/Electives.....	3
	<u>15</u>		<u>15</u>

Fourth Year

First Semester		Second Semester	
Soc 438.....	3	Soc 439.....	3
Soc 411.....	1	Soc (Adv.).....	3
Minor/Electives.....	12	Minor/Electives.....	9
	<u>16</u>		<u>15</u>

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 232 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.

Recommended Program of Study

First Year

First Semester		Second Semester	
Eng 131 or 136.....	3	Eng 132, 134, or 135.....	3
Mth 1334.....	3	Math 234 or Psy 241.....	3-4
Foreign Lang 131.....	3	Lab Science.....	4
Phl 130.....	3	Foreign Lang 132.....	3
Soc 131.....	3	Soc.....	3
PE.....	2		
	<u>17</u>		<u>16-17</u>

Second Year

First Semester		Second Semester	
Eng Lit.....	3	Eng Lit.....	3
Amer His.....	3	Amer His.....	3
Foreign Lang 231.....	3	Foreign Lang 232.....	3
Lab Science.....	4	Fine Arts.....	3
Soc.....	3	Soc.....	3
PE.....	2	Hlth 137.....	3
	<u>18</u>		<u>18</u>

Third Year

First Semester		Second Semester	
Pols 231.....	3	Pols 232.....	3
Swk.....	3	Ant.....	3
CJ.....	3	CS.....	3
Soc (Adv).....	3	Soc (Adv).....	6
Minor/Elective.....	3		
	<u>15</u>		<u>15</u>

Fourth Year

First Semester		Second Semester	
Spch 131.....	3	Soc 439.....	3
Soc 438.....	3	Soc (Adv).....	3
Soc 411.....	1	Minor/Electives.....	9
Minor/Electives.....	6		
	<u>13</u>		<u>15</u>

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 science. It involves more than a desire to "do good"; it involves the synthesis of knowing, doing, feeling and understanding. Lamar University's 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. The research interests of Lamar's social work faculty are in the areas of family violence, sexual abuse, counseling techniques, social work education, and social policy.

Bachelor of Social Work

The Bachelor of Social Work, which prepares students for entry-level social work practice, 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 on p. 14 of this catalog and satisfy all departmental requirements. The lab science course must be biology.
- B. Major – 39 semester hours to include:
Social Work 131, 231, 330, 331, 332, 333, 334, 335, 432, 438, 4321, 4324, plus three hours of electives in Social Work.
- C. Departmental Requirements – 21 semester hours
Sociology 131, 132, 336
Psychology 131, and 234 or 235
Criminal Justice – Three hours
Anthropology – Three hours
- D. Minor: An approved minor of 18 semester hours, six of which must be advanced. Students normally minor in either psychology or sociology unless they select one of the optional concentrations described below:
 1. Concentration in Corrections – 18 hours
The Corrections concentration prepares the prospective social worker for practice in community corrections, probation and parole departments, prisons, and jails. For this concentration, the following courses are required: Criminal Justice 1302, 1303 or 1305, 235, 236, 335, and 432.
 2. Concentration in Family and Children's Services – 18 hours
The Family and Children's Services concentration prepares the prospective social worker for specialized practice involving families and children. For this concentration, the following courses are required: Home Economics 137, 233, 239, 330 or 435, 334, and 339.
- E. Electives – Sufficient approved electives to satisfy University minimum hour requirements for graduation.

Recommended Program of Study

First Year

First Semester		Second Semester	
Eng 131 or 136.....	3	Eng 132, 134 or 135.....	3
Mth.....	3	Mth 1334 or higher.....	3
Bio 1400.....	4	Bio 1401.....	4
Phl 130.....	3	Soc 131.....	3
Swk 131.....	3	Swk 231.....	3
PE.....	1-2	PE.....	1-2
	<u>17-18</u>		<u>17-18</u>

Second Year

First Semester		Second Semester	
Eng Lit.....	3	Eng Lit or Lang.....	3
Amer His.....	3	Amer His.....	3
Soc 132.....	3	Psy 234 or 235.....	3
Psy 131.....	3	Swk 330, 331.....	6
Spc 131.....	3	Ant.....	3
Health and Wellness 137.....	3		
	<u>18</u>		<u>18</u>

Third Year

First Semester		Second Semester	
Pols 231 Amer Gov I.....	3	Pols 232 American Government II.....	3
Soc 336.....	3	Swk Elective.....	3
Swk 332, 333, 438.....	9	Swk 334, 335.....	6
Minor/Electives.....	3	Minor/Electives.....	3
	<u>18</u>	CJ.....	3
			<u>18</u>

Fourth Year

First Semester		Second Semester	
Fine Arts.....	3	Swk 4324.....	3
Swk 432, 4321.....	6	Minor/Electives.....	9
Minor/Electives.....	6		
	<u>15</u>		<u>12</u>

Criminal Justice

Program Director: Victor H. Sims

58 Maes Building, Phone 880-8538

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 on local, national and international levels. Emphasis is placed on preparing the graduate for immediate entry and placement in professional level employment. Each Criminal Justice major will choose one of the concentrations listed below. The Bachelor of Arts is also available.

Concentration Coordinators:

General CJ Studies.....	V. H. Sims
Corrections.....	R. L. Frazier
Policing/Law Enforcement.....	V. H. Sims
Pre-law.....	J. J. Love
Social Justice & Peacemaking.....	J. R. Altemose

Bachelors of Science-Criminal Justice Major

The Bachelor of Science in Criminal Justice 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 on p. 14 in this catalog and satisfy all departmental requirements.
- B. Criminal Justice Core – 21 semester hours
12 semester hours required: CJ 1301, 1302, 1303, and 1305.
Nine semester hours to be selected from: CJ 231, 232, 234, 235, and 236.
- C. Criminal Justice Advanced Electives – 12 semester hours
- D. Departmental Requirements – 9 semester hours
Social Work 231 or 131
Criminal Justice 434 – Six hours or six hours of advanced CJ or six hours of approved courses.
- E. Minor or Approved Electives – an approved minor of 18 semester hours, six of which must be advanced.
- F. Electives – Sufficient approved electives to satisfy University minimum hour requirements for graduation.

Recommended Program of Study

First Year

First Semester	Second Semester
Eng 131 or 136.....3	Eng 132, 134, or 135.....3
Mth 1334 or higher.....3	Mth or Data Analysis.....3
Lab Science.....4	Lab Science.....4
Phl 130.....3	Swk 231 or 131.....3
CJ 1302.....3	CJ 1301.....3
PE Activity.....2	PE Activity.....2
18	18

Second Year

First Semester	Second Semester
Eng Lit.....3	Eng Lit or For. Lang.....3
Amer His.....3	Amer His.....3
Soc Science.....3	CJ Soph Electives.....6
Minor/Elective.....3	CJ 1305.....3
CJ 1303.....3	Minor/Elective.....3
Hlth 137.....3	
18	18

Third Year

First Semester	Second Semester
Pols 231 Am Gov I.....3	Pols 232 Am Gov II.....3
Spc.....3	CJ Advanced.....3
CJ Soph Elective.....3	Advanced Minor/Elective.....6
Minor/Electives.....6	Research Methods.....3
15	15

Fourth Year

First Semester		Second Semester	
Elective	3	CJ 434	3
CJ Advanced	6	Elective	3
Advanced Elective	3	CJ Advanced	3
CJ 434	3	Fine Arts	3
	<u>15</u>		<u>12</u>

Bachelor of Arts - Criminal Justice Major

The Bachelor of Arts in Criminal Justice will be awarded upon the completion of the following requirements:

A. General Requirements:

Meet the University's core curriculum requirements for a Bachelor of Arts degree which are described earlier in this bulletin and satisfy all departmental requirements

B. Departmental Requirements:

Criminal Justice Core and Criminal Justice Advanced Electives are same as for Bachelor of Science; departmental requirements are same except CJ 434 hours are not required.

Recommended Program of Study**First Year**

First Semester		Second Semester	
Eng 131 or 136	3	Eng 132, 134, or 135	3
Mth 1334 or Higher	3	Mth or Data Analysis	3
Lab Science	4	Lab Science	4
Phil 130	3	Swk 231 or 131	3
CJ 1302	3	CJ 1301	3
PE	2	PE	2
	<u>18</u>		<u>18</u>

Second Year

First Semester		Second Semester	
Eng Lit	3	Eng Lit	3
Amer Hist	3	Amer His	3
Soc Science	3	CJ Soph Electives	6
Language 131	3	CJ 1305	3
CJ 1303	3	Language 132	3
Hlth 137	3		
	<u>18</u>		<u>18</u>

Third Year

First Semester		Second Semester	
Pols 231	3	Pols 232	3
Spc	3	Research/Methods	3
CJ Soph Elective	3	CJ Advanced	3
Minor	3	Minor	3
Language 231	3	Language 232	3
	<u>15</u>		<u>15</u>

Fourth Year

First Semester		Second Semester	
Elective	3	Fine Arts	3
CJ Advanced	6	CJ Advanced	3
Minor	6	Minor (Advanced)	6
	<u>15</u>		<u>12</u>

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 millenia 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 131 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 (Soc)

- | | | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 131 | Introduction to Sociology
Sociology as a field of knowledge. Basic terms, concepts, theories of sociology applied to an explanation of human behavior, personality, groups and society. | 3:3:0 |
| 132 | Social Problems
Attributes of society and of persons which are subjects to disapproval; the causes, extent and consequences of problems; programs and prospects for their resolution. | 3:3:0 |
| 132H | Social Problems—Honors
Attributes of society and of persons which are subject to disapproval; the causes, extent and consequences of problems; programs and prospects for their resolution. Designed especially for honors students.
<i>Prerequisite: Departmental approval.</i> | 3:3:0 |
| 231 | Deviant Behavior
The study of the major areas of social maladjustment from the standpoint of the process underlying social and individual disorganizations, such as alcoholism, illegitimacy, suicide, drug addiction and other personal deviations. | 3:3:0 |
| 232 | American Society
Description and analysis of the structural and functional characteristics of American society and culture. | 3:3:0 |
| 233 | Marriage and the Family
Characteristics of and problems within courtship, marriage and family in American society. | 3:3:0 |
| 234 | Social Gerontology
A general survey of the social phenomenon of aging in American society, attention given to the interrelationship among biological, individual, group and social variables. | 3:3:0 |
| 235 | Class, Status, and Power
Examination of social inequality and differentiation with emphasis on social classes, status groups, and social mobility. | 3:3:0 |
| 331 | Sociology of Gender
Analysis of the origin and social development of gender roles. Examination of changing roles for males and females and their impact on interpersonal relationships and societal institutions. | 3:3:0 |
| 332 | Social Psychology
Social and cultural influences upon individual behavior and personality; interpersonal and intergroup relations and collective behavior. | 3:3:0 |
| 333 | Urban Sociology
Social and ecological processes in the urbanization movement; characteristics of urban society and culture. | 3:3:0 |
| 335 | The Family
Structural and functional characteristics of the family as a basic institution. | 3:3:0 |
| 336 | Race and Ethnic Relations
Racial and ethnic minority groups within the society; causes, distinctions and changes in the relationship between minority and dominant groups. | 3:3:0 |
| 337 | Sociology of Sport
Examination of the social aspects of sport and how sport is a microcosm of American society. Major issues to be studied include racial and sexual discrimination, violence, and sport as big business. | 0:0:0 |

- 338 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.
- 339 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.
- 3311 Medical Sociology** 3:3:0
A study of medicine as a social institution with emphasis on social organization and interaction patterns.
- 411 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
- 430 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.
- 431 Population Problems** 3:3:0
The growth and composition of population with emphasis on social, economic and political problems.
- 432 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.
- 4331 Seminar in Gerontology** 3:3:0
Pre-professional seminar examining current theories, research, issues and career opportunities in the field of aging.
- 434 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.
- 435 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.
- 438 Research Methods** 3:3:0
The logic, design, techniques and problems involved in social scientific research.
- 439 Social Theory** 3:3:0
Major sociological theorists and theories.

Social Work Courses (Swk)

- 131 Introduction to Social Work** 3:3:0
History, philosophy, field of practice and services of the social work profession. A field experience (volunteer component) is required.
- 231 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.
- 330 Human Behavior in the Social Environment I**
Life cycle approach to the study of growth and development as impacted upon by the social environment.
Corequisite: SWK 331 for majors.
- 331 Social Work Practice I** 3:3:0
Theories, concepts, principles and modalities generic to social work practice. Emphasis on basic helping skills; engagement, relationship building, interviewing, communication, etc.
Corequisite: Swk 330 for majors.
- 332 Human Behavior in the Social Environment II** 3:3:0
Continuation of Swk 330.
Prerequisite: Swk 330.
Corequisite: Swk 333 for majors.
- 333 Social Work Practice II** 3:3:0
Emphasis on the problem-solving approach and intervention skills with individuals, families and groups.
Prerequisite: Swk 331.

- 334 Social Policy and Administration** 3:3:0
Social policies as related to selected social problems at all governmental levels. Emphasis on policy analysis.
- 335 Social Work Practice III**
Macro social work practice. Skills of assessment and intervention with organizations and communities. Emphasis on prevention and service delivery.
Prerequisite: Swk 333.
- 420, 430 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.
- 432 Seminar** 3:3:0
Current topics in social work practice. May be repeated for credit when topics vary.
- 438 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: Swk 333 for majors.
- 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 Swk 131, 231, 330, 331, 332, 333, 334, 335, 438.
- 4324 Field Practicum II**
Continuation of Swk 4321.
Prerequisite: Swk 4321 and consent of field placement coordinator.

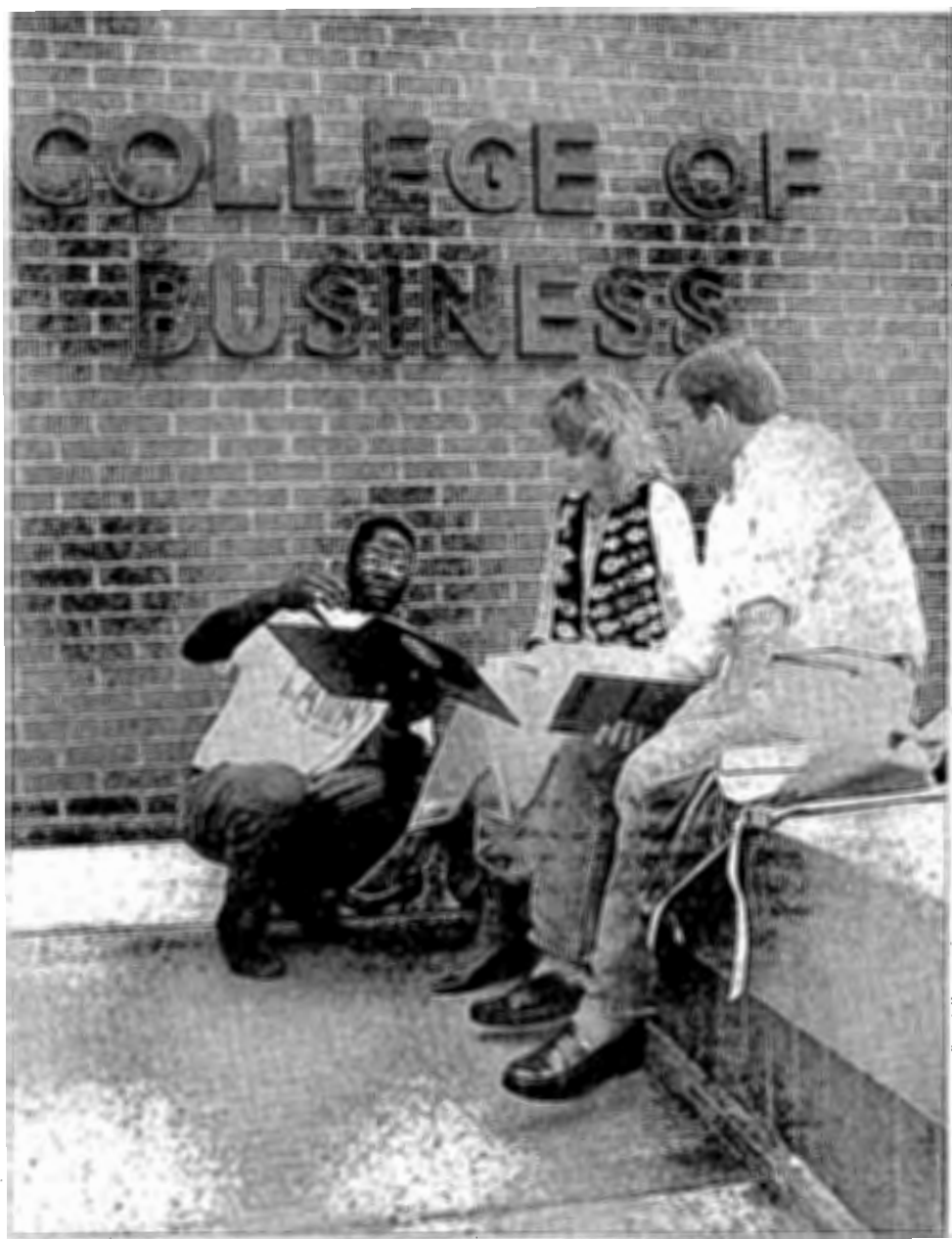
Criminal Justice Courses (CJ)

- 1301 Crime in America** 3:3:0
American crime problems in historical perspective; social and public policy factors affecting crime; impact and crime trends; social characteristics of specific crimes; prevention of crime.
- 1302 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.
- 1303 Fundamentals of Criminal Law** 3:3:0
Philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility.
- 1305 Courts and Criminal Procedure** 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.
- 231 Police Systems and Practices** 3:3:0
The police profession; organization of police systems; the police role; police discretion; ethics; police-community interaction; current and future issues.
- 232 Criminal Investigation** 3:3:0
Collection and preservation of evidence; sources of information; interviewing; uses of forensic sciences; case and trial preparation.
- 234 Legal Aspects of Law Enforcement** 3:3:0
Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability.
- 235 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.
- 236 Community Resources in Corrections** 3:3:0
Role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.
- 237 Justice Planning and Research** 3:3:0
Introduces students to the various methods of studying problems in the areas of social and criminal justice. Includes study of use of computers, evaluation techniques such as cost-benefit-analysis, observation and traditional scientific methods of research. Systems analysis and flow charting techniques such as PERT are covered.

- 238 Introduction to Police Management** 3:3:0
Basic principles of management and organization applied to police agencies. Practical exercises in budgeting, leadership, discipline and related police problems.
- 332 Counseling** 3:3:0
Basic counseling techniques for dealing with troubled individuals. Communication skills; crisis intervention.
- 333 Counseling Practicum** 3:3:0
Supervised counseling practice in a criminal justice setting.
Pre or co-requisite: CJ 332.
- 335 Police/Juvenile Relations** 3:3:0
An exploration of the different approaches to policing young people. Consideration of states' laws and landmark cases influencing policing the young.
- 336 Narcotics and Vice** 3:3:0
Narcotics, alcohol abuse, sex and gambling offenses and offenders; legal, philosophical and sociological aspects of the role of the criminal justice system in controlling these offenses; methods of diversion.
- 337 Organized Crime** 3:3:0
Organized crime in America, past and present; areas and extent of influence; agencies and groups involved in prevention and control.
- 431 Social Justice** 3:3:0
Theories of Justice: relationship of justice to freedom and democracy: injustices in social class, gender, and race relationships.
- 432 Seminar in Correctional Programs** 3:3:0
Overview of programs in institutional and noninstitutional agencies; examination of such programs based upon various correctional theories.
- 433 Police Problems** 3:3:0
Advanced treatment of major contemporary police problems from the viewpoint of both the administrative and line operations officer; integration of established scientific knowledge with practical police experience.
- 434 Applications** 3:A:0
Internship, special topics or directed research.
Prerequisite: Consent of the instructor.
- 438 Qualitative Research** 3:3:0
Non-mathematical research methods: observation, interviews, participant observation, and library research.
Prerequisite: CS 130 or equivalent.
- 4310 Ethical Issues in Criminal Justice** 3:3:0
An examination of selected ethical issues and problems confronting criminal justice professionals.
- 4312 Contemporary Issues in Criminal Justice** 3:3:0
Current topics in criminal justice. May be repeated for credit when the topic is varied.
- 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.
- 4322 Criminal Justice Planning** 3:3:0
Examination of planning including terminology, techniques, and practical exercises. Introduction to PERT, MBO, goal setting and master plan design.
Prerequisite: Junior standing.
- 4332 Criminal Investigation of J.F.K. Assassination** 3:3:0
The Kennedy assassination is studied in detail. Major assassination theories are examined in view of the physical evidence and findings of the Warren Commission. The House Select Committee on Assassinations, independent researchers and literature review. Students are required to participate in overnight field trip to attend lectures and study the crime scene.
Prerequisite: Junior standing.

Anthropology Courses (Ant)

- 131 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.
- 132 Peoples of the World** 3:3:0
A survey of world cultures from the perspective of cultural ecology. The course will cover hunter-gatherer bands, horticultural tribes, chiefdoms, primitive states, and peasant societies, drawing examples from all the major culture areas of the world.
- 231 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.
- 232 Ethnic Heritage** 3:3:0
An examination of the cultural heritage of the major ethnic groups of contemporary American society—Afro-American, Hispanic-American, Euro-American, Asian-American or Native American. (Only one group will be covered each time the course is taught; contact department for current offering.)
- 233 Physical Anthropology** 3:3:0
An exploration of the physical nature of human beings using evidence from primate studies, fossils, and contemporary populations. Basic concepts of genetics, evolution and adaptation are introduced.
- 235 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.
- 331 Family and Society**
Examines the organization and function of the family in societies around the world. Includes analysis of kinship systems such as clans and lineages; inheritance systems; marriage customs and the family as work group and provider of "welfare".
- 334 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.



College of Business students examine information regarding class scheduling while a member of the Placement Office offers advice.

College of Business

Departments: Accounting; Administrative Services; Economics and Finance; Management and Marketing

Beheruz N. Sethna, Dean

**232 Galloway Business Bldg.
Phone 880-8603**

Robert A. Swerdlow, Associate Dean

**232 Galloway Business Bldg.
Phone 880-8604**

**Joel L. Allen, Director of J.D. Landes Center
for Economic Education**

**204 Galloway Business Bldg.
Phone 880-8657**

**Eleanor Stevens, Director
of Advising Center**

**120 Galloway Business Bldg.
Phone 880-8607**

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. 14) plus

- I. Non-professional education courses:
Eco 131, 132 Principles of Economics
Mth 1341 Elements of Analysis for Business Applications*
Approved non-professional education electives (see each degree program for hours)
- II. Pre-professional courses:
AS/ECO 130 Business Environment and Public Policy*
BAC 133 - Intro to Microcomputers or CS 1311 - Microcomputers I
(3 hour course to be approved by chair of student's major department)*
- III. Professional core courses:.*
Acc 231, 232 Principles of Accounting
BAC 331, 332 Business Analysis I & II
BAC 436 Management Information Systems
BLW 331 Business Law
Eco 334 Macro Economics or
Eco 339 Economics of the Firm
Fin 331 Principles of Finance
Mgt 331 Prin of Org Beh & Mgt
Mgt 332 Production Management
Mgt 437 Administrative Policy
Mkt 331 Principles of Marketing
OAS 335 Business Communications
- IV. Professional Specialization (18-27 semester hours):

**Slightly different program of courses required by the Department of Accounting and Department of Administrative Services for students planning to secure teacher certification and for general business computer science and information systems management majors as well as by the Department of Economics for economics majors. See Department of Accounting, Department of Administrative Services and Department of Economics in this bulletin.*

Accounting Major (27 semester hours)

Acc 331, 332, 333 Inter Acc

Acc 334 Cost Acc

Acc 338 Tax Acc

Acc 430 Auditing

Acc 431 Adv Acc

Acc 435 Acc Systems

Acc Elective

Economics Major (24 semester hours)

Eco 333 Inter Theory

Eco 332 Money & Banking

Eco electives 9 sem. hours

Eco 334 Macro

Eco 339 Economics of the Firm

Eco 4315 Gov & Business

Finance Major (21 semester hours)

Fin 332 Financial Analysis

Fin 431 Investments

Fin 432 Financial Markets

Fin 433 Commercial Markets

Professional Track Elective

Professional Track Elective

Professional Track Elective

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

Acc 334 Cost Accounting or

Acc 338 Taxation Accounting

Fin 333 Insurance or

Fin 332 Financial Analysis

Mgt 333 Personnel Management

Mkt 431 Marketing Management

Mkt 438 Small Business Enterprise

OAS 431 Office Management

Advertising Communication**Concentration II**

Art 237 Graphic Design I

Art 3351 Desktop Design

Art 4343 Computers in Art I

Art 4353 Computers in Art II

Communications Course

Mkt 333 Marketing Promotion

Industrial Engineering**Concentration III**

IE 3301 Survey of Industrial Engineering

IE 333 Engineering Economy

IE 339 Materials Science and Manufacturing Processes

IE 4301 Quality Control Applications

IE 438 Methods Engineering

IE 4316 Industrial and Product Safety

Computer Science**Concentration IV**

CS 1411 Principles of Computer Science I

CS 1413 Principles of Computer Science II

CS 2313 Digital Computer Systems

CS 2411 File Processing with COBOL

CS 335 Representation of Information

CS or CIS (6 hours advanced courses)

Retail Merchandising**Concentration V**

HEc 231 Textiles

HEc 331 Clothing Selection

HEc 432 Fashion History

HEc 434 Fashion Production and Distribution

HEc 437 Fashion Buying and Merchandising

Techniques

Mkt 332 Principles of Retailing

Information Systems Management**Concentration VI**

See Administrative Services Department for changes in courses

CS 1413 Principles of Computer Science II

Acc 334 Cost Accounting or Mgt 431 Budgetary Control

Bac 330 Micro Software for Business

Bac 437 Management Database Appl

Oas 331 Records Management

Oas 336 Office Information Systems

Pre-law Recommended Courses

Blw 332 Employment Law

Blw 434 Advanced Legal Principles

Blw 438 Petroleum Law

Oas 336 Office Information Systems or

Oas 431 Office Management

Pols 437 Am Constitution Law or

Pols 3313 Judicial Process

CJ 4312 Contemporary Issues (Legal Research),

Eng 4326 Expository Writing, or

His 339 Historical Research

Management Major (21 semester hours)

Acc 334 Cost Accounting

Mkt 431 Marketing Management

Mgt 333 Personnel Management

Mgt 431 Budgetary Control

Mgt 432 Organ Behav

Mgt 434 Productivity Management

Mgt 438 Mgt of Computer Sys or

Mkt 438 Small Business Enterprise

Marketing Major (18 semester hours)

Mkt 332 Principles of Retailing

Mkt 333 Mkt Promotion or

Mkt 432 Buyer Behavior

Mkt 431 Marketing Management

Mkt 435 Quant Tech in Mkt or

Mkt 433 International Mkt

Mkt 436 Marketing Research

Mkt 437 Adv Marketing Problems

Office Administration Major — Plan I

(21 semester hours)

OAS 232 Intermediate Shorthand

OAS 233 Advanced Typewriting

OAS 331 Records Management

OAS 336 Office Information Systems

OAS 337 Electronic Word Processing Systems

OAS 338 Secretarial Office Procedures

OAS 431 Office Management

Office Administration Major — Plan II

(21 semester hours)

Bac 330 Microcomputer Applications

OAS 232 Intermediate Shorthand

OAS 233 Advanced Typewriting

OAS 336 Office Information Systems

OAS 338 Secretarial Office Procedures

OAS 431 Office Management

OAS 438 Content Analysis for Business

Personnel Administration

(Accreditation) (21 semester hours)

Mgt 333 Personnel Management

Mgt 432 Organ Behav and Adm

Psy 335 Motivation

Psy 336 Psy Tests and Measure

BLW 332 Employment Law or

Eco 336 Survey of Labor Economics

Mgt 433 Personnel Accred Review

OAS 431 Office Management

- E. Approved electives to complete a total of 129 semester hours.
- II. A minimum grade point average of 2.00 in all business and economics subjects.
- III. A minimum grade point average of 2.00 on all courses attempted.
- IV. Application for the degree must be made through the Office of the Dean of Business.

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 300 or 400 level courses.

Requirements for the *Master of Business Administration* degree are given in detail in the Graduate Bulletin.

Admission to the College of Business

- 1. All newly entering Freshmen who meet the University's general entrance requirements will be admitted to the College of Business.
- 2. All newly entering freshmen will be admitted to a "Pre-Business" classification only. No major will be declared until the following conditions are met:
 - a. completion of 45 semester hours with a 2.0 or higher grade point average
 - b. included in the 45 hours will be
 - 1) Eco 131
 - 2) Eco 132
 - 3) AS/Eco/Mgt 130 (not required of students who plan to pursue a major in Accounting, Economics or in Office Administration, Plan II - Teacher Certification)
 - 4) Acc 231
 - 5) English Composition (six hours)
 - 6) Mth 134 or higher (Please check your degree program.)
- 3. Transfer students with a grade point deficiency and/or those with fewer than 45 hours of credit as specified above will be classified as "Pre-Business."
- 4. After exiting the "Pre-Business" classification and declaring a major leading to a bachelor's degree in business, a student who incurs a grade point deficiency should make up that deficiency within the following semester.

Minor Program in Business

Non-business students may minor in business but without any specialized field of study. Such students should complete AS/ECO 130, ECO 131, 132, Acc 231, 232, MGT 331, MKT 331, and FIN 331. 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.

Department of Accounting

Department Chair: R. W. Jones 235 Galloway Business Building, Phone 880-8610
Emeritus Professor: Bennett
Professors: Jones, Veuleman
Associate Professors: Barlow, Harris, Hudson
Assistant Professor: Novak
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 curriculum presented for prebusiness program and ACC 232 with a grade point average of 2.5 (a grade of "B" is required in both ACC 231 and ACC 232). Transfer students must meet the equivalent of the above requirements.
- 3. Completion of the Accounting Program Admission Test (APAT). This test is to be taken after ACC 232 and before enrollment in ACC 331 (in special circumstances, the student may enroll in ACC 331 on condition that he/she take the test at the next available test date).

Requirements for Graduation

In addition to the College of Business degree requirements, the accounting major must have a GPA of 2.0 for all accounting courses attempted. Students pursuing this degree program must take all professional courses at Lamar University.

Bachelor of Business Administration – Accounting Major

Recommended Program of Study

Freshman Year

First Semester		Second Semester	
Phl 130	3	BAC 133 - Intro to Microcomputers or	
Eng Comp	3	CS 1311 - Microcomputers I	3
Lab Sc	4	Eng 132, 134 or 135 Comp	3
Mth 236 or 1341	3	Lab Sc	4
Eco 131	3	Fine Arts	3
PE	2	Eco 132	3
		PE	2

Sophomore Year

First Semester		Second Semester	
Soph Lit.....	3	Lit or Foreign Lang.....	3
Am His.....	3	Am His.....	3
PolS 231 Am Govt I.....	3	PolS 232.....	3
Acc 231 Prin I.....	3	Acc 232 Prin II.....	3
Hlth 137.....	3	Spc 331.....	3
	15	OAS 335 Bus Comm.....	3
			18

Junior Year

First Semester		Second Semester	
Acc 338 Tax I.....	3	Eco 334 or 339.....	3
Mkt 331 Prin of Mkt.....	3	Fin 331 Prin of Fin.....	3
Mgt 331 Prin of Org Beh & Mgt.....	3	Mgt 332 Production.....	3
BAC 331 Bus Analysis I.....	3	BAC 332 Bus Analysis II.....	3
Acc 334 Cost.....	3	BAC 436 Mgt Info Sys.....	3
Acc 331 Intermediate I.....	3	Acc 332 Intermediate II.....	3
	18		18

Senior Year

First Semester		Second Semester	
Acc 333 Spec Acc Topics.....	3	Acc 430 Auditing.....	3
Acc 435 Systems.....	3	Acc 431 Advanced.....	3
Blw 331 Business Law.....	3	Blw 434 Adv Legal Prin.....	3
Mgt 437 Adm Policy.....	3	Acc Elec (300/400 Level).....	3
	12		12

Accounting Courses (Acc)

- 231 Principles of Accounting I** 3:3:0
 Concepts and procedures of financial accounting. First, the information gathering, analysis, recording and reporting functions inherent in the complete accounting cycle. Second, the balance sheet areas of asset measurement and liability. Third, accounting for partnerships.
Offered Fall, Spring.
- 232 Principles of Accounting II** 3:3:0
 A continuation of Acc 231 with additional financial accounting and concepts, procedures and uses of managerial accounting. First, accounting for corporate owner's equity and specialized accounting topics. Second, cost and managerial accounting with basic cost systems, budgeting and special analyses for management.
Prerequisite: Acc 231 with a minimum grade of "C". Offered Fall, Spring.
- 331 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: Acc 231 with a minimum grade of "B" and Acc 232 with a minimum grade of "B" and completion of the Accounting Program Admission Test (APAT). Offered Fall.
- 332 Intermediate Accounting II** 3:3:0
 Continuation of Acc 331 with emphasis on long-term debt, short-term liabilities, leases, pensions, owner's equity, revenue recognition, income tax accounting and earnings per share.
Prerequisite: Acc 331 with a minimum grade of "C". Offered Spring.
- 333 Specialized Accounting Topics** 3:3:0
 Completion of intermediate accounting and other financial accounting topics. Emphasis on statement of changes in financial position; inflation accounting; accounting for not-for-profit organizations; international accounting topics; and introduction to SEC practices.
Prerequisite: Acc 331 with minimum grade of "C". Offered Fall, Spring.
- 334 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: Acc 232 with minimum grade of "C". Offered Fall, Spring.

- 338 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: Acc 232 with minimum grade of "C". Offered Fall, Spring.
- 339 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: Acc 338 with minimum grade of "C". Offered Spring.
- 430 Auditing** 3:3:0
Principles and procedures applied by public accountants and auditors in the examination of financial statements and accounts; verification of data; audit working papers; reports; types of audits; procedures.
Prerequisites: Acc 332 and Acc 435 with minimum grade of "C". Offered Spring.
- 431 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: Acc 332, Oas 335, and Bac 332 with minimum grade of "C" in each course. Offered Fall.
- 433 Contemporary Accounting Theory** 3:3:0
A comprehensive study of the contemporary approaches to the development of accounting theory. Includes a study of historical development as well as recent contributions of present day scholars. Significant oral and written reports are required.
Prerequisite: Acc 332; Senior standing; 3.0 GPA and consent of the instructor. Offered Spring.
- 434 Advanced Cost Accounting** 3:3:0
In-depth study of process cost accounting; spoilage; overhead allocation; departmentalization; quantitative methods for planning and control.
Prerequisite: Acc 334 with minimum grade of "C". Offered Fall.
- 435 Accounting Systems** 3:3:0
Analysis of theoretical models illustrating structure, design and installation of specific accounting systems with emphasis on computer applications.
Prerequisites: Acc 332 with minimum grade of "C" and Bac 436 as either a prerequisite or concurrent enrollment. Offered Fall.

Department of Administrative Services

Department Chair: Nancy S. Darsey

237 Galloway Business Building

Emeritus Professors: Hall, Kirksey

Professors: Darsey, Sethna, Spradley

Associate Professors: Barnes, Cavaliere, Drapeau, Pearson, M. Swerdlow

Assistant Professors: Gaddis, Harris, Mulvaney, Stevens

Lecturer: Steffek

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 six fields of concentration available to a student are outside the College of Business. The five fields of concentration include: Business Concentration, Advertising Communication Concentration, Industrial Engineering Concentration, Computer Science Concentration, Marketing Information Systems and Retail Merchandising

Concentration. Pending Coordinating Board approval, the department anticipates replacing the Management Information Systems concentration with a major in Management Information Systems. Consult with the department chair for details.

The general business pre-law program prepares students for admission to and completion of law school, as well as the successful management of a law practice. Advanced coursework in composition, communication, office practice, and the law complements the student's general business education. After completion of the program, students may apply directly to the law schools of their choice.

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 OAS 232 and OAS 233. Six of the 18 hours must be upper level (300 or 400) 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.

Recommended Programs of Study

Bachelor of Business Administration

General Business Major-Business Concentration-Plan I

First Year	Second Year
AS/Eco 130 Business Environment and Public Policy	Acc 231, 232 Principles.....6
BAC 133 - Intro to Microcomputers or CS 1311 - Microcomputers I.....3	Eng Lit
Eco 131, 132 Principles	Pols 231, 232.....6
Eng Comp	Am His.....6
Mth 1341 Elements of Analysis for Business Applications	Fine Arts.....3
Lab Sc.....8	Spc 331 Business and Professional Speech
Phl 130 Phil of Knowledge.....3	Hlth 137
PE Activity.....4	

Third Year

BAC 331, 332 Business Analysis	6
BLW 331 Business Law	3
Fin 331 Prin of Finance	3
Mgt 331 Prin of Org Beh & Mgt	3
Mgt 332 Production Management	3
Mkt 331 Prin of Marketing	3
OAS 335 Business Comm	3
Electives (non-business)	3
Electives (College of Business 300 or 400 level)	6

33

Fourth Year

Acc 334 Cost Accounting or Acc 338 Tax Acc	3
BAC 436 Mgt Information Systems	3
Eco 334 Macro Eco or Eco 339 Eco of the Firm	3
Fin 333 Insurance or Fin 332 Fin Analysis	3
Mgt 333 Personnel Management	3
Mgt 437 Administrative Policy	3
Mkt 431 Marketing Management	3
Mkt 438 Small Business Ent	3
OAS 431 Office Management	3
Electives (College of Business 300 or 400 Level)	3

30

Advertising Communication Concentration-Plan II**First Year**

AS/Eco 130 Business Environment and Public Policy	3
BAC 133 - Intro to Microcomputers or CS 1311 - Microcomputers I	3
Eco 131, 132 Principles	6
Eng Comp	6
Mth 1341 Elements of Analysis for Business Applications	3
Lab Sc	8
Phl 130 Phil of Knowledge	3
PE Activity	4

36

Second Year

Acc 231, 232 Principles	6
Eng Lit	6
POLS 231, 232	6
Am His	6
Fine Arts	3
Com 131 Intro to Media Arts	3
Hlth 137	3

33

Third Year

BAC 331, 332 Business Analysis	6
BLW 331 Business Law	3
Art 237 Visual Design	3
Art 3351 Desktop Design	3
Fin 331 Prin of Finance	3
Mgt 331 Prin of Org Beh & Mgt	3
Mgt 332 Production Management	3
Mkt 331 Prin of Marketing	3
OAS 335 Bus Comm	3
Electives (College of Business 300 or 400 Level)	3

33

Fourth Year

Art 3343 Computers in Art I	3
Art 3353 Computers in Art II	3
BAC 436 Management Information Systems	3
Communications Course (approved)	3
Spc 331 Business and Professional Speech	3
Eco 334 Macro Economics or Eco 339 Economics of the Firm	3
Mgt 437 Administrative Policy	3
Mkt 333 Marketing Promotion	3
Elective (non-business)	3
Electives (College of Business 300 or 400 Level)	6

33

Industrial Engineering Concentration-Plan III**First Year**

AS/Eco 130 Business Environment and Public Policy	3
BAC 133 - Intro to Microcomputers or CS 1311 - Microcomputers I	3
Eco 131, 132 Principles	6
Eng Comp	6
Mth 1341 Elements of Analysis for Business Applications	3
Lab Sc	8
Phl 130 Phil of Knowledge	3
PE	4

36

Second Year

Acc 231, 232 Principles	6
Eng Lit	6
POLS 231, 232	6
American History	6
Fine Arts	3
Spc 331 Business and Professional Speech	3
Hlth 137	3

33

Third Year

BAC 331, 332 Business Analysis	6
BLW 331 Bus Law.....	3
Fin 331 Prin of Finance.....	3
IE 3301 Survey of Industrial Engineering.....	3
Mgt 331 Prin of Org Beh & Mgt	3
Mkt 331 Prin of Marketing.....	3
OAS 335 Business Communications.....	3
Elective (non-business).....	3
Electives (College of Business 300 or 400 Level).....	6

33

Fourth Year

BAC 436 Management Information Systems	3
Eco 334 Macro Eco or Eco 339 Eco of the Firm.....	3
IE 333 Engineering Economy.....	3
IE 339 Materials Science and Manufacturing Process	3
IE 4301 Quality Control.....	3
IE 438 Methods Engineering.....	3
IE 4316 Industrial and Product Safety.....	3
Mgt 332 Production Management	3
Mgt 437 Administrative Policy.....	3
Electives (College of Business 300 or 400 Level).....	3

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Computer Science Concentration-Plan IV**First Year**

AS/Eco 130 Bus Environ and Public Policy	3
CS 1411 Prin of Computer Science I.....	4
Eco 131, 132 Principles	6
Eng Comp	6
Mth 1345 Discrete Math	3
Lab Sc.....	8
Phl 130 Phil of Knowledge	3
PE	4

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Second Year

Acc 231, 232 Principles.....	6
CS 1413 Principles of Computer Science II.....	4
Eng Lit	6
POLS 231, 232	6
Am His.....	6
Spc 331 Business and Professional Speech.....	3
Hlth 137 Health and Wellness	3

34

Third Year

BAC 331, 332 Bus Analysis.....	6
BLW 331 Bus Law.....	3
CS 2313 Digital Comp Systems.....	3
CS 2411 File Processing in COBOL	4
CIS 335 Semantics of Info.....	3
Fin 331 Prin of Finance.....	3
Mgt 331 Prin of Org Beh & Mgt	3
Mkt 331 Prin of Marketing.....	3
OAS 335 Bus Comm.....	3
Fine Arts.....	3

31

Fourth Year

BAC 436 Mgt Info Systems.....	3
CS (Advanced Courses)	6
Eco 334 Macro Ec or Eco 339 Eco of the Firm	3
Mgt 332 Prod Management.....	3
Mgt 437 Adm Policy	3
BAC 330 Micro Software for Business.....	3
Electives (College of Business 300 or 400 Level).....	6

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Retail Merchandising Concentration-Plan V**First Year**

AS/Eco 130 Business Environment and Public Policy	3
BAC 133 - Intro to Microcomputers or CS 1311 - Microcomputers I.....	3
Eco 131, 132 Principles	6
Eng Comp	6
Mth 1341 Elements of Analysis for Business Applications	3
Lab Sc.....	8
Phl 130 Phil of Knowledge	3
PE Activity.....	4

36

Second Year

Acc 231, 232 Principles.....	6
Eng Lit	6
POLS 231, 232 American Government I, II.....	6
Am His.....	6
Fine Arts.....	3
Spc 331 Bus and Prof Speaking	3
Hlth 137	3

33

Third Year

BAC 331, 322 Bus Analysis.....6

BLW 331 Bus Law.....3

Fin 331 Prin of Finance.....3

HEc 231 Textiles.....3

HEc 331 Clothing Selection.....3

Mgt 331 Prin of Org Beh & Mgt.....3

Mkt 331 Prin of Marketing.....3

OAS 335 Bus Comm.....3

Electives (College of Business
300 or 400 Level).....6

30

Fourth Year

BAC 436 Mgt Info Systems.....3

Eco 334 Macro Eco
or Eco 339 Eco of the Firm3

HEc 432 Fash His.....3

HEc 434 Fashion Prod and Dist3

HEc 4337 Fash Buying and
Merchandising Tech.....3

Mgt 332 Prod Management.....3

Mgt 437 Admin Pol.....3

Mkt 332 Retailing.....3

Elective (non-business)3

Electives (College of Business
300 or 400 Level).....3

30

Information Systems Management Concentration-Plan VI

First Year

AS/Eco 130 Business Environment and
Public Policy.....3

CS 1411 Principles of Computer Science I.....4

Eco 131, 132 Principles6

Eng Comp.....6

Mth 1345 Discrete Mathematics.....3

Laboratory Science.....8

Phl 130 Philosophy of Knowledge3

PE Activity.....4

37

Second Year

Acc 231, 232 Principles.....6

CS 1413 Principles of Computer Science II.....4

Eng Literature.....6

POLS 231, 232 American Government I, II6

His Sophomore American History.....6

Fine Arts.....3

Spc 331 Business and Professional Speech.....3

34

Third Year

BAC 330 Micro Software for Business.....3

BAC 331, 32 Business Analysis6

BLW 331 Business Law3

Fin 331 Principles of Finance3

Mgt 331 Prin of Org Beh & Mgt3

Mkt 331 Principles of Marketing.....3

OAS 331 Records Management.....3

OAS 335 Business Communications.....3

OAS 336 Office Information Systems3

40

Fourth Year

Acc 334 Cost Accounting
or Mgt 431 Budgetary Control3

BAC 436 Mgt Info Systems.....3

BAC 437 Management Database Appl3

Eco 334 Macro Economics
or Eco 339 Economics of the Firm3

Mgt 332 Production Management3

Mgt 437 Administrative Policy.....3

Hlth 137 Health and Wellness3

Elective (non-business)4

Electives (College of Business 300 or 400 level).....6

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See faculty advisors about changes in information systems management concentration program.

Pre-Law
Recommended Courses

First Year

AS/Eco 130 Bus Environ
and Public Policy3

BAC 133 - Intro to Microcomputers or
CS 1311 - Microcomputers I.....3

Eco 131, 132 Principles6

Eng Comp.....6

Mth 1341 Elements of Analysis
for Business Applications3

Lab Sci.....8

Phl 130 Phil of Knowledge3

PE.....4

36

Second Year

Acc 231, 232 Prin6

Eng Lit6

POLS 231, 2326

Am His.....6

Fine Arts.....3

Spc 331 Business & Professional Speech.....3

Hlth 137 Health and Wellness3

33

Third Year

BAC 331, 332 Bus Analysis.....	6
BLW 331 Bus Law.....	3
Fin 331 Prin of Finance.....	3
Mgt 331 Prin of Org Beh & Mgt.....	3
Mgt 332 Prod Management.....	3
Mkt 331 Prin of Marketing.....	3
OAS 335 Bus Comm.....	3
*Electives (non-business).....	6
*Electives (College of Business 300 or 400 Level).....	3

33

Fourth Year

BAC 436 Mgt Info Systems.....	3
BLW 332 Employment Law.....	3
BLW 434 Advanced Legal Principles.....	3
BLW 438 Property and Mineral Law.....	3
Eco 334 Macro Eco or Eco 339 Eco of the Firm.....	3
OAS 336 Office Info Systems or OAS 431 Office Management.....	3
POLS 437 Am Constitutional Law or POLS 3313 Judicial Process.....	3
CJ 4312 Contemporary Issues (Legal Research), Eng 4326 Expository Writing, or His 339 Historical Research.....	3
Mgt 437 Admin Policy.....	3
*Electives (College of Business 300 or 400 Level).....	3

30

*Check with pre-law advisor for suggested electives.

Bachelor of Business Administration Office Administration Major

Plan I This program is designed for those students seeking professional careers in secretarial and office administration.

First Year

AS/Eco 130 Bus Environment and Public Policy.....	3
Eco 131, 132 Prin.....	6
Eng Comp.....	6
Lab Sc.....	8
Mth 1341 Elements of Analysis for Bus Applications.....	3
OAS 233 Advanced Typewriting.....	3
Phl 130 Phil of Knowledge.....	3
PE.....	4

36

Second Year

Acc 231, 232 Prin.....	6
BAC 133 - Intro to Microcomputers or CS 1311 - Microcomputers I.....	3
Eng Lit.....	6
POLS 231, 232.....	6
Am His.....	6
Spc 331 Bus and Pro Speech.....	3
Hlth 137.....	3

33

Third Year

BAC 331, 332 Bus Analysis.....	6
BLW 331 Bus Law.....	3
Fin 331 Prin of Finance.....	3
Mgt 331 Prin of Org Beh & Mgt.....	3
Mgt 332 Prod Management.....	3
Mkt 331 Prin of Marketing.....	3
OAS 232 Inter Shorthand.....	3
OAS 331 Records Management.....	3
Electives.....	3

30

Fourth Year

BAC 436 Mgt Info Systems.....	3
Eco 334 Macro Economics or Eco 339 Economics of the Firm.....	3
Mgt 437 Admin Policy.....	3
OAS 335 Bus Comm.....	3
OAS 336 Office Info Systems.....	3
OAS 337 Electronic Word Processing Systems.....	3
OAS 338 Secretarial Office Procedures.....	3
OAS 431 Office Management.....	3
Fine Arts.....	3
Electives (College of Business 300 or 400 Level).....	6

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	Second Year
BAC 133 - Intro to Microcomputers or CS 1311 - Microcomputers I.....3	Acc 231, 232 Prin.....6
Eco 131, 132 Prin.....6	Eng Lit.....6
Eng Comp.....6	Fine Arts.....3
Lab Science (same science).....8	Hlth 137.....3
Mth 1341 Elements of Analysis for Bus. Appl.3	Am His.....6
OAS 233 Advanced Typewriting.....3	POLS 231, 232.....6
Phl 130 Phil of Knowledge.....3	Spc 131.....3
PE Activity.....4	
36	33

Third Year	Fourth Year
BAC 334 Adv Microcomputer Applications.....3	BAC 436 Mgt Info Systems.....3
BAC 331 Bus Analysis.....3	Mgt 332 Prod Management.....3
BLW 331 Bus Law.....3	Mgt 437 Admin Policy.....3
Fin 331 Prin of Finance.....3	OAS 335 Bus Comm.....3
Mgt 331 Prin of Org Beh & Mgt.....3	OAS 336 Office Info Systems.....3
Mkt 331 Prin of Marketing.....3	OAS 431 Office Management.....3
OAS 232 Inter Shorthand.....3	OAS 438 Content Analysis for Business.....3
OAS 338 Secretarial Office Procedures.....3	PED 3326 Reading Strategies.....3
PED 331 Intro Am Ed.....3	PED 438 Sec Methodology & Class Mgmt.....3
PED 332 Human Learning.....3	PED 462 Student Teaching.....6
PED 338 Sec Curriculum & Methodology.....3	
Elective (Restricted).....3	
36	33

For complete information on teacher certification requirements, please see College of Education and Human Development.

Administrative Services Courses (AS)

130	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 freshman, especially business majors.	
133	Introduction to Microcomputers for Business Applications	3:3:0
	Role of microcomputers in a business environment. Computer literacy concepts, DOS, applications of word processing and spreadsheets in business communications and problem solving, introduction to concepts and applications of databases and database management. Enrollment is restricted to business majors.	
431-434	Special Topics in Administrative Services	3:A:0
	Intensive investigation of topics in business analysis, business computers, law, or office administration. Library and/or laboratory and conferences with supervising faculty member. May be repeated when area of study differs. <i>Prerequisite: Approval of department head and instructor.</i>	
435	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.)	
	<i>Prerequisites: 2.5 minimum grade-point average and pre-registration consent of instructor.</i>	

Business Analysis and Computers Courses (BAC)

330	Microcomputer Software Applications for Business	3:2:2
	An introductory course to microcomputer software packages for business applications. Basic microcomputer operation; electronic spread sheets; database programs; word processing programs; interface among various software programs; specific business applications.	
	<i>Prerequisite: CS 1311 or CS 1411.</i>	

- 331 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: Mth 1341 or three hours of approved mathematics.
- 332 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: BAC 331.
- 436 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: MGT 331 and 436.
- 437 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: OAS 436.

Business Law Courses (BLW)

- 331 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.
- 332 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.
- 434 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: BLW 331.
- 438 Property and Mineral Law** 3:3:0
Survey of real property and oil and gas law. Topics include types of ownership interests in land and minerals; methods of acquiring title (deeds, probate, gift); usage of courthouse records; rights and duties of landowners and producers; oil and gas leases; pooling and unitization; and problems commonly encountered in conveying rights and ownership.
Prerequisite: BLW 331.

Office Administration Courses (OAS)

- 131 Business Writing Fundamentals** 3:3:0
Refinement of writing skills; research basics; introduction to business letters and reports; business vocabulary development.
- 132 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.
- 134 Introduction to Word Processing Applications** 3:2:2
An introduction to the fundamental techniques required in the operation of word processing equipment and software, electronic storage and retrieval, creating, printing, centering and revising documents; ten-key pad operation; introduction to transcription machines.
Prerequisite: Intermediate Typewriting.
- 135 Information Storage Procedures** 3:3:0
The basic principles and procedures of records storage and control, storage and retrieval methods, manual and automated storage systems, ARMA standards, floppy and hard disk file management.

- 230 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.
- 231 Beginning Shorthand** 3:3:0
Introduction of Gregg Shorthand. Reading; writing; theory principles; brief forms; previewed dictation.
- 232 Intermediate Shorthand** 3:3:0
Intensification of shorthand reading and writing skills. Brief form and theory review; speed-building dictation; transcription practice.
Prerequisite: OAS 231 or equivalent.
- 233 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.
Prerequisite: OAS 132 or equivalent.
- 235 Spreadsheets for Office Applications** 3:2:2
The design and use of microcomputer spreadsheet application programs. Extensive practice of basic spreadsheet functions and operations; spreadsheet graphics; elementary spreadsheet programming.
- 236 Desktop Publishing for Office Applications** 3:2:2
An introduction to desktop publishing using hands-on practice with realistic business projects. Preparation of flyers, newsletters, reports, etc., with emphasis on design, composition, and typography.
Prerequisite: OAS 237 or equivalent.
- 237 Advanced Word Processing and Transcription** 3:2:2
An advanced level course with emphasis on the mastery of selected word processing equipment in the creation, editing, revising and storage of business forms and documents; mastery of transcription units.
Prerequisite: OAS 134 or permission of instructor.
- 238 Procedures for the Administrative Assistant** 3:2:2
Role of the office professional in today's business world, human relations, telecommunications, word and data processing administration, administrative support activities.
- 331 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.
- 335 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.
- 336 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.
- 337 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.
- 338 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.
- 431 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.
- 432 CPS Review** 3:3:0
A comprehensive review of the six subject matter areas covered by the Certified Professional Secretary examination. Individual research; group projects; discussion; sample examinations. Recommended for candidates sitting for CPS examination.

- 434 **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.
- 438 **Content Analysis for Business** 3:3:0
A review of the content in such courses as accounting, economics, management, keyboarding, software applications, business law, etc. Other topics include planning, resources, ethics and career growth in areas of management and related professions. This course is recommended for all office administration majors as well as other students majoring in the College of Business. The course may also be taken by non-business majors.

Department of Economics and Finance

Department Chair: Charles F. Hawkins **240 Galloway Business Building**

Professors: C. Allen, Brust, Cherry, Hawkins, Parigi, Price **Phone 880-8647**

Associate Professors: Choi, Montano, Moss, Pearson

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.

Recommended Program 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	
Eco 131, 132 Principles	6	Acc 231, 232 Principles	6
Eng Comp	6	Eng Lit	6
Mth 134 & 1341 Math for Bus. Analysis & Applications		POLS 231, 232	6
Mth 236 & 237 Calculus I & II	6	Am His	6
Lab Science	8	Health & Wellness	3
BAC 133 - Intro to Microcomputers or CS 1311 - Microcomputers I	3	Spc 131	3
Phil of Knowledge	3	Fine Arts	3
PE	2		
	34		33
Third Year		Fourth Year	
OAS 335 Bus Comm	3	Eco 332 Money and Banking	3
Fin 331 Prin of Finance	3	Eco 4315 Gov and Bus	3
Mkt 331 Prin of Marketing	3	Mgt 331 Prin of Org Beh & Mgt	3
BAC 331, 332 Bus Analysis	6	Mgt 332 Prod Management	3
Eco 333 Inter Theory	3	Mgt 437 Administrative Policy	3
Eco 334 Macro Economics	3	BLW 331 Bus Law	3
Eco 339 Eco of the Firm	3	BAC 436 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	
Eco 131, 132 Prin	6	Acc 231, 232 Principles	6
Eng Comp	6	Eng Lit	6
Mth 134 & 1341 Math for us Analysis and Applications		Am His	6
Mth 236 & 237 Calculus I & II	6	POLS 231, 232	6
Lab Science	8	Electives	3
PE	2	Health & Wellness	3
Philosophy of Knowledge	3	Fine Arts	3
BAC 133 - Intro to Microcomputers or CS 1311 - Microcomputers I	3		
	34		
Third Year		Fourth Year	
BAC 330 Micro Software for Business	3	Eco Courses (Advanced Level)	18
Eco 333 Inter Theory	3	Minor Courses (Advanced Level)	12
Eco 334 Macro Eco	3		
BAC 331, 332 Bus Anal	6		
Spc 331 Bus and Pro Speech	3		
Minor Courses	6		
Advanced Electives (300 or 400 Level)	7		
	31		30

Bachelor of Business Administration - Finance Major

First Year

First Semester

Acc/AS/Eco/Mgt 130 Bus Environ and Public Policy	3
Eng Comp	3
Eco 131 Prin	3
Mth 134 Math for Bus or Mth 236 Calculus I	3
Lab Sc	4
Phil of Knowledge	3
PE/ROTC/MLb	1-2

20-21

Second Semester

Eng Comp	3
Eco 132 Prin	3
BAC 133 - Intro to Microcomputers or CS 1311 - Microcomputers I	3
Mth 1341 Ele of Anal for Bus or Mth 237 Calculus II	3
Lab Sc	4
PE/ROTC/MLb	1-2

20-21

Second Year

First Semester

Eng Lit	3
American History	3
Acc 231 Prin	3
POLS 231	3
Fine Arts	3
Health & Wellness	3

18

Second Semester

*Spc 131 or 331	3
Eng Lit	3
Am His	3
Acc 232 Prin	3
POLS 232	3

15

*Personnel Administration majors should take Spc 334.

**PE Activity not acceptable.

In the last two years, the student majoring in Finance must select one of two tracks: Financial Management or Financial Services. Professional electives selected with the approval of the department head provide preparation in one of the two tracks.

Third Year

First Semester

BAC 331 Bus Analysis I	3
BLW 331 Bus Law	3
Fin 331 Prin of Finance	3
Mkt 331 Prin of Marketing	3
OAS 335 Bus Comm	3
**Elective (non-business)	3

18

Second Semester

BAC 332 Bus Analysis II	3
Fin 332 Fin Analysis	3
Fin 431 Investments	3
Mgt 331 Prin of Org Beh & Mgt	3
*Professional track elective	3

15

Fourth Year

First Semester

Eco 334 Macroeco	3
Fin 432 Fin Markets and Institutions	3
Mgt 332 Prod Management	3
*Professional track elective	3
***Elective (College of Business 300 or 400 Level)	3

15

Second Semester

Bac 436 Management Information Systems	3
Fin 433 Comm Banking	3
Mgt 437 Admin Policy	3
*Professional track elective	3
***Elective (College of Business 300 or 400 Level)	3

15

*Requires approval of the department head.

**PE Activity not acceptable.

***The faculty advisor should be consulted by the student to select electives that will be most beneficial in terms of career goals.

Economics Courses (Eco)

131 Principles (Micro)

Introduction to economic principles; allocation of resources; determination of output and prices; distribution; and managerial economics.

3:3:0

- 132 Principles (Macro)** 3:3:0
Emphasizes monetary theory; national income analysis; fluctuation and growth; public finance; international trade; and current economic problems.
- 233 Principles and Policies** 3:3:0
Comprehensive introduction to economic principles and problems for non-business students. Resource utilization; price determination; distribution of income; fiscal and monetary problems; economic growth.
- 331 Economics of Entrepreneurship** 3:3:0
Comprehensive analysis and practice exercises in entrepreneurship. Studies include demand analysis; pragmatic economic feasibility studies; identification and use of resources; function and use of profits.
Prerequisite: Six hours of Economics.
- 332 Money and Banking** 3:3:0
Functions and policies of the American monetary and banking system. Commercial banking; Federal Reserve System; monetary theories and policies; economic stabilization and growth.
Prerequisite: Six hours of Economics.
- 333 Intermediate Theory** 3:3:0
Economic analysis and methodology. Distribution theory; price theory; pure and imperfect competition.
Prerequisite: Eco 131.
- 334 Macro Economics** 3:3:0
A descriptive-analytical approach to the dynamic forces that influence the aggregate level of economic activity. Income and employment determinants; levels of income and employment, stabilization theory; investment and income relationship; monetary and fiscal policies.
Prerequisite: Eco 132.
- 335 International Trade** 3:3:0
Theories, practices and problems involved in international commerce between nations. Bases of trade; tariffs; exchange controls; international monetary policies; current problems.
Prerequisite: Six hours of Economics.
- 336 Survey of Labor Economics** 3:3:0
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.
Prerequisite: Three hours of Economics or approval of the instructor.
- 337 Public Finance** 3:3:0
Study of the constitutional, administrative and economic aspects of governmental fiscal activities; government debt; intergovernmental fiscal relations; federal, state and local taxes.
Prerequisite: Six hours of Economics.
- 339 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: Eco 131.
- 4301, 4601 Institute in Economics** 3-6;-6:0
Institutes are designed to advance the professional competence of participants. When courses are conducted in sufficiently different areas and with the approval of the department head, a participant may repeat the course for credit.
- 4311, 4611 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.
- 430 Regional and Urban Economics** 3:3:0
Analysis of regional development and industrial location; economic problems of urban areas in financing and supplying goods and services at adequate levels.
Prerequisite: Six hours of Economics.
- 431 Monetary Theory** 3:3:0
An analytical, institutional, historical and empirical analysis of monetary theory, and its interrelations with the generally accepted economic goals.
Prerequisite: Eco 131, 332, or 334 or approval of instructor.

- 4315 Government and Business** 3:3:0
Promotion, regulation and restriction of business enterprises by government. Regulatory agencies; antitrust laws; consumerism; transportation; industrial organization and concentration and the eco-legal environment.
- 433 History of Economic Thought** 3:3:0
Historical development of economic thought from primitive periods to the present. Classical; historical; socialist; neoclassical; institutional thought.
- 434 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.
- 435 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.
- 436 Business Cycles** 3:3:0
The nature and causes of business cycles. Cyclical theories; business fluctuations; forecasting stabilization; current problems.
Prerequisite: Six hours of Economics.
- 438 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 (Fin)

- 331 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: Eco 233 or Eco 131 and 132, Acc 232 and Junior standing.
- 332 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: Fin 331.
- 333 Insurance** 3:3:0
Application of fundamental principles to life, property and casualty insurance. Contracts, premiums, legal statutes, risk, programming.
Prerequisite: Junior standing.
- 336 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.
- 430 Life and Health Insurance** 3:3:0
The nature of life and health insurance, various ways of utilizing the protection it offers. Principal features of insurance and annuity contracts. Group insurance, hospitalization and disability, rating, reserving, and financial statement analysis.
Prerequisite: Fin 333.
- 431 Investments** 3:3:0
An appraisal of investment alternatives in financial markets. Markets, securities, methods of analysis, investment programming.
Prerequisite: Fin 331.
- 432 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: Fin 331.

- 433 **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: Fin 331.
- 434 **Real Estate** 3:3:0
A survey of real estate principles and practices, including the law of real property, real estate appraisal, marketing and finance.
Prerequisite: Junior standing.
- 435 **Property and Casualty Insurance** 3:3:0
The nature of property and casualty insurance, coverages offered by property and casualty insurers with emphasis on the development, basic concepts, and legal basis of the various lines of property and casualty insurance.
Prerequisite: Fin 333.
- 436 **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: Fin 431.
- 437 **Valuation of Real Property** 3:3:0
Economic theory of value with application to real estate. Real estate appraisal methods as applied to both residential and income properties.
Prerequisite: Fin 434.
- 439 **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: Fin 434.

Department of Management and Marketing

Department Chair: Jon B. Freiden **236 Galloway Business Building**

Professors: Freiden, Godkin, B. Sethna, R. Swerdlow, Wooten **Phone 880-8622**

Assistant Professors: Hand, Lee, Steiert, Wellan

Adjunct Assistant Professors: Jones, M. Sethna

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.

Personnel Administration

Personnel administration 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 personnel administration 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, retail merchandising, and retail management.

Academic Counseling

Management, Marketing and Personnel Administration 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 (300 level) courses. This will insure completion of Junior level course prerequisites.

First Year

First Semester		Second Semester	
Eng Comp.....	3	Eng Comp.....	3
PE.....	2	PE.....	2
Lab Sci.....	4	Lab Sci.....	4
Phl 130.....	3	BAC 133 - Intro to Microcomputers or	
AS/Eco 130.....	3	CS 1311 - Microcomputers I.....	3
Eco 131 Prin.....	3	Hlth 137.....	3
		Eco 132 Prin.....	3
	<hr/> 18		<hr/> 18

Second Year

Eng Lit.....	3	Eng Lit/Language**.....	3
POLS.....	3	POLS.....	3
Mth 134.....	3	Mth 1341.....	3
Am His.....	3	Am His.....	3
Spc 131 or 331*.....	3	Fine Arts.....	3
Acc 231 Prin.....	3	Acc 232 Principles.....	3
	<hr/> 18		<hr/> 18

*Personnel Administration majors must take PSY 131.

**Could be satisfied with one-year high school language, student could then use the 3 hours as an outside elective.

**Recommended Programs of Study
Bachelor of Business Administration
Personnel Administration (Accreditation)**

(See Core Program for First and Second Year)

Third Year

First Semester	Second Semester
Oas 335 Bus Comm3	Blw 331 Bus Law3
Bac 331 Bus Analysis II.....3	Bac 332 Bus Analysis II.....3
Fin 331 Prin of Fin3	Mgt 332 Production3
Mgt 331 Prin of Org Beh & Mgt3	Mgt 333 Personnel3
Mkt 331 Prin of Mkt3	Spc 334.....3
15	15

Fourth Year

Third Semester	Fourth Semester
Bac 436 Mgt Information Systems3	Oas 431 Office Management.....3
Mgt 432 Adv Org Behavior.....3	Mgt 433 Cont Issues3
Psy 336 Tests & Measurements3	Mgt 437 Adm Policy3
Eco 334/339.....3	Mgt 434 Productivity3
12	15

**Bachelor of Business Administration
Management Major**

(See Core Program for First and Second Year)

Third Year

First Semester	Second Semester
Oas 335 Bus Comm3	Blw 331 Bus Law3
Bac 331 Bus Analysis I.....3	Bac 332 Bus Analysis II.....3
Fin 331 Prin of Fin3	Mgt 332 Production3
Mgt 331 Prin of Org Beh & Mgt3	Mgt 333 Personnel3
Mkt 331 Prin of Mkt3	Acc 334 Cost Accounting.....3
15	15

Fourth Year

First Semester	Second Semester
Mkt 438 Small Business3	Bus Elec (300/400 level)3
Bac 436 Mgt Information Systems3	Mgt 437 Adm Policy3
Mgt 432 Adv Org Behavior.....3	Mgt 434 Productivity3
Mgt 431 Budgetary Control3	Mkt 431 Mkt Management3
Eco 334/339.....3	
15	12

Bachelor of Business Administration

Marketing Major

(See Core Program for First and Second Year)

Third Year

First Semester	Second Semester
Oas 335 Bus Comm3	Blw 331 Bus Law3
Bac 331 Bus Analysis I3	Bac 332 Bus Analysis II3
Fin 331 Prin of Fin3	Mgt 332 Production3
Mgt 331 Prin of Org Beh & Mgt3	Mkt 332 Retailing3
Mkt 331 Prin of Mkt3	Mkt 333 Promotion3
15	15

Fourth Year

First Semester	Second Semester
Bac 436 Mgt Information Systems3	Mkt 436 Mkt Research3
Mkt 433 International Mkt3	Mgt 437 Adm Policy3
Mkt 432 Buyer Behavior3	Mkt 437 Adv Mkt Problems3
Mkt 431 Marketing Management3	Bus. Elec (300/400 level)3
Eco 334/3393	
15	12

Management Courses (MGT)

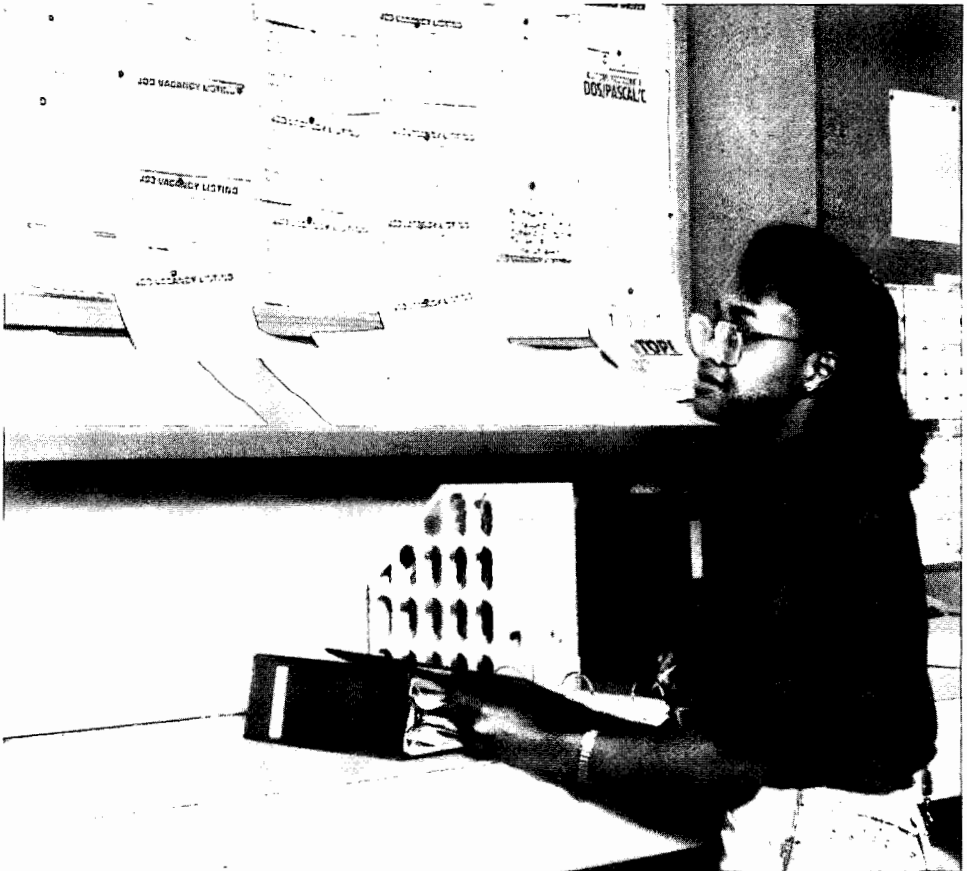
- 130 Business Environment and Public Policy** 3:3:0
A survey course emphasizing interaction of business with its external and internal environments. Introduction to public policy processes and issues with focus on ethical and moral considerations.
Recommended for Freshman who have an interest in business.
- 331 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: Eco 233 or Eco 131 and Eco 132, Acc 231 and junior standing.
- 332 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: Bac 331, Mgt 331 and Acc 232.
- 333 Personnel 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: Mgt 331.
- 431 Budgetary Control** 3:3:0
Theories, problems and techniques of internal financial and budgetary controls. Financial planning, budgetary construction, evaluation, performance rating, replanning.
Prerequisite: Mgt 331 and Fin 331.
- 432 Advanced Organizational Behavior** 3:3:0
A survey of organization theory with emphasis on behavioral issues in both the private and public sectors.
Prerequisite: Mgt 331 and Senior standing.
- 433 Contemporary Issues in Personnel Management** 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: Mgt 333.

- 434 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: Mgt 332
- 437 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: Fin 331, Mgt 331, Mkt 331, Mgt 332 and senior standing.
- 438 Management of Computer Systems** 3:3:0
Concepts of computers, information systems, capabilities and limitation, managerial implications in the introduction and use of computers, feasibility study and evaluation of computer systems. Methods of data storage, display and retrieval.
Prerequisite: CS 1311.
- 439 Special Problems in Business** 3:A:0
Investigation into special areas in business under the direction of a faculty member.

Marketing Courses (MKT)

- 331 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: Eco 233 or Eco 131 and 132, Acc 231 and Junior standing.
- 332 Principles of Retailing** 3:3:0
A comprehensive introduction to large scale retailing with emphasis on layout, merchandise management, pricing, inventory control and retail promotion.
Prerequisite: Mkt 331.
- 333 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: Mkt 331.
- 334 Professional Salesmanship** 3:3:0
A survey of modern salesmanship as applied to selling of tangibles and intangibles. The salesman in relation to his/her firm, goods and customers, sales psychology, classroom sales demonstrations.
- 431 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: Mkt 331, Mgt 331 and senior standing in the College of Business.
- 432 Buyer Behavior** 3:3:0
Acquaints the student with consumer behavior models and behavior research techniques.
Prerequisite: Mkt 331.
- 433 International Marketing** 3:3:0
A survey of international marketing, world markets, political restraints in trade and international marketing principles.
Prerequisite: Mkt 331, Mgt 331 and senior standing in the College of Business.
- 434 Industrial Marketing** 3:3:0
A comprehensive analysis of problems involved in marketing industrial goods with emphasis on market characteristics, purchasing and distribution systems, promotion mix and marketing strategy.
Prerequisite: Mkt 331.
- 435 Quantitative Techniques in Marketing** 3:3:0
Topics include Bayesian inference, payoff tables, sample design, analysis of variance, and multiple correlation and regression analysis.
Prerequisite: Mkt 331 and Bac 332 as prerequisite or corequisite.

- 436 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: Mkt 331 and Bac 332 as prerequisite or corequisite.
- 437 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: Mkt 431 and senior standing in the College of Business.
- 438 Small Business Institute** 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: Bac 331, Mkt 431 and senior standing in the College of Business.



Students are able to check daily on job postings in the Placement Center which is located in the Galloway Business Building.



The Department of Health, Kinesiology and Dance offers many career options including certification to teach, perform or choreograph in Dance division. Students participate in campus performances.

The College of Education and Human Development

Departments: Professional Pedagogy; Health, Kinesiology and Dance; Home Economics and Educational Leadership

LeBland McAdams, Interim 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 of Education.

Degrees Offered

Bachelor of Science Degree with majors in the following fields:

Interdisciplinary Studies

Home Economics

Dance

Kinesiology

Health

Bachelor of Arts with a major in Dance

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, Home Economics and Health, Kinesiology and Dance. 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 the College's 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, education of the deaf, driver education, all-levels music, all-levels art, all-levels physical education, kindergarten education, vocational home economics, and English as a second language.

Information concerning graduate teacher education programs and professional certification may be found in the Graduate Studies Bulletin.

All teacher education programs are accredited by the National Council for the Accreditation of Teacher Education.

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 Beaumont campus.

The center is used extensively by the Department of Home Economics, the Department of Pedagogy, the Department of Health, Kinesiology and Dance, 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.

Admission to Teacher Education

Application for admission to the teacher education program is made upon, or prior to, enrollment in PED 331 or 332.

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 of Education.

Admission Requirements

1. Completion of 60 semester hours including:
 - a. Successful completion of the required 100 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.
 * (Students who entered college before Fall Semester, 1989, and have been continuously enrolled, are required to meet the 2.00 GPA admission requirement to Teacher Education.)
3. Completion of a formal biographical information profile.
4. Recommendations from three faculty members.
5. 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 PED courses. This 12 semester hour blocking of courses, (six hours for student teaching and two, three semester hour PED courses) constitutes a "professional semester."

For elementary certification programs, these courses are PED 434 and 334. For all levels certification programs these courses are PED 434 and 338. For secondary certification programs these courses are PED 438 and 338.

Students who are eligible and who desire to enroll in the "professional semester" must apply to the Director of Professional Services by February 1, prior to the academic year 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:
 - * (Students who entered college before Fall Semester, 1989, and have been continuously enrolled, are required to meet the 2.00 GPA admission requirement to Student Teaching.)
 - 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 PED 334, 434 and 463 or 465.
 - b. For elementary options IV, all professional education courses except PED 334, 4300, and 463.
 - c. For secondary students except Home Economics majors, all professional education courses except PED 334, 438 and 462.
 - d. For Home Economics majors, HEC 338 and 438.
 - e. For all-levels students (Art, Hearing Impaired, Music and Physical Education) all professional education courses except PED 338, 434 and 463.
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 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 of Education.

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.
 * (Students who entered college before Fall Semester, 1989, and have been continuously enrolled must have a grade point average of 2.00 in all work undertaken at Lamar, 2.00 in elementary school specialization or in each teaching field and 2.00 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.

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) 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
 (Must include 3 hrs Fine Arts and 3 hrs Social Science).....9
 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, Bible, 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, Kinesiology and Dance 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 Home Economics 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 Admissions 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, Admissions 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 College Admission Office.

Professional Certificates

Requirements for Professional Certificates are described in the Graduate Catalog.

Department of Professional Pedagogy

Department Chair: Doyle Watts

202 Education Building

Professors: Briggs, Burke, Hargrove

Phone 880-8673

Associate Professors: Cooper, Henry, Karlin, Lane, McCaskill, Rice

Assistant Professors: Goulas, Matheny

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 hours

Art—Art 131 or 132, 133, 135, 4331; six hours from: 3316, 3335, 3355, 3376, 4358, 4368.

Biology—141, 142, 245, 346, 417; Four hours selected from: 344, 444, 446, 443.

Communication—Comm 233, 238, 332, 333, 334.

Earth Science—Geo 141, 142, 236, 339, 4370, 4380, and Phy 137 or Geo 234.

English—Six semester hours of literature are in the general education courses. Eng 4312 or ESL 434, 3 courses from Eng 339, 334, 3324, 4328, 4329, 4336, 336, 337, 339, 3322, 4317, 4318, 4319, 4326, 4322, 338, 3316, 432, 434, 435, 438, 439, or equivalent.

French—Fre 131, 132, 231, 232, 330, 337, 338.

Health—HEd 131, 133, 234, 331, 338, 434.

History—His 131 or 132, 231, 232, one course Advanced U.S. History, one course Advanced Non U.S. History and one course Advanced History.

Math—Mth 1331, 1334, 1336, 3313, 3315, 3317.

Music—MTY 132, 133, MUS 331, 332, 335, 337.

Kinesiology (required)—KIN 335, 337 or 443, 438, KINA 2201; Dan 127; six hours selected from: KIN 231, 343, 436.

Reading—PED 232, 336, 337, 339, 431, 439.

Spanish—Spa 131, 132, 231, 232, 330, 331, and 335.

Physical Science—Chm 141, 142 or 143, 144; Phy 141 or 142, 143, 144, and nine hours upper division Chemistry or Physics courses.

Social Studies—Geo 237, 238; Eco 131, 132; POLS (six hours-three hours advanced); His 131, and three hours advanced, NON U.S. history.

Option III

Special Education—PED 2301, 2302, 3304, 3305, 4307, 4308, 4309, and 4310.

Option IV—24 hours

Early Childhood—PED 336, 4305, 4300, 4303, 4304; HEc 334, 339, Kin 337 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 III—12 hours
 Option IV—12 hours

Professional Development (18 semester hours)

- PED 331 Introduction to American Education
 PED 332 Human Learning
 PED 334 Elementary Curriculum & Methodology
 PED 434 Elementary Methodology and Classroom Management (C&I 4300 for Opt. IV)
 PED 465 Student Teaching in the Elementary School

Bachelor of Science Degree - Interdisciplinary Studies

Recommended Program 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 Sc	8	Amer His	6
Music (as required)	3	Pol Sc 231, 232	6
Phl 130	3	Spc 131 or 331	3
Elec Core Curriculum	3	Courses from combination of subjects	3
PE	2	Hlth 137	3
Art 3371	3	CS 130, 1311 or PED 4331	3
Math 1331, 1334	6	Area of Specialization	3
	<hr/> 34	Humanities	3
			<hr/> 36
Third Year		Fourth Year	
Geo 237 or 235 or 236 or 238	3	Mth 3315	3
Ped 331	3	Science Adv	6
Ped 332	3	Reading Adv	6
Ped 337	3	Eng Adv Lit	3
Area of Specialization	9	Ped 334	3
Eng 4312	3	Ped 434	3
Soc Sc (Adv)	6	Ped 465 or 463	6
Math 3313	3	Area of Specialization	3
	<hr/> 36		<hr/> 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.

Ped 4302 Early Childhood Development	3
Ped 4303 Instruction in Early Childhood	3
Ped 4304 History and Philosophy of Kindergarten	3
Ped 463 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.

(Certification options are listed below)

Art—Opt II Specialization: (24 semester hours) Art 131, 133, 134, 231, 3316, 3335, 3355 and 3376 (Academic foundation must include Art 235 & 236).

Art (All Levels) Specialization: (48 semester hours) Art 131, 132, 133, 134, 231, 233, 237, 139, 3316, 3355, 3371, 3376, 3335 (plus nine hours of advanced electives). Academic foundation must include Art 235 and 236.

Biology—Opt I Bio 141, 142, 240, 245, 344, 345, 346 or 444, 347, 446, or 443, Chm 141, 142, 341.

Biology—Opt II Specialization: (24 semester hours completion of Biology core which includes Bio 245, 345, 347, 240 346 or 444. Bio 141 and 142 four hours from 344, 443, 446 must be included in Foundation Core.

Business Composite—Opt III Office Administration (Plan II Composite Field), Specialization: (54 semester hours) Acc 231, 232, BAC 330, 331, BLW 331, Fin 331, MGT 331, 332, 437, MKT 331, OAS 232, 233, 335, 336, 338, 431, 436, 438. (Academic Foundations must include Eco 131, 132, Spc 131, plus three hours from a third group).

Chemistry—Option I Specialization (48 semester hours) Chm 141, 142, 241, 333, 341, 342, 431, 432, 413, 414, 411, 412, 1 hour of Chm elective, Phy 141, 142, Math 236, 237.

Chemistry—Opt II Specialization: (25 semester hours) Chm 141, 142, 241, 333, 341, 342, 411, one hour Chem elective.

Communication—Opt II Specialization: (24 semester hours) Com 232, 233, 235, 238, 332, 334, 4324, 434.

Computer Information Systems—Opt I Specialization (50 semester hours) CS 1411, 1413, 2313, 3301, 3307, 4305, 4311, 4312, 4321, 4101. Six hours from CS 4302, 4306, 4307, 4309. Math 148, 149, 234, 233.

Computer Information Systems—Opt II Specialization: (24 semester hours) 3301, 4305, 4321, 1411, 1413, 2313, 4306, 4101

Dance—Opt II Dan 231, 233, 235, 335, 336, 438, Kin 231, 343. Three hours from Dan 3301, 434, Pept 337, 443.

Drama (See Theater).

Earth Science—Opt I Specialization (50 Semester hours) Geo 141, 142, 241, 339, 4102, 4103, 419, 442, 445, 449, 4370, 4380, Chem 143, CS 1311 or Phy 133, Phy 137 or Geo 234, Psy 241.

Earth Science—Opt II Specialization: (27 semester hours) Geo 141, 142, 241, 4102, 4103, 419, 4370, 4380. Physics 137 or Geo 2130, Chm 143.

Life-Earth Science—Opt II Specialization (37-38 semester hours) Bio 141, 142, 442, 345. Physics 137, Geo 4370, Geo 4380, or Bio 349, Bio 443 or Bio 446, Geo 141 and 142.

Economics—Opt II Specialization: (24 semester hours) Eco 131, 132, 336, 337, 4315, 435, plus six semester hours from Eco 332, 333, 434, 437, 438, 439.

English—Opt I Specialization: (36 semester hours) six semester hours of sophomore literature: Eng 3321, Eng 4326, one course from Eng 430, 4312, 4323, two courses from Eng 336, 339, 3324, 4328, 4329, 4336, or equivalent, four courses from Eng 332, 334, 336, 337, 338, 3316, 432, 434, 435, 438, 439, 4311, 4314, 4317, 4318, 4319, 4333, 4334,

4337, or equivalent, and one advanced Eng elective. Must include a foreign language through 232.

English—Opt II Specialization: (30 semester hours) six semester hours of sophomore literature; Eng 3321, Eng 4326, one course from Eng 430, 4312, or 4323, two courses from Eng 336, 339, 3324, 4328, 4329, 4336, or equivalent, three courses from Eng 332, 334, 336, 337, 338, 3316, 432, 434, 435, 438, 439, 4311, 4314, 4317, 4318, 4319, 4333, 4334, 4337, or equivalent. When selected as first teaching field, must include a foreign language through 232, as second teaching field, must include a foreign language through 132.

English Language Arts—Option IV Specialization: (48 semester hours) six hours of sophomore literature, Eng 3321, Eng 4326, Eng 430, 4312, or 4323, fifteen hours of advanced literature (may include 335 or 4345), SPEECH 131 or 331 (in foundations); SPEECH 235, Com 133, Com 231, Ped 3326 (in Foundations), and Ped 339. Must include a foreign language through 232.

French—Opt II Specialization: (30 semester hours) Fre 131, 132, 231, 232, 330, 337, 338, plus nine hours from Fre 335, 336, 339, 431, and 439.

General Science—Opt IV (Plan II Composite Field) Specialization: (54 semester hours) Bio 141, 142; Chm 141, 142, 333; Geo 141, 142, 241, 344; Phy 141, 142, 333; 8 or 9 Hours Adv. Bio. or 12 Hours Adv. Geo. or 8 or 9 Hours Adv. Chemistry or 8 or 9 Hours Adv. Phy.

Health—Opt II Specialization: (27 semester hours) Hlth 131, 133, 234, 331, 336, 337, 434, 437, HEC 138.

History—Opt II Specialization: (24 semester hours) His 131, 132, six hours advanced American History, six hours advanced non - U.S. History plus His 134 and 339.

Vocational Home Economics Specialization: (54 semester hours) HEC 111, 112, 131, 133, 137, 231, 232, 233, 337, 239, 330, 334, 335, 336, 338, 339 or 4327, 411, 4308, 433, 439. See Home Economics section of this bulletin for complete description of certification plan in this area.

Communication—Opt II Specialization: (24 semester hours) Com 232, 235, 233, 238, 332, 334, 4324, 424.

Mathematics—Opt I Specialization: (36 semester hours) Mth 148, 149, 241, 3370, 233, 333, 335, 331, 338. At least two course selected from the following list: Mth 3321, 4331, 431, 4315, 4316, 433, 438, 4321, 3311, 437, 4202. (Six semester Computer Science)

Mathematics—Opt II Specialization: (26 semester hours) Mth 148, 149, 233, 234 or 3370, 335, 333, 338, and any two courses from the following group: Mth 331, 3311, 3321, 4315, 4316, 4321, 433.

Music (All Levels) See Music Department in this bulletin.

Note: Bio 143-144 are not prerequisite to advanced Biology courses as Foundation electives.

Kinesiology—Opt I See Department Health, Physical Education and Dance in this bulletin.

Kinesiology—All Levels See Department Health, Physical Education and Dance in this bulletin.

Physical Science—Opt II Specialization: (28-30 semester hours) Chm 141, 142, 333; Phy 141, 142, 335; plus 8 approved advanced hours.

Physics—Opt II Specialization: (24 semester hours) Phy 247, 248, 338, 343, 335; one course selected from 339, 346, 436, 448 plus three hours of approved physics.

Political Science—Opt II Specialization: (24 semester hours) POLS 131, 231 or 231H, 232 or 232H, plus one course from each group bracketed: (334, 335, 339, 437, 3301, 3313, 4312), (432, 433), (332, 337, 435), (331, 3317, 4381, 4383), (3316, 430, 434, 439).

Psychology—Opt II Specialization: (25 semester hours) Psy 131, 234, 241, 332, 333, 336, 432, 436.

Reading—Opt II Specialization: (24 semester hours) PED 232, 337, 336, 3326, 431, 439; PED 3305, 339.

Social Studies—Opt IV (Plan II Composite Field) Specialization: (57 semester hours)

- A. Thirty semester hours: Eco 131, 132; Geo 237, 238; POLS 131, 3319, 4319; His 131, 132, 134, 339.
- B. Twenty four semester hours, approved advanced, selected from the following: History, political science, geography, or Economics.

Sociology—Opt II Specialization: (24 semester hours) Soc 131, 132; one course from Soc 231, 336, 338 or 339; one course from Soc 233, 330, 335, 432, 435; four courses from Soc 332, 437, 333, 434, 436, 438, 439.

Spanish—Opt II Specialization: (30 semester hours) Spa 131, 132, 231, 232, 330, 335, plus twelve hours from Spa 331, 332, 333, 334, 338, 339, 432, 436, and 438.

Special Education-Generic—Opt II Specialization: (24 semester hours) PED 2301, 2302, 3304, 3305, 4307, 4308, 4309, 4310.

Theater (Drama)—Opt II Specialization: (25 semester hours) The 132, 135, 137, 210, 232, 332, 338, 435, 4371. (Departmental participation in productions also required each semester.)

3. Professional Development (18 semester hours)

Ped 331 Introduction to American Education

Ped 332 Human Learning

Ped 338 Secondary Curriculum and Methodology

Ped 438 Secondary Methodology and Classroom Management

Ped 462 Student Teaching in the Secondary School

Professional Pedagogy Courses (PED)

Note: To enroll in non-professional development courses, it is not necessary for students to be admitted to the teacher education program.

120	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.	
2101	Seminar in Teacher Education	0:0:0
	Designed to introduce students at the pre-professional level to career choices and acquaint them with procedures for entering teacher education.	
2301	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.	
2302	Identification and Characteristics of the Exceptional Individual	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.	
2310	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.

- 232 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.
- 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.
- 331 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. Selective field experiences required.
Prerequisite: Junior standing.
- 332 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.
- 3326 Reading Strategies for the Content Areas** 0:0:0
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.
- 334 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.
- 336 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.
- 337 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: PED 233 or PED 339.
- 338 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: PED 331.
- 339 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: PED 331.
- 4101, 4201, 4301, 4601 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.
- 4111, 4211, 4311 Individual Study in Special Education** 1-3:A:0
Investigation into special areas in special education under the direction of a faculty member. This course may be repeated for credit when topics of investigation differ.
Prerequisite: Consent of the department head.
- 4300 Behavioral Management & Classroom Procedures** 0:0:0
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.

- 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.
- 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** 3A:0
Practicum experience in the identification and instruction of pupils evidencing disabilities in reading and language arts.
Prerequisite: PED 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 Practicum in Instructing the Exceptional Individual** 3A: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.
- 431 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 PED 232, 337, 339.
- 4315 Education of Gifted Children** 3:3:0
Identification, programs, guidance and administrative structure for gifted children.
- 432 Educating the Culturally Different** 3:3:0
Delineates personal characteristics and the effective domain of the culturally different and identifies educational strategies applicable to the teaching process.
- 433 Teaching Media and Audio-Visual Technology** 3:3:0
Observation, demonstration and practice in utilizing modern teaching media, including teaching machines and programming.
- 4331 Microcomputer Applications** 3:3:0
A practical course using the Apple II Microcomputers to master word processing, data base, and the spreadsheet. The use and evaluation of selected software along with current issues in microcomputers is included.
- 4336 Methods of Teaching Secondary School Science** 3:3:0
A study of modern inquiry methods common to the separate secondary science disciplines. Emphasis is placed upon the investigative or discovery approach to science instruction.
- 4337 Tests and Measurements** 3:3:0
Principles of human measurement and evaluation, Familiarity with most used tests and evaluation procedures in educational settings.
- 434 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.

- 435 Individualized Instruction Through Technology** 3:3:0
Individualized instruction as the basic conceptual tool for the study, personalization and production of actual materials and modules useful in traditional and performance based instruction. The course will be conducted as a practicum in the theory and practice of individualized instruction.
- 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.
- 438 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.
- 439 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 PED 339 and 431 or by special permission of the Department head.
- 462 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.
- 463 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.
- 465 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 classroom, five days per week for 12 weeks.

Department of Health, Kinesiology and Dance

- Department Chair:** E. Harold Blackwell 101 Women's Gym, Phone 880-2226
- Director of Academic Programs:** Mildred A. Lowrey Phone 880-8711
- Coordinator of Academic Dance Programs:** Lisa Chaisson Phone 880-2244
- Coordinator of Dance Performance:** Julio deBittencourt Phone 880-8138
- Coordinator of Health Programs:** Joel Barton Phone 880-8341
- Coordinator of Kinesiology & Graduate Programs:** Douglas Boatwright Phone 880-8045
- Coordinator of Service Activity Program:** Bill Worsham Phone 880-8704
- Professors:** Bell, Blackwell, Crowder, Holt, Lowrey
- Associate Professor:** Barton, Boatwright
- Assistant Professors:** Chaisson, Gremillion, Lihs, Massey, Morris, Park, Payton, Worsham
- Instructors:** Gilligan, Lihs, Ramos, Wesbrooks, Zeek
- Lecturers:** Collins, Core, Crawford, Hall, Johnson, Montet, Moore, Pecsok
- Artist in Residence:** de Bittencourt

The Department of Health, Kinesiology and Dance provides several career options for students. Three teacher education certification programs are offered: dance, health and

kinesiology. Two programs of study are available which do not lead to teacher certification: dance and health. Undergraduate programs lead to a Bachelor of Science degree in Health or Kinesiology or Dance or a Bachelor of Arts degree in Dance. 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.

Recommended 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	Second Year
Eng Comp6	Eng Lit6
Mth 13343	Am His6
Mth3	POLS 231-2326
Bio 143-1448	Dan 231 Dance Prod3
Spc 1313	Dan 233 Rhythmic Analysis of Dance3
CS 130 or 13113	Kin 231 Functional Anat & Physiology3
Phl 1303	Dan 1283 Modern Dance Tech2
Hlth 1373	Second Teaching Field6
Dan 127 Folk Dance2	
Dan 129 Tap Dance2	
36	35
Third Year	Fourth Year
Ped 331 Intro to American Public Ed3	Ped 338 Curriculum and Methodology3
Ped 332 Human Learning3	Ped 438 Secondary Methodology and Classroom Management3
Ped 3326 Reading Strategies3	Ped 462 Student Teaching-Secondary6
Kin 343 Exercise Physiology4	Dan 336 Choreography3
Dan 235 Composition3	Dance Theory Elective3
Dan 335 Principles of Creative Dance3	Dan 438 Dance History3
Dan 1263 Ballet Tech2	Second Teaching Field9
Soc Sci3	Electives2
Second Teaching Field9	
Electives2	
35	32
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

Eng Comp	6
Mth 1334	3
Mth	3
Bio 143-144	8
Hlth 137	3
Phl 130	3
Dan 127 Folk Dance.....	2
Dance Studio Courses.....	6

34

Second Year

Eng Lit	3
Eng Lit (or equivalent)	3
His 231-232	6
POLS 231-232	6
Kin 231 Functional Anat & Physiology.....	3
Dan 231 Dance Production.....	3
Dan 233 Rhythmic Analysis of Dance	3
Dan Studio Courses	5

32

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.

Third Year

Dan 235 Composition	3
Dan 335 Principles of Creative Dance.....	3
Dan Theory Elective.....	3
Dan 129 Tap Dance	2
Dan 1263 Ballet Tech	2
Dan 1283 Modern Dance Tech.....	2
Kin 343 Exercise Physiology	4
Soc. Sci.....	3
Related Arts Minor.....	9
Electives.....	3

34

Fourth Year

Dan 336 Choreography	3
Dan 438 Dance History.....	3
Dan Theory Elective.....	6
Dan Studio Courses	4
Related Arts Minor.....	6
Electives.....	12

34

Total 134 semester hours

Bachelor of Art - Dance Major Non-Certification Program

Same as the above program except for the completion of the course numbered 232 in a foreign language.

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 300 and 400 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

Eng Comp	6
Mth 1334	3
Mth	3
Bio 143-144	8
Hlth 137	3
PE.....	2
Phl 130	3
Hlth 131 Emergency Care & Safety	3
Hlth 133 Personal Health	3

34

Second Year

Eng Lit	6
Pols 231-232	6
Am His 231-232	6
Soc Sc.....	3
CS 130 or 1311	3
PE.....	2
HEc 138 Nutrition.....	3
Hlth 234 Public and Consumer Health	3
Fine Arts.....	3

35

Third Year

Spc 131 or 331	3
Hlth 238 Human Sexuality and Sexually Transmitted Diseases	3
Hlth 336 Health in the Secondary School	3
Hlth 337 Contemporary Issues	3
PED 331 Intro to American Public Ed	3
PED 332 Human Learning	3
PED 3326 Reading Strategies	3
PED 338 Secondary Curr and Method	3
Second Teaching Field	12
	<hr/> 36

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

Eng Comp	6
Mth 1334 (or above)	3
Mth	3
Bio 143-144	8
Phl 130	3
PE	2
Hlth 137	3
Hlth 131 Emergency Care and Safety	3
Hlth 133 Personal Health	3
	<hr/> 34

Third Year

Hlth 336 Health in Secondary Schools	3
Hlth 337 Contemporary Health Problems	3
POLS 3316 Intro to Public Admin	3
Fine Arts	3
*Electives	21
	<hr/> 33

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 16 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 the following:

Secondary Option I (one teaching field)

All-Level Option II (one teaching field)

Fourth Year

Hlth 434 Health and Human Ecology	3
Hlth 437 Health Science & Epidemiology	3
PED 438 Secondary Methodology and Classroom Management	3
PED 462 Student Teaching-Secondary	6
Second Teaching Field	12

27

Second Year

Eng Lit	6
Pol 231-232	6
Am His 231-232	6
Psy 131 Intro to Psychology	3
PE	2
Eco 233 Principles and Policies	3
HEC 138 Nutrition	3
Hlth 234 Public and Consumer Health	3
Hlth 238 Human Sexuality and Sexually Transmitted Diseases	3
	<hr/> 35

Fourth Year

Hlth 434 Health and Human Ecology	3
Hlth 437 Health Science & Epidemiology	3
Hlth 436 Practicum in Health	3
Hlth 446 Health Internship	4
Soc 332 Soc Psy	3
Spc 334 Interviewing	3
*Electives	13
	<hr/> 32

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 300 and 400 level professional theory courses.

The required block of professional development courses are PED 331, 332, 3325, 3326, 338, 438 and 462. 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 129, Dance 127 or 128, and KinA 2201. Fourteen additional hours must be selected from Dan 127 or 128, KinA 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 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 3000 level professional activity courses.

Entrance Requirements

1. Entering Freshmen who meet the University's general entrance requirements may be admitted to the Department of Health, Kinesiology and Dance.
2. Students who wish to enter the Department of Health, Kinesiology and Dance must have a minimum 2.0 GPA on all work attempted.

Bachelor of Science - Kinesiology Teacher Certification Program - Secondary Option It

First Year	Second Year
Eng Comp.....6	Eng Lit.....6
Mth 1334.....3	PolS 231-232.....6
Mth.....3	Am His.....6
Bio 143-144.....8	CS 130 or 1311.....3
Hlth 137.....3	Kin 231 Functional Anat & Physio.....3
Kin 132 Foundations.....3	KinA 2201 Gymnastics Techniques.....2
Dan 127 or 128 Folk or Square Dance.....2	KinA Electives.....6
KinA 129 Swimming.....2	Spc 131 or 331.....3
KinA Electives.....2	
Phl 130.....3	

Third Year

Kin 332 Management Skills.....3
Kin 335 Atypical Child.....3
Kin 343 Exercise Physiology4
Kin Elective3
Fine Arts3
KinA Electives6
PED 331 Intro to Am Public Edu3
PED 332 Human Learning3
PED 338 Secondary Curri and
Meth.....3
PED 3326 Reading Strategies.....3

34

Fourth Year

Kin 436 Measurement & Evaluation.....3
Kin 443 Motor Learning.....4
Kin 438 Strategies in Kinesiology3
Kin Electives.....9
Soc Sci.....3
PED 438 Secondary Methodology and
Classroom Management3
PED 462 Student Teaching-Secondary6

31

Total 135 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 - Kinesiology
Teacher Certification Program
All Level Option II†**

First Year

Eng Comp6
Mth 13343
Mth3
Bio 143-1448
Hlth 1373
Kin 132 Foundations3
Dan 127 or 128 Folk or Square Dance.....2
KinA 129 Swimming.....2
KinA Electives2
Phl 1303

35

Second Year

Eng Lit6
POLS 231-2326
Am His 231-2326
CS 130-13113
Spc 131 or 331.....3
Kin 231 Functional Anat & Physiology.....3
KinA 2201 Gymnastics Techniques2
KinA Electives6

35

Third Year

Kin 332 Management Skills.....3
Kin 335 Atypical Child.....3
Kin 336 Contemp Prob in
Sec School3
Kin 337 Motor Develop.....3
Kin 339 Movement Exper for
Young Child.....3
Kin 343 Exercise Physiology4
KinA Electives6
Fine Arts3
PED 331 Intro to Am Public Ed.....3
PED 332 Human Learning3
Soc Sci.....3

37

Fourth Year

Kin 436 Measurement & Evaluation.....3
Kin 438 Strategies in Kinesiology3
Kin 443 Motor Learning.....4
Kin Elective3
PED 3326 Reading Strategies.....3
PED 338 Second Curric and
Method.....3
PED 434 Elem Method and
Class Management.....3
PED 463 Student Teaching-All Level.....6

28

Total 135 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.

Dance Studio Courses (Dan)

Dance studio courses (except 2110) will fulfill the physical activity requirements.

1240 Selected Dance Techniques

2:1:2

Instruction and practice in selected dance techniques. May be repeated for credit.

1251, 1252, 1253	Jazz I, II, III	2:1:2
	Instruction and practice in jazz dance. May be repeated for credit.	
1261, 1262, 1263, 1264	Ballet Technique I, II, III, IV	2:1:2
	Instruction and practice in ballet technique. Emphasis is placed on accurate technique and placement. May be repeated for credit.	
127	Folk Dance Techniques	2:1:2
	Instruction practice in beginning folk dance. Emphasis is placed upon the historical and cultural background of the various national dances.	
128	Square Dance Techniques	2:1:2
	Instruction and practice in square dance. Emphasis on class organization and teaching methods.	
1281, 1282, 1283	Modern Dance Technique I, II, III	2:1:2
	Instruction and practice in the techniques of modern dance and composition. May be repeated for credit.	
129	Tap Dance	2:1:2
	Instruction and practice in beginning tap dance.	
2110	Dance Production Workshop	1:1:2
	Practical application of the technical skills utilized in dance production including lighting, scenery and costuming. May be repeated for credit.	
2221	Ballet Company	2:1:5
	The instruction, rehearsal and production of classical ballets. May be repeated for credit.	
2222	Modern Dance Company	2:1:5
	The instruction, rehearsal and production of modern dance and jazz works. May be repeated for credit.	
2250	Improvisation	2:1:2
	Exploration of human movement potential through imagery and/or movement manipulation.	
2280	Social Dance	2:1:2
	An introduction to partner, line and round dance forms of the 20th century.	

Dance Theory Courses (Dan)

231	Dance Production	3:2:1
	The study and practical application of the various elements utilized in dance production including lighting, scene design, costuming and publicity.	
233	Rhythmic Analysis of Dance	3:2:1
	The analysis of movement in relationship to rhythmic patterns, meter, tempo, metric pulse, accents and melodic phrasing.	
235	Composition	3:2:1
	The analysis of the basic elements of dance and the craft of composing dances.	
3301	Theatre Dance Forms	3:1:2
	The study of various dance forms utilized in the theater including character dance.	
331	Dance Notation	3:2:1
	The study of the primary forms of dance notation including Labanotation and Benesh notation and its application to various dance forms.	
335	Principles of Creative Dance	3:3:0
	The study of creative exploration in a constructive and positive environment for children.	
336	Choreography	3:2:1
	Analysis of the elements of choreography and its development and evaluation when applied to composition. <i>Prerequisite: Dan 235</i>	
430	Individual Study in Dance	3:A:0
	Selected problems and research in the area of dance. <i>Prerequisite: Senior standing and consent of department head. May be repeated for credit. Class by consultation.</i>	
434	Contemporary Strategies of Dance	3:3:0
	The study of current trends, issues, and problems associated with the implementation of dance programs.	
438	Dance History: Primitive Through 20th Centuries	3:3:0
	The evolution of dance from prehistoric times to current social and theatrical forms.	

Health Courses (HLTH)

131	Emergency Care and Safety	3:3:0
	American Red Cross standard first aid and personal safety course. CPR certification is included.	

- 133 Personal Health** 3:3:0
A study of body organs and diseases, systems, physical and mental health concepts, knowledges and appraisal of individual health. Designed to extend the student's skills in using facts to arrive at well informed decisions concerning their own personal health.
- 137 Health & Wellness**
This course will examine acquired knowledge and attitudes pertaining to wellness/health maintenance and their effect upon individual decision-making within one's life span.
- 234 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.
- 236 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.
- 238 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.
- 336 Health in the Secondary School** 3:3:0
A critical and comprehensive examination of current trends and issues or programs at the secondary schools.
- 337 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.
- 4301 Workshop in Health** 3:3:0
A number of workshops are designed to advance the professional competence of health practitioners. For each description, the particular area of study will be indicated. May be repeated for credit when nature of workshop differs from one previously taken.
- 430 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.
- 434 Health and Human Ecology** 3:3:0
Emphasis on the human organism with the many aspects of environment and the implications in each area with regard to health. The course will cover aspects of air, land and water pollution with major sources of pollution being designated and categorized into the areas of transportation, industry, power plants, refuse disposal and recreational contributions.
- 436 Practicum in Health** 3:3:0
Observation and study of health programs and organizations.
Prerequisite: Approval of department head.
- 437 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.
- 446 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 (Kin)

- 132 Foundations** 3:3:0
Introduction to history, principles and philosophy of kinesiology; professional qualifications of leadership; special emphasis on theoretical and practical aspects.
- 216 Practicum in Driver Programs** 1:1:0
Supervised observation and provision of actual experience in behind the wheel strategies for individuals conducting driver programs.
Prerequisites: HLTH 131, Kin 238.

- 238 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.
- 231 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: Bio 143-144.
- 232 Sport in Contemporary American Society** 3:3:0
A study of various sociocultural factors in American society and their relationship to the sport experience.
- 233 Biomechanics of Exercise and Sport** 3:3:0
A study of basic principles of human mechanics with application to motor performance and sport.
- 234 Psychology of Sport** 3:3:0
Psychological perspectives of sport; personalities of sports participants and current literature related to psychological aspects of sport.
- 332 Management Skills** 3:3:0
A study of the organization and administration of programs in recreation, dance, sports, and athletics.
- 335 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.
- 336 Contemporary Programs in Secondary Schools** 3:3:0
A critical and comprehensive examination of current trends and issues of programs at the secondary level.
- 337 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.
- 339 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.
- 343 Exercise Physiology** 4:3:2
A study of the functions of the physiological systems during and after exercise.
Prerequisite: Bio 143-144, Kin 231.
- 430 Workshop** 3:3:0
A number of workshops are designed to advance the professional competence of students. For each description, the particular area of study will be indicated. May be repeated for credit when nature of workshop differs from one previously taken. Not to be used in lieu of a class.
- 430 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.
- 431 Scientific Principles of Human Performance** 3:3:0
Anatomical and physiological factors that influence optimal performance.
Prerequisites: Kin 343 and permission of instructor.
- 436 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.
- 438 Strategies in Kinesiology** 3:3:0
A study of programs and problems associated with the implementation of programs.
- 443 Motor Learning** 4:3:2
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.
- 462 Kinesiology Internship**
Supervised internship at selected public or private agencies and/or institutions.

Kinesiology Activities (KinA)

129	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.	
2201	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.	
2202	Gymnastics: Apparatus	2:1:2
	The introduction and development of skills, general rules, and strategy related to gymnastics with particular emphasis on acquisitions of skill, appreciation of safety and skill progression.	
2203	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.	
2204	Small Craft	2:1:2
	The introduction and development of skills, general rules, and strategy related to small craft with particular emphasis on acquisition of skill, appreciation of safety and skill progression.	
2205	Aerobic Fitness	2:1:2
	The introduction and development of skills, understanding of body functions and basic conditioning related to aerobic fitness with particular emphasis on acquisition of skill, appreciation of safety and skill progression.	
2206	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.	
2207	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.	
2208	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.	
2209	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 activity courses from which two semesters are to be selected for graduation are listed below. The classes are designed to enlarge the educational experience of the student by development of skills and understandings associated with aquatics, dance and sports. The activities available provide for individual student interests and personal exercise needs at various experience levels. Many students take more than two semesters of activity.

Aquatics: PEGA The aquatic sections offer beginning swimming through advanced synchronized and competitive swimming, lifesaving and water safety instruction; diving from beginning through scuba and advanced springboard.

Dance: DAN The dance sections offer ballet, jazz, and modern dance at the beginning, intermediate, advanced and performance levels: folk dance and tap dance at the beginning and intermediate levels.

Fitness: PEGA The fitness sections offer general and individualized aerobics, conditioning, jogging and strength training.

Sports: PEGA The sports sections offer instruction from beginning to competitive in badminton, baseball, basketball, fencing, golf, gymnastics, handball, martial arts, racketball, tennis, track and field, soccer, softball, and volleyball.

Aquatics Courses (PEGA)

120	Swimming	2:1:2
	Demonstration, lectures and practice in the basic techniques of swimming and water safety skills. May be repeated for credit.	
121	Swimming and Diving	2:1:2
	Demonstrations, lectures and practice in the techniques and analysis of selected swimming strokes and dives.	
220	Advanced Aquatic Sports	2:1:2
	Lecture, demonstration and practice in synchronized or competitive swimming, scuba or springboard diving. Swimming proficiency test required. May be repeated for credit as topic varies.	
225	Small Craft	2:1:2
	The course is designed to create an interest in sailing and canoeing and to develop sufficient knowledge and skill to safely enjoy the sport as a recreational activity. Swimming proficiency test required.	
226	Lifesaving	2:1:2
	Development of proficiency in lifesaving. Completion of course includes American Red Cross certification. <i>Prerequisite: Intermediate Swimming Skills.</i>	

Dance Courses (DAN)

See Division of Dance in this catalog for further information.

Activity Courses (PEGA)

Several types of activities are listed under PEGA 221, 222, 223, or 224, 227. Students should review the activities schedule for appropriate selection of activities.

221, 222, 223, 224, 227	Activity	2:1:2
	Physical activities directed toward development of lifetime skills in sports. May be repeated for credit.	

Students enrolled in physical education activity classes may be required to wear regulation costumes suggested by the instructor. Equipment for class may be provided by the student. A suit/towel rental and laundry fee, payable the first week of class, is charged for all swimming classes. Students enrolled in golf will be assessed a range fee payable the first week of class.

Athletic Training Specialization

Certification and licensing of athletic trainers is available through meeting the following requirements:

1. Teacher certification with choice of teaching fields.
2. N.A.T.A. Certification upon passing certification examination.
3. Licensed Athletic Trainer by State of Texas upon passing state board examination.

Application must be made through athletic trainer as the number of students is limited.

Driver Certification Requirements

Certification to teach driving is available as a special designation on an existing Texas Teaching Certificate. Specific course requirements are Hlth 131, Kin 238 and Kin 216.

Department of Home Economics

Department Chair: LeBland McAdams

Professor: McAdams

Associate Professors: Anderson, Hinchey

Assistant Professors: Elliff, Pemberton

Instructors: Suiter, Nichols, Brockhoeft, Marino, Connors

115 Home Economics Building

Phone 880-8663

Bachelor of Science in Home Economics

The Department of Home Economics offers undergraduate instruction leading to the Bachelor of Science degree in Home Economics. The program is designed to prepare students for a professional career, for personal development and for the responsibilities of a contributing family member and citizen.

The Home Economics program offers opportunities for specialized professional preparation in the areas of home economics, restaurant and institutional food service, dietetics, family and community service, fashion retailing and merchandising and interior design. Each of these areas of study is described on the following pages. A Master's Degree in Home Economics is also offered. Details may be found in the Graduate Bulletin.

Students may minor in Home Economics by earning 18 semester hours of credit approved by the department head. Students majoring in elementary education may use home economics as an area of specialization by completing 24 semester hours of approved courses. Some home economics courses may be taken as electives by students with other majors.

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

- A. Meet the University's core curriculum requirements described earlier in this Bulletin.
- B. Core Courses
 - HEc 111 Foundations of Home Economics.....1
 - HEc 112 Orientation to Home Economics as a Profession.....1
 - HEc 133 Visual Design3
 - HEc 137 Intimate Relationships: Marriage and the Family3
 - HEc 231 Textiles3
 - HEc 239 Introductory Nutrition3
 - HEc 330 Consumer Economics.....3
 - HEc 411 Senior Seminar.....1
- C. Professional Specialization as described in the following Home Economics programs.

Departmental Academic Policies

- 1. A grade of "C" or higher for each course in the major field (including transfer courses) and a 2.0 grade point average in all course work are required for graduation.

2. Students are expected to take courses in the sequence shown in the University Bulletin for each degree program.
 - Students must enroll in HEC 111 and HEC 112 their first year.
 - All 100/200 level HEC core courses, Freshman English and Mathematics requirements must be completed prior to enrollment in 300/400 level HEC courses.
3. Each student's use of English is subject to review up to and including the semester in which the student is scheduled to graduate. Based on the recommendations of the Director of Freshman English and the department head, additional diagnostic procedures and course work may be required before the student is recommended for graduation.
4. No student will be allowed to enroll in 400 level home economics courses until his/her grade point average is 2.0 or higher. Students are required to enroll in HEC 411 the Spring semester of the year in which they graduate.
5. Students returning from suspension, including transfer and change of major students, must prepare a performance contract in consultation with the department chair.

Recommended Programs of Study

General Home Economics

Advisor: Virginia Anderson

125 HE Bldg

The General Home Economics Program provides a broad background of preparation for the student who wishes to work as a Home Economist in one of many varied career options.

A 39 hour prescribed Home Economics curriculum provides a strong base in each of the areas of Home Economics. An 18 hour concentration provides an in-depth study in one Home Economics specialization. Eighteen hours in a related field such as Communication, Business, Art, Political Science, the natural or behavioral sciences are required.

First Year

Eng Comp	6
Math 134	3
Bio or Chem	8
Phl 130 Phil of Knowledge	3
HEC 111 Foundation in HEC	1
HEC 112 Orientation to HEC as a Profession	1
HEC 133 Visual Design	3
HEC 137 Intimate Relationships:	
Marriage and the Family	3
HEC 100/200	3
Hlth 137	3

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Second Year

Eng Lit	3
Mth or Quan Analysis	3
Pol Sc 231, 232	6
Soc Sci (Core)	3
HEC 231 Textiles	3
HEC 239 Introductory Nutrition	3
*HEC	6
HEC 2323 Entrepreneurship	3
PE (2 semesters)	2
Fine Arts (Core)	3

35

Third Year

Lit or For Lan	3
HEC 330 Con Eco	3
*HEC	9
Related Field	6
American History	6
CS 1311	3
Spc (Core)	3

33

Fourth Year

HEC 411 Senior Seminar	1
HEC 439 Resource Mgt Systems	3
HEC Internship	3
*HEC 300/400	9
HEC 338	3
Elective	3
Related Field	12

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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 300/400 level classes.

Home Economics Teacher Certification

Advisors: Barbara Brockhoeft
Dr. LeBland McAdams

100B HE Bldg
115A HE Bldg

The Home Economics Teacher Education program provides professional training for careers requiring technical knowledge of home economics and the art of teaching. Graduates of this curriculum meet the state requirement for Vocational Home Economics Certification. Students wishing to secure the Bachelor of Science degree in Home Economics and at the same time to certify for a provisional certificate for teaching vocational home economics will be required to meet the teacher education standards. Before certification can be obtained, successful completion of the Examination for Certification of Teacher of Education (EXCET) is required.

First Year

Eng Comp	6
Chm or Bio	4
Math 134	3
Math or Quan Analysis	3
HEc 111 Found of Home Economics	1
HEc 112 Orien to Home Economics	1
HEc 131 Basic Foods	3
HEc 133 Visual Design	3
HEc 137 Intimate Relationships:	
Marriage and the Family	3
P.E. Activity (1 semester)	1
Hlth 137	3
Phl 130 Philosophy of Knowledge	3
	34

Second Year

Eng Lit	3
Chm or Bio	4
PolS 231, 232	6
HEc 231 Textiles	3
HEc 232 Pattern Design	3
HEc 233 Early Child Develop	3
HEc 239 Intro Nutrition	3
HEc 330 Consumer Economics	3
Fine Arts	3
CS 1311 (or Equiv)	3
PE Activity (1 semester)	1
	35

Third Year

Eng Lit	3
Am His 231-232	6
PED 331 Found of Education	3
PED 332 Ed Psy	3
HEc 334 Advanced Child Devel	3
HEc 435 Housing & Home Furn	3
HEc 336 Institutional Foods	3
HEc 337 Professional Image	3
PED 2301	3
HEc 339 Seminar in Fam & Hum Rel	3
or	
HEc 4327 Parenting	3
	33

Fourth Year

Spc 131 Public Speaking	3
or	
Spc 334 Interviewing	3
PED 3326 Reading Strat Content Area	3
CS 1311 or Equiv	3
HEc 338 Phil & Prin Voc Home Eco	3
HEc 411 Senior Seminar	1
HEc 4308 World of Work	3
HEc 433 Equipment	3
HEc 438 Career Develop Strat	3
HEc 439 Resource Management Systems	3
HEc 462 Student Teaching in Home Economics	6
Supportive Elective	3
	34

Foods, Nutrition and Dietetics

Advisors: Connie Elliff
Amy Pemberton

102 HE Bldg
123 HE Bldg

The Foods, Nutrition and Dietetics curriculum provides professional preparation which meets the academic requirements of Plan IV of the American Dietetic Association. Graduates of this program are eligible for an accredited dietetic internship or an Approved Pre-professional Practice Program (AP4).

Foods, Nutrition and Dietetics

First Year

Phl 130 Philosophy of Knowledge	3
Eng Comp	6
Bio 143-144	8
Mth 1334	3
CS 1311 Micro-Computers I	3
HEc 111 Found of Home Econ	1
HEc 112 Orient to Home Economics as a Profession	1
HEc 131 Basic Foods	3
HEc 133 Visual Design	3
Hlth 137	3

34

Third Year

Eng Lit or Foreign Lang	3
Am His 231-232	6
Eco 233 Principles and Policies	3
HEc 330 Consumer Economics	3
HEc 332 Advanced Nutrition	3
HEc 333 Nutritional Biochemistry	3
HEc 336 Institutional Food Service	3
MM 138 Fundamentals of Supervision and Leadership	3
MM 232 Human Resource Management	3
Fine Arts	3

33

Second Year

Eng Lit	3
PolS 231-232	6
Psy 131	3
Chm 143-144	8
Bio 245 Intro Microbiology	4
HEc 137 Intimate Relationships: Marriage and the Family	3
HEc 231 Textiles	3
HEc 239 Intro Nutrition	3
PE (2 semesters)	2

35

Fourth Year

Eng 331 Technical Report Writing	3
Spc 334 Interviewing	3
Mth 234 Elem Statistics or Equivalent	3
HEc 338 Phil & Prin of Voc Home Economics	3
HEc 411 Senior Seminar	1
HEc 430 Diet Therapy	3
HEc 2313 Layout, Design for Food Service & Lodging Industry	3
HEc 2304 Resource Control for Food Service & Lodging Industry	3
Electives (upper level)	6
Soc 332 Social Psychology	3

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Family and Community Service

Advisor: Virginia Anderson

125 HE Bldg

The Family and Community Services curriculum 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.

A minor in social work including field experience, will prepare the student to work in Human Service agencies.

A minor in Child Development, including field experience with infant and early childhood programs, prepares the student to work with or administer programs for school age children in settings other than the public school.

First Year

Eng Comp	6
Math 134	3
Bio or Chem	8
HEc 111 Found of Home Economics.....	1
HEc 112 Orien to Home Economics	1
HEc 137 Intimate Relationships Marriage and the Family	3
Psy 131 Intro to Psychology (core).....	3
Phl 130 Phil of Knowledge	3
HLth 137	3
PE	1
CS 1311	3

35

Third Year

Lit or Foreign Language	3
HEc 130 Social Aspects of Clothing.....	3
Am His.....	6
HEc 330 Consumer Economics.....	3
HEc 337 Professional Image	3
HEc 334 Adv. Child Development.....	3
HEc 2314 or Upper level Nutrition	3
Minor:	
HEc 2323 Entrepreneurship & Service Management	3
HEc 4313 Prenatal and Infant Development.....	3
Ped 336 Children's Literature.....	3
or	
Swk 331 Social Work Practice I.....	3
Swk 332 Human Behavior in Social Environment...	3
Swk 333 Social Work Practice II.....	3

33

Second Year

Eng Lit	3
Mth or Quan Analysis	3
PolS 231, 232	6
Soc 131	3
HEc 133 Visual Design	3
HEc 231 Textiles	3
HEc 233 Early Childhood Devel	3
HEc 239 Introductory Nutrition	3
Fine Arts (Core).....	3
PE	1
Minor:	
Ped 2301 Foundations of Special Education	3
or	
Swk 231 Survey of the Social Welfare Institution	3

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Fourth Year

HEc 338 Philosophy and Principles of Vocational Home Economics	3
HEc 411 Senior Seminar.....	1
HEc 435 Consumer Housing.....	3
HEc 4327 Parenting	3
HEc 439 Resource Mgt Systems	3
Spc 334 Interviewing.....	3
Elective	3
HEc 339 Seminar in Family and Human Relations	3
Minor:	
HEc 4367 Internship in Home Econ.....	3
Ped 4303 Instructional Strategies for Early Childhood.....	3
HEc 4334 Administration of Programs for Young Children.....	3
or	
Swk 335 Social Work Practice with Target groups.....	3
Swk 4321 Field Experience I or Swk Elective	3
SWK 4324 Field Experience II or HEc 4367	3

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Fashion Retailing and Merchandising

Advisors: Paula Nichols
Dr. LeBland McAdams
Coleta Suiter

119 HE Bldg
115A HE Bldg
106 HE 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.

Fashion Retailing and Merchandising

First Year

Phl 130 Phil of Knowledge	3
Eng Comp	6
Math 134	3
Bio or Chem	4
Cs 1311	3
HEc 111 Found of Home Economics	1
HEc 112 Orien to Home Economics as a Profession	1
HEc 130 Social & Psychological Aspects of Clothing	3
HEc 133 Visual Design	3
HEc 137 Intimate Relationships: Marriage & Family	3
Hlth 137 Health & Wellness	3
PE Activity (1 semester)	1

34

Third Year

Lit or For Lan	3
Speech 334	3
History 233-234	3
Acc 231	3
Pol.Sci. 232	3
Mkt. 331	3
Art 135	3
HEc 2323 Entrepreneurship & Service Mgt	3
HEc 239 Introductory Nutrition	3
HEc 330 Consumer Economics	3
HEc 3306 Merchandising Products	3
HEc 337 Professional Image	3

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Second Year

Eng Lit	3
Speech 131	3
History 233 or 234	3
Bio or Chm	4
Mth or Quan Analysis	3
Pol Sc 231	3
Eco 233	3
HEc 132 Clothing Construction	3
or	
HEc 2332 Apparel Analysis and Evaluation	3
HEc 231 Textiles	3
HEc 232 Pattern Design	3
or	
HEc 331 Clothing Selection	3
HEc 234 Introduction to Fashion Retailing	3
PE Activity (1 semester)	1

35

Fourth Year

Mkt 333	3
Mm 232/Oas 434	3
Blw 331	3
300-400 Bus Elec	3
HEc 411 Senior Seminar	1
HEc 432 Family History	3
HEc 4337 Fashion Buying & Merchandising Techniques	3
HEc 434 Fashion Prod	3
HEc 436 Retail Mgt	3
HEc 439 Resource Mgt. Systems	3
HEc 4317 Field Exper	3
HEc 4367 Regional Market Centers	3

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Interior Design

Advisors: Adair Marino
Dr. Jane Hinchey

113A HE Bldg
127 HE Bldg

The Interior Design specialization provides professional training for a wide range of design problems extending from personal to public environments. The program requires a 24 hour minor in Art.

Interior Design

First Year

Eng Comp	6
Math 1334	3
HEc 111 Found of Home Economics	1
HEc 112 Orien to Home Eco as a Profession	1
HEc 133 Visual Design	3
HEc 137 Intimate Relationships: Marriage and the Family	3
Art 131 Drawing I	3
Phil 130 (Core)	3
Egr 135 Arch. Graphics	3
Art 135 (Core)	3
PE	1
Hlth 137	3

33

Second Year

Eng Lit	3
Lit or For Lang	3
Pols 231 & 232	6
Math or Quan Analysis	3
HEc 231 Textiles	3
HEc 2307 Hist Arch & Interior Design	3
HEc 2327 Contemp Arch & Interior Design	3
HEc 237 Housing, Home Furnishings, & Space Planning	3
Phy 144	4
Art 132 Drawing II	3
PE	1

35

Third Year

Acc 231 Prin Accounting	3
His 233	3
His 234	3
Lab Science	3
HEc 239 Nutrition	3
HEc 335 Fundamentals of Interior Design:	
Studio I	3
HEc Studio II	3
HEc 3327 Treatments	3
Art 3313 Illustration	3
Eco 233	3
Art 134 Design II	3

33

Fourth Year

HEc 337 Professional Image	3
HEc 411 Senior Seminar	1
HEc 4305 Studio III	3
HEc 433 Equipment	3
HEc 4347 Internship in Interior Design	3
HEc 436 Retail Mgt or	
HEc 439 Resource Mgt. Systems	3
Egr 4301 Spec Topics CAD	3
Art History	3
Art Elec. (hands on)	3
Spc 334 Interviewing	3
HEc 2323 Entrepreneurship	3
HEc 330 Con. Eco	3

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Restaurant/Institutional Food Management

Advisors: Priscilla Connors
Amy Pemberton

107A HE Bldg
123 HE Bldg

The Restaurant and Institutional Food Management program is designed to provide students with the competencies they need to succeed in and contribute to the Restaurant and Hotel industry, an industry that continues to realize a shortage of management talent resulting from a growing Travel and Tourism Industry. A bachelor's degree in RIFM will qualify the student for a wide variety of careers in what is known as the Hospitality Industry, including management positions in the following: 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 Applied Science Degree in Restaurant/Institutional Food Management will be 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 Applied Science Degree program.

First Year

Eng Comp	6
Math 1334	3
Bio or Chem	4
Phl 130	3
HEc 111 Found in HEc	1
HEc 112 Orien to HEc as	
a Profession	1
HEc 1205 Super Field Exp	2
HEc 131 Basic Foods	3
HEc 1302 Intro to Hospitality Industry	3
HEc 133 Visual Design	3
HEc 137 Intimate Relationships:	
Marriage and the Family	3
HLTH 137 Health & Wellness	3
PE Activity (1 semester)	1

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Second Year

Eng Lit	3
Bio or Chem	4
Eco 233 Prin. & Policies	3
Mth 234 Statistics or Equiv	3
HEc 1301 Sanitation & Safety	
in Food Service	3
HEc 1304 Lodging Orientation and	
Front Office Procedure	3
HEc 239 Introductory Nutrition	3
HEc 2301-2302 Quantity Food Service	
Systems Management	6
HEc 2305 Internship in RIFM	3
PE Activity (1 semester)	1

32

Third Year

Acc 231-232 Prin of Acc	6
Pol Sc 231, 232	6
American History	6
HEc 231 Textiles	3
HEc 330 Con Eco	3
HEc 1303 Purchasing for the Food & Lodging Industry	3
HEc 2313 Layout, & Design for the Food Service & Lodging Ind	3
CS 1311 Microcomputers I	3
Fine Arts	3

36

Fourth Year

Mgt 331 Prin of Mgt	3
Mkt 331 Prin of Marketing	3
Mgt 333 Personnel Mgt	3
HEc 2304 Resource Control for the Food Service & Lodging Ind	3
HEc 3304 Travel & Tourism	3
HEc 4307 Management Internship in RIFM	3
HEc 4357 Operational Analysis for Hospitality Organizations	3
HEc 411 Senior Seminar	1
Lit or Foreign Lang	3
Elective 300/400 Level	3
Spc 334 Interviewing	3
Blw 331 Bus Law	3

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Home Economics Courses (HEc)

111	Foundations of Home Economics	1:1:0
	Introduction to Home Economics as a discipline. History, root disciplines and philosophy will be explored. Registration required the first Fall semester of enrollment in a home economics program.	
112	Orientation to Home Economics as a Profession	1:1:0
	An overview of the home economics profession which includes contact with professionals in varied careers. Registration required the first Spring semester of enrollment in a home economics program.	
1205	Supervised Field Experience I	2:A:0
	Provides the students with "hands on" experience in all aspects of food service operations, and in key areas of hotel operations.	
130	Social Aspects of Clothing	3:3:0
	An interdisciplinary approach to clothing emphasizing the cultural, psychological, sociological and economical aspects of wearing apparel.	
1301	Sanitation and Safety in Food Service	3:3:0
	Study of sanitation and safety standards and procedures in food service.	
1302	Intro to the Hospitality Industry	3:3:3
	An overview of the restaurant and hotel industry from a management perspective. Topics addressed encompass opportunities existing in the tourism industry, including restaurant and hotel management, the manager's role and lifestyle, competencies required, current trends and issues, and basic service management models.	
1303	Purchasing for the Food Service and Lodging Industry	3:3:0
	The study of procedures for purchasing, handling, and storing foods and other material utilized by hospitality organizations.	
1304	Lodging Orientation and Front Office Procedure	3:3:0
	A survey of the lodging industry to include its history, growth and development, and future direction. Emphasis on front office procedures and interpersonal dynamics from reservations through the night audit. May result in an American Hotel & Motel Association certification.	
131	Basic Foods	3:2:4
	Study of food science principles and their application in the preparation of foods and food products.	
132	Clothing Construction	3:2:4
	A study of basic construction techniques for making garments of professional quality. Students learn to custom fit commercial patterns.	
133	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.	
137	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.	
138	Nutrition in Health and Disease	3:3:0
	Basic principles of nutrition in health and disease.	
2103	Restaurant and Institutional Food Management Seminar	1:1:0
	A study of current topics of interest to hospitality managers.	

- 230 Computers for Home Economics** 3:3:0
Emphasis given to the effect of computers on family, community, school and business community. Designed to introduce students to skills necessary for computer literacy.
- 2301 Quantity Food Service Systems Management I** 3:1:5
A study of and practical experience in all PRODUCTION functions associated with creating a quality dining experience for a defined market. This course is to be taken with HEC 2302. (Prerequisite: HEC 131, Corequisite: HEC 2302)
- 2302 Quantity Food Service Systems Management II** 3:1:5
A study of and practical experience in all SERVICE functions associated with creating a quality dining experience for a defined market. This course is to be taken with HEC 2301. (Prerequisite: HEC 131, Corequisite: HEC 2301)
- 2304 Resource Control for the Food Service and Lodging Industry** 3:3:0
A study of techniques utilized in controlling resources in the food service and lodging industries. (Prerequisite: Completion of Mathematics requirement or permission of the instructor.)
- 2305 Internship in Restaurant and Institutional Food Management** 3:A:0
A supervised field experience in the food service and lodging industry.
- 2307 History of Architecture and Interior Design** 3:3:0
A study of period design in architecture, interiors and furnishings from antiquity to the 20th Century.
- 2310 Food Presentation** 3:3:0
Study of artistic presentation of food items including entrees, side dishes, baked products and desserts.
- 2313 Layout, & Design for the Food Service and Lodging Industry** 3:3:0
A study of the principles of layout and design, including the selection and maintenance of related equipment, and techniques for improving productivity in a service-oriented environment. (Prerequisite: Completion of HEC 2301/2 or permission of the instructor.)
- 2314 Child Nutrition** 3:3:0
Study of nutritional needs from birth through adolescence; emphasis on menu planning for groups of children.
- 2315 Special Topics** 3:3:0
Intended to provide RIFM students with an opportunity to pursue industry related research interests or learning experiences not made available elsewhere in the curriculum.
- 231 Textiles** 3:3:0
A study of the physical and chemical properties of textiles. Emphasis on consumer selection and care of fabrics.
- 2322 Beverage Management** 3:3:0
A survey of the beverage service sector of the hospitality industry to include a descriptive review of spirits, wines, and beers, mixology, purchasing, resource control, marketing, physical plant requirements, and staffing.
- 2323 Entrepreneurship & Service Mgt** 3:3:0
An exploration of the research and models utilized by contemporary managers in effecting excellence in the output of service organizations. Designed for those especially interested in entrepreneurship, as well as, entrapreneurship.
- 2324 School Food Service** 3:3:0
Administration of school food programs; efficient use of government commodities.
- 2327 Contemporary Architecture and Interior Design** 3:3:0
A study of the classical, organic and post modern designs in architecture, interiors, and furnishings in the 20th Century.
- 232 Pattern Design** 3:2:3
The study of basic principles of flat pattern designing with emphasis on development of creative designs through the use of the flat pattern.
Prerequisite: HEC 132 or satisfactory score on the pre-test for HEC 132.
- 233 Child and Adolescent Development** 3:3:0
A study of the dynamics of growth and development of children and youth. Observation experiences required in approved child care settings.
- 2332 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.
- 234 Introduction to Fashion Retailing** 3:3:0
An introductory study of the contemporary aspects of retailing with application to fashion merchandising & retailing.
- 235 Independent Study in Restaurant and Institutional Food Management** 3:3:0
Designed to afford independent learning experiences for RIFM students. Under supervision, the student pursues the study of individual interests in the area of restaurant or lodging management.

- 237 Housing Home Furnishing and Space Planning** 3:2:4
A study based on an understanding of design in architecture and furniture, design principles, creative problem solving and financial planning related to choice of home and furnishings to meet individual needs.
Prerequisite: HEC 133.
- 239 Introductory Nutrition** 3:3:0
Study of the nutritional needs of the body and proper selection of foods to meet these needs throughout the life cycle.
- 2315 Supervised Field Experience III** 4:A:0
Minimum of 200 hours supervised field experience in food service management.
- 330 Consumer Economics** 3:3:0
Consumer principles and rational decision-making skills for coping with consumer issues affecting families and individuals.
- 3304 Travel and Tourism** 3:3:0
This course is designed to recount the history of travel, explore its future, and discuss the role of the components of Tourism. The student is given 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 Commercial Interiors: Studio II** 3:2:4
Studio experiences dealing with small to medium commercial building construction, materials, environmental controls, and interior furnishings. Group creative problem solving.
Prerequisites: HEC 3327, Art 3313 or permission of instructor
- 3306 Products Merchandising** 3:3:0
A study of textile and non-textile products. Special emphasis on housewares, furniture, accessories, home furnishings, and appliances.
- 331 Clothing Selection** 3:3:0
Consumer skills in wardrobe planning and apparel purchasing with emphasis on career dressing based on lifestyle, figure and color analysis, personality and image.
- 3315 Statistical Methods in Home Economics Research** 3:3:0
An introduction to the methods of research employed in home economics subject matter areas. Statistical concepts and techniques such as descriptive statistics, inferential statistics, correlation and regression will be emphasized.
- 332 Advanced Nutrition** 3:3:0
The advanced study of normal nutrition including digestion, absorption, and metabolism of proteins, carbohydrates, lipids, vitamins and minerals.
Prerequisites: HEC 239 or HEC 138, Bio 143-144, Chm 143-144
- 3327 Treatments of Interior Design** 3:2:3
A study of materials and technology applied to interior environments. An introduction to practices and procedures of interior design.
Prerequisite: HEC 133, 231
- 333 Nutritional Biochemistry** 3:3:0
Chemistry of the major building blocks of life: carbohydrates, lipids, amino acids and proteins, enzymes, vitamins and cofactors. Thorough coverage of the major energy-generating pathways.
Prerequisite: Chm 143 and 144.
- 334 Advanced Child Development** 3:2:3
Participation in the development of learning environments for young children. Field experiences required in approved educational settings.
Prerequisite: HEC 233.
- 335 Fundamentals of Interior Design: Studio I** 3:2:4
Visual and verbal communication as related to the interior design profession. Emphasis on presentation analysis and techniques, use of media design development, individual and/or group creative design problem solving.
Prerequisites: Egr 135, HEC 133, HEC 237.
- 336 Institutional Food Service** 3:2:3
Overview of quantity food service. Emphasis on food sanitation; menu planning; institutional equipment; purchasing, receiving, storing, issuing and serving food; preparation techniques.
Prerequisite: HEC 131.
- 337 Professional Image** 3:3:0
Basic management concepts as applied to individual and professional development. Professional behavior skills, attitude and practices that contribute to success in the business work are explored.

- 338 Philosophy and Principles of Vocational Home Economics** 3:3:0
Interpretation of home economics as a discipline concerned with quality of life for families and individuals. Provides experiential foundation for developing sound instructional programs in varied settings.
- 339 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.
- 411 Senior Seminar** 1:1:0
A reading-discussion course concerned with current issues in home economics.
- 431 Special Topics** 3:3:0
Special topics including workshops and institutes in home economics. A description of the particular area of study will appear on the printed semester schedule. May be repeated for a maximum of six semester hours when the area of study is different.
A. Clothing/Textiles/Merchandising
B. Family Relations/Child Development
C. Food/Nutrition
D. Home Economics Education
E. Housing/Home Furnishings/Interior Design
F. Home Management/Equipment/Consumer Economics
G. Hospitality Industry
- 430 Diet Therapy** 3:3:2
Principles of planning diets and nutritional support for prevention and management of selected diseases, surgery and trauma. Principles of dietary counseling are introduced. Students complete case studies and visit health care facilities.
Prerequisite: HEc 239 or HEc 138, Bio 143-144.
- 4305 Advanced Interior Design: Studio III** 3:2:4
Studio experiences analyzing, developing, and evaluating complex interior environments. Individual and/or group creative problem solving. Application of business practices and ethics in interior design.
Prerequisite: HEc 3305
- 4307 Management Internship in Restaurant and Institutional Food Management** 3:A:0
A supervised working experience in hospitality management.
Prerequisites: Completion of Mgt 331, HEC 2301/2, and HEc 2304 or permission of the instructor.)
- 4308 The World of Work Seminar** 3:2:1
A comprehensive study of competencies in home economics related occupations and careers. Supervised field experiences of at least 15 hours in selected vocational home economics settings. Attendance at a regional and/or state professional development conference for vocational home economics teachers may be required.
- 4313 Prenatal and Infant Development** 3:3:0
Study of physical, social, emotional and cognitive development from conception to age two.
- 4317 Internship in Fashion Merchandising** 3:A:0
Supervised work experience of at least 20 hours a week for eight weeks or its equivalent in sales experience and management training in a retail firm. Weekly conference and/or seminar will be required.
Prerequisite: Mkt 331, HEc 234, HEc 436, senior standing and/or consent of instructor. Advanced registration required. May be repeated with varied experiences for a maximum of six hours credit.
- 432 Fashion History** 3:3:0
A survey of the development of Western dress with emphasis on the interrelationship of clothing and society.
- 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.
- 433 Equipment** 3:3:0
Selection, use and care of basic residential equipment; adapting work centers to individual needs; includes demonstration techniques.
- 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.
- 4337 Fashion Buying and Merchandising Techniques** 3:3:0
Fundamental principles of buying techniques and procedures for successful merchandising of apparel and textiles.

- 434 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 Regional Market Centers** 3:A:0
A study of the regional market center(s) with emphasis on apparel and/or home furnishing. Field experiences provide opportunities for students to see designer workrooms, buying offices and major retail facilities. Seminars, lectures and presentations by professionals are also included. May be repeated for a maximum of six semester hours when the area of study is different.
- 4347 Internship in Interior Design** 3:A:0
Supervised work experience of at least 20 hours a week for eight weeks or its equivalent with interior designer, architect, home or office furnishings firm, specialty shop, research and restoration. Weekly seminar on objectives, practices, procedures and ethics for the professional interior designer.
Prerequisite: Senior standing and consent of the instructor. Advanced registration required. May be repeated with varied experiences for a maximum of six hours credit.
- 435 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.
- 4357 Operational Analysis for Hospitality Organizations** 3:3:0
Designed to develop and/or refine those competencies needed to solve practical management problems in the Hospitality Industry utilizing a structured approach to problem solving. Integrates principles learned in previous Liberal Arts, Business, and Hospitality courses into the decision making process.
(Prerequisites: Completion of all RIFM and Business courses or permission of the instructor.)
- 436 Retail Management** 3:3:0
Principles and methods: problems of store location and layout, sales promotion, buying, pricing, selling, personnel management, credit, and stock control.
- 4367 Field Experience** 3:A:0
Cooperative work-study arrangement between business, industry or selected governmental or private agencies and the Home Economics Department. Conferences and/or seminars with faculty coordinator are required.
Prerequisite: Senior standing, Home Economics major; advanced approval required. May be repeated with varied experiences for a maximum of six hours credit.
- 437 Individual Problems in Home Economics** 3:A:0
Designed to afford research opportunities and work experience for senior students. Under supervision, the students pursue individual interests in the profession of home economics.
Advance registration required. May be repeated with varied experience for up to six hours credit.
- 438 Career Development Strategies in Home Economics** 3:3:0
Consideration of effective strategies designed to develop and integrate essential elements for vocational home economics programs.
Prerequisites: HEc 338, HEc 4308 or consent of professor.
- 439 Resource Mgt. Systems** 3:3:0
A conceptual study of philosophies and principles of resource management. Practical application through individual and group problems.
Prerequisite: 24 hours in Home Economics or permission of instructor.
- 462 Student Teaching in Home Economics** 6:A:0
Supervised observation and teaching in a vocational home economics classroom.
Prerequisite: HEc 438. Class: six hours in an approved vocational program five days per week for eight weeks. Advanced registration required.



Dr. William E. Simon, for 28 years an engineer with the National Aeronautics and Space Administration, brings his expertise in space research to Lamar University-Beaumont.

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

Annie Sue Green, Engineering
Advisor

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Susan Wiemers, Undergraduate Advisor for
Computer Science

201B Maes Bldg.
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Degrees

Computer Science

B.S., Bachelor of Science, Computer
Science

M.S., Master of Science, Computer
Science

B.S., Bachelor of Science, Computer and
Information Science

Engineering

B.S., Bachelor of Science, Chemical
Engineering

B.S., Bachelor of Science, Industrial
Technology

B.S., Bachelor of Science, Civil
Engineering

M.E.S., Master of Engineering Science

B.S., Bachelor of Science, Electrical
Engineering

M.S., Master of Science in
Environmental Engineering

B.S., Bachelor of Science, Industrial
Engineering

M.S., Master of Science in
Environmental Studies

B.S., Bachelor of Science, Mechanical
Engineering

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, Mathematical
Sciences

B.S., Bachelor of Science

M.S., Master of Science, Mathematics

The departments in the College of Engineering are associated with their respective national honor societies which includes: 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 3.0 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 300 and 400 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	Second Semester
Eng Comp3	Eng Comp3
Mth 148 Calculus I4	Mth 149 Calculus II4
Chm 141 Chemistry4	Egr 130 Computers3
Egr 114 Engineering Graphics1	Phy 247 Physics I (3)4
Egr 111 Engineering Orientation1	Selected by Major (1) 3-4
Phil 130 Philosophy of Knowledge3	PE2
PE2	
18	19-20
Third Semester	Fourth Semester
Mth 241 Calculus III4	Selected by major (2) 6-9
Egr 234 Thermodynamics3	Egr 233 Circuits3
Phy 248 Physics II4	Egr 231 Dynamics3
Egr 230 Statics3	Mth 3401 Diff Equa & Lin Alg4
Egr 223 Engineering Economics2	
His3	
19	16-19

Notes

- (1) ChE Chm 142
 CE Hlth 137
 EE Hlth 137
 IE IE 330
 ME His 231
- (2) ChE Chm 241, ChE 334
 CE CE 232, Social Science Elective, History Elective
 EE EE 217, English Literature, Fine Arts
 IE IE 338, IE 336
 ME IE 322, CE 232
- (3) Diagnostic Placement Test required

Engineering Courses (Egr)

- 111 Introduction to Engineering** 1:1:0
 History of engineering, philosophy of engineering practice, the electronic calculator and analysis of the problems of being an engineering student.
- 114 Engineering Graphics I** 1:0:3
 Principles of orthographic projection combined with descriptive geometry to solve space problems graphically. Lettering and drafting techniques emphasized.
- 130 Introduction to Computers**
 Flow charting, digital computers, program organization, Quick BASIC, Quick BASIC programming.
- 135 Architectural Graphics for Interior Design** 3:2:2
 Designed to provide students with the basics of architecture necessary to prepare layouts, general specifications, traffic patterns, plans and elevations, and other subjects required to design modern homes, townhouses, condominiums, and general commercial facilities. Modular design will be stressed to take advantage of the standardization within the building industry.
- 223 Engineering Economics** 2:3:0
 The time value of economic resources, engineering project investment analysis, effect of taxes on engineering project decisions.
Prerequisite: Mth 148, Egr 130.
- 230 Statics** 3:3:0
 Statics of particles and rigid bodies. Use is made of basic physics, calculus and vector algebra.
Prerequisite: Physics 247.
- 231 Dynamics** 3:3:0
 Kinematics of rigid bodies, kinetics of rigid bodies, work and energy, impulse and momentum.
Prerequisite: Egr 230 or equivalent, Mth 241 or concurrent.
- 233 Circuits I** 3:3:0
 Linear network analysis. Fundamental network laws and methods. Transient response. Sinusoidal steady state analysis and response.
Prerequisite: Mth 149, Phy 248, Egr 130, Eng Composition (six hrs).
- 234 Thermodynamics** 3:3:0
 The fundamental laws of thermodynamics; properties of systems solids, gases and liquids and thermodynamic tables.
Prerequisite: Phy 247; Mth 241 or concurrent.
- 236 Career Development I** 3:3:0
 Comprehensive treatment of career-related special assignments and projects.
Prerequisite: Approval of academic dean.
- 237 Career Development II** 3:3:0
 Comprehensive treatment of career-related special assignments and projects.
Prerequisite: Egr 236.
- 330 Energy and Society** 3:3:0
 Principles and practices of energy engineering are surveyed and used as background for understanding how energy and the environment are related to the industrial, business, economic, political and public sectors of society. Designed for students not enrolled in engineering, the course may not be used for credit toward any engineering degree.
Prerequisite: Junior standing.

- 335 Computer Aided Design** 3:3:0
 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.
Prerequisite: Junior standing (admitted into a professional engineering program).
- 336 Career Development III** 3:3:0
 Comprehensive treatment of career-related special assignments and projects.
Prerequisite: Egr 237.
- 337 Career Development IV** 3:3:0
 Comprehensive treatment of career-related special assignments and projects.
Prerequisite: Egr 336.
- 4101, 4201, 4301, 4401 Special Topics** 1-4:A:0
 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.
- 421 Data Processing** 3:1:3
 A study of AM, FM and pulse width modulation for telemetry of data and use of analog and digital computers for storing and analyzing the data.
- 436 Career Development V** 3:3:0
 Comprehensive treatment of career-related special assignments and projects.
Prerequisite: Egr 337.

Department of Computer Science

Department Chair: Ronald S. King

201 Maes Building, Phone 880-8775

Professors: King, Koh, Nylin, Read

Associate Professors: Harvill, Jordan

Assistant Professor: Arndt, Foreman, Osborne, Zhang

Computing Laboratories

The computing laboratories of the Department of Computer Science are located on the first and second floors of the west wing of the Maes Building. There are five laboratories, each containing 20-24 PCs or terminals and several special purpose laboratories with specialized workstations for artificial intelligence, computer graphics, and software engineering. The department also has two lecture halls and eight classrooms for instructional purposes. All classrooms, lecture halls and laboratories are equipped with computer monitors in the ceiling that can echo what is displayed on the instructor's microcomputer/terminal located on the teacher's station. Some classrooms, labs, and lecture halls are also connected to the campus computer network and INTERNET. These laboratories are open to students seven days a week (approximately 80 hours). When not used as scheduled laboratories, all laboratories are open for use by students in Computer Science.

The department also has a cluster of three MicroVax 3300s under VMS, and a VAX DECstation 5110 with six DECwindows terminals under UNIX. In addition, students in the department have access to several SUN workstations and the University Computing Network and Library Access System which is supported by a cluster of several VAX computers under VMS.

Lamar University is a member of the Partnership for Academic Consulting and Training program offered by the University of Pittsburgh. Under this program, Lamar faculty and students have access to a CRAY YMP/832 and a Connection Machine CM-2.

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 GPA at least 3.0, 30 hours college credit, and 8 hours credit in Computer Science.

Requirements for becoming a Computer Science (CS) or Computer and Information Sciences (CIS) Major

Entering freshmen must have a combined SAT score of at least 850 or equivalent ACT test score, or rank in the upper one third of their graduating class.

Students who have already earned academic credit from another college or university should have a combined score of 850 or greater on the SAT test or rank in the upper one third of their graduating class and have at least an overall grade point average of 2.3 on all academic work, or must have completed at least 30 academic semester hours with an overall grade point average of 2.3 or better.

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, 21 hours in mathematics, 8 hours in laboratory science, 6 hours in free electives, 12 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 CS and EE. These students must take the following course list for the 12 restricted hours and the 9 elective hours: CS 3306, CS 4302, CS 4307, CS 4310, EE 4306, EE 4307, EE 439. 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.

Academic Standards of the Computer Science Department

1. No course can be counted towards the Bachelor of Science degree in Computer Science in CIS if a grade of less than a "C" is made in the course, except in an unusual case with the approval of the undergraduate advisor or the department head.
2. Students must make a grade of "C" or better in all prerequisite courses for a given course before that course may be taken. This applies to both computer science majors and non-computer science majors who desire to enroll in a computer science course.
3. Students whose GPA falls below 2.3 will be placed on **departmental probation**. A student on departmental probation whose GPA remains below 2.3 after the following long semester will be placed on **departmental suspension**.

4. Students on departmental probation may not preregister, and may not take more than 14 total hours per semester. Students under departmental suspension may not take any CS or CIS courses. If a student is placed on departmental suspension for a second time, then the suspension is permanent.
5. 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 Teacher's Certificate in Computer Science

The Computer Science courses required for a teacher's certificate are CS 1411, CS 1413, CS 2313, CIS 241, (CS 3303 or CIS 335), CS 3321, CS 3306, and (CIS 331 or CIS 332).

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.

Requirements for a Minor in Computer Science

CS 1411, CS 1413, CS 2313, CIS 241, (CS 3303 or CIS 335) and 6 additional hours taken from 300/3000 and/or 400/4000 level courses.

Bachelor of Science—Computer Science

Recommended Program of Study: 132 total hours

First Year

First Semester	
CS 1411 Principles of CS I.....	4
Eng Comp.....	3
Mth 1345 Discrete Structures.....	3
Spc 131 Public Speaking.....	3
Phil 130 Phil. of Knowledge.....	3
PE.....	2
	<hr/>
	18

Second Semester	
CS 1413 Principles of CS II.....	4
Eng Comp.....	3
Mth 148 Calculus & Anal Geo I.....	4
Fine Arts elective.....	3
Social Science elective.....	3
PE.....	2
	<hr/>
	19

Second Year

First Semester	
CS 241 File Structures/COBOL.....	4
Mth 149 Calculus & Anal Geo II.....	4
Lab Science.....	4
Eng Lit.....	3
His 231 Amer History 1763-1877.....	3
	<hr/>
	18

Second Semester	
CS 2313 Computer Org/Assembly.....	3
Mth 234/3370 Probability/Stat.....	3
Lab Science.....	4
Eng Lit/For Lan.....	3
His 232 Amer Hist 1877-Present.....	3
	<hr/>
	16

Third Year

First Semester	
CS 3303 Data Structures.....	3
Mth 233 Linear Algebra.....	3
Elective.....	3
Elective.....	3
Pols 231.....	3
	<hr/>
	15

Second Semester	
CS 4302 Intro Operating Systems.....	3
CS/CIS Elective.....	3
Mth 241 Calculus III.....	4
Hlth 137.....	3
Pols 232.....	3
	<hr/>
	16

Fourth Year

First Semester	Second Semester
CS 4307/3302.....3	CS/CIS/EE Elective.....3
CS/CIS Elective.....3	CS/CIS/EE Elective.....3
CS/CIS Elective.....3	CS/CIS/EE Elective.....3
Advanced Elective.....3	Advanced Elective.....3
Advanced Elective.....3	Advanced Elective.....3
15	15

Comments:

- At least 12 of the 18 hours of electives must be upper level (300-400) classes. The student is encouraged to use these electives to specialize in a computer related area. CS/CIS courses may be taken as academic electives.
- At least one CS/CIS elective must be taken from each of the following groups:
 Architecture/Distributed Sys: CS 3306 / CIS 332 / CS:EE 3305
 Programming Languages/AI: CS 4308 / CIS 435 / CIS 437
 Applications/Modeling: CS 4319 / CIS 434 / CS 4309
 The acceptable EE electives are: EE 4306 / EE 4307 / EE 439
- Entering students with no computer background should begin by taking CS 1311 as an academic elective.
- Lab Science must be a two semester sequence chosen from among:
 PHY 247-248 (preferred), PHY 141-142, Chm 141-142, Bio 141-142; Geo 141-142.
- The current Fine Arts electives are: Art 135, Dan 132, Hum 130, The 131.
 The current Social Science electives are: Eco 233, Psy 131, Soc 131, Ant 131, or Eco 131 & Eco 132.

Bachelor of Science - Computer and Information Sciences Program

The Computer and Information Sciences 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 37 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 12 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 Sciences

CS 1411, CS 1413, CS 2313, CIS 241, CIS 335, CIS 434, and CIS 441.

B.S. Computer and Information Sciences

Recommended Program of Study: 127 total hours

First Year

First Semester	
CS 1411 Principles of CS I	4
Eng Comp	3
Mth 1345 Discrete Math	3
Phil 130 Phil of Knowledge	3
PE	2
	<hr/> 15

Second Semester	
CS 1413 Principles of CS II	4
Eng Comp	3
Mth 148 Calculus & Anal Geo I	4
Spc 131 Public Speaking	3
PE	2
	<hr/> 16

Second Year

First Semester	
CIS 241 File Structures/COBOL	4
Mth 234 Probability/Stat	3
His 231 Amer History 1763-1877	3
Eng Lit	3
Lab Science	4
	<hr/> 17

Second Semester	
CS 2313 Computer Org/Assembly	3
Mth 233 Linear Algebra	3
His 232 Amer Hist 1877-Present	3
Eng Lit II/For Lang	3
Lab Science	4
	<hr/> 16

Third Year

First Semester	
CIS 335 Information Structures	3
Psy 131 Intro to Psychology	3
Pols 231 Intro American Gov I	3
Eco 233 Principles & Policies	3
Fine Arts elective	3
Elective	3
	<hr/> 18

Second Semester	
CIS 434 Data Base Design	3
CIS 331 Computer Architecture	3
Pols 232 Intro American Gov II	3
Acc 231 Cost Accounting	3
Hlth 137 Health & Wellness	3
	<hr/> 15

Fourth Year

First Semester	
CIS 441 Software Engineering	4
CIS 433 Multimedia Processing	3
Spc 334 Interviewing	3
Soc 332 Social Psychology	3
Elective	3
	<hr/> 16

Second Semester	
CIS 435/437 Expert Systems/AI	3
CS/CIS Elective	3
Psy 333/334 Industrial Psy	3
Elective	3
Elective	3
	<hr/> 15

Comments:

1. The student is encouraged to use these electives to specialize in a computer related area. For example, Fin 331, Mgt 331, Mkt 331, and Blw 331 would be excellent electives for students interested in working in business.
2. Entering students with no computer background should begin by taking CS 1311 as an academic elective.
3. Lab Science must be a two semester sequence chosen from among:
Phy 141-142 (preferred), Chm 141-142, Bio 141-142, Geo 141-142, Phy 247-248.
4. CS/CIS courses may be taken as academic electives.

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 (177 total hours) and suggested course sequence follows.

Bachelor of Science in Computer Science and Bachelor of Science in Electrical Engineering

First Year

Fall Semester	
Egr 111 Intro to Engineering	1
Egr 114 Engineering Graphics I.....	1
CS 1411 Principles of CS I.....	4
Eng Comp.....	3
Mth 148 Calculus & Anal Geo I.....	4
Hlth 137 Health & Wellness	3
PE.....	2
	18

Summer Semester I	
Chm 141 General Chemistry	4
Egr 230 Statics	3
	7

Spring Semester	
CS 1413 Principles of CS II.....	4
Egr 130 Intro to Computers.....	3
Eng Comp.....	3
Mth 149 Calculus & Anal Geo II.....	4
PE.....	2
	16

Summer Semester II	
Eng Lit/For Lang.....	3
Mth 3370 Statistics.....	3
	6

Second Year

Fall Semester	
Egr 234 Thermodynamics.....	3
Egr 223 Engineering Economics.....	2
CIS 241 File Structures/COBOL.....	4
Phy 247 Calculus Based Phys I.....	4
Phil 130 Phil of Knowledge.....	3
CS 2313 Computer Org/Assembly.....	3
	19

Summer Semester I	
CS/EE 3305 Logic Design.....	3
EE 331 Circuits II.....	3
	6

Spring Semester	
Egr 233 Circuits I.....	3
Egr 231 Dynamics.....	3
EE 217 Circuits Lab.....	1
Mth 241 Calculus III.....	4
CS 3303 Data Structures.....	3
Phy 248 Calculus Based Phys I.....	4
	18

Summer Semester II	
Phy 345 Waves & Modern Physics.....	4
CS 3306 Unix/C.....	3
	7

Third Year

Fall Semester	
EE 318 Electronics Lab.....	1
EE 333 Electronics I.....	3
EE 3301 Electrical Analysis.....	3
Mth 3401 Diff Eq & Linear Alg.....	3
CS 4302 Intro Operating Systems.....	3
Eng Lit.....	3
	16

Summer Semester I	
EE 337 Elect/Magnet Fields I.....	3
Fine Arts Elective.....	3
	6

Spring Semester	
EE 319 Elec Machinery Lab.....	1
EE 336 Elec Machinery/Trans.....	3
EE 3201 Digital Lab.....	2
EE 332 Circuit Design.....	3
EE 431 Electronics II.....	3
CS 4310 Computer Architecture.....	3
His 231.....	3
	18

Summer Semester II	
Spc 131 Public Speaking.....	3
PolS 231.....	3
	6

Fourth Year

Fall Semester	
EE 411 Eng Seminar II.....	1
EE 426 Projects Lab.....	2
EE 436 Control Engineering.....	3
EE 439 Computer Aided Design.....	3
EE 4306 Minicomputers.....	3
CS 4307 Compiler Writing.....	3
His 232.....	3
	18

Spring Semester	
EE 412 Elec Eng Seminar II.....	1
EE 427 Projects Lab.....	2
EE 4307 Microcomputers.....	3
EE Elective.....	3
Social Sciences Elective.....	3
PolS 232.....	3
	15

Total Hours 177

Computer Science Courses (CS)

- 130 Microcomputers and Society** 3:3:0
Study of the direct, positive, personal impact of computers by applications software: word processing, spreadsheets and database systems. Additional topics include the origins and evolution of computer languages, the architecture of the machine, the design inherent in creating useful tools, the ethical issues computers and related technologies have brought to public view. Additional programming assignments in LOGO. (A student may not receive credit for both CS 130 and CS 1311. This course may not be taken as a CS/CIS elective.)
- 1311 Microcomputers I** 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. (A student may not receive credit for both CS 130 and CS 1311. This course may not be taken as a CS/CIS elective.)
- 1411 Principles of Computer Science I** 4:3:3
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 ADA and Pascal.
Prerequisite: Mth 1345, Mth 148, or Mth 236 or concurrent.
- 1413 Principles of Computer Science II** 4:3:3
Continuation of CS 1411, 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: CS 1411 and (Mth 1345, Mth 148, or Mth 236).
- 2302 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: CS 1413, Mth 148, and Mth 233.
- 2313 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: CS 1413.
- 3101, 3201, 3301 Special Language Topics** 1/2:3:1/2/3:0
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.
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: CS 1413.
- 3303 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: CS 1413, Mth 148 and (Mth 234 or Mth 3370).
- 3305 Logical Design of Switching Systems** 3:3:0
Switching Algebra. Formulate and manipulate switching functions. Combinational networks. Flip-flops. Sequential networks. Also listed as EE 3305.
Prerequisite: CS 2313, CS 3303 and junior standing.
- 3306 Systems Programming in 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: CS 2313.
- 3310 Computer Laboratory Operations** 3:0:3
Installation of software packages and systems, use of security/protection software, macro programming, backup (full and incremental) and recovery, system upgrading, performance of daily computer operations, system monitoring and study of hardware maintenance.
Prerequisite: Student has served as volunteer operator for one semester.

- 3321 Database/Expert Systems Applications** 3:3:0
Hardware components, languages, operating systems, data file systems, utilities and software development for micro-computers.
Prerequisite: CS 1311.
- 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: (CS 130 or CS 1311) and CIS 131.
- 4104, 4201, 4301 Special Topics** 1/2/3:1/2/3:0
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: (CS 3303 or CIS 335), CS 2313, and Mth 233.
- 4306 Techniques of Information Processing and Retrieval** 3:3:0
Continuation of CS 4305. Keyword and descriptive indexing, decision tables, real time information processing and total information systems.
Prerequisite: (CS 3303 or CIS 335) and CIS 241.
- 4307 Compiler Writing** 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: CS 2313 and (CS 3303 or CIS 335).
- 4308 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: CS 2313 and (CS 3303 or CIS 335).
- 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: CS 3303 or CIS 335.
- 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: CS/EE 3305.
- 4311 Information Systems I**
An introduction to software design and development, oriented towards the software development life cycle phases. An overview of techniques for systems analysis, requirements specifications and methodologies. Methodologies include stepwise refinement, top-down design, system structure; iterative enhancement.
Prerequisite: CS 2411 and (CS 3321 or CS 3303).
- 4312 Information System II**
An overview of techniques for systems design, implementation, testing, configuration management, software quality assurance and maintenance. Methods studied include information hiding, system integration, validation and verification.
Prerequisite: CS 4311.
- 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: (CIS 335 or CS 3303), Mth 233 and 149.

- 4321 Micro-Computers** 3:3:0
Hardware components, languages, operating systems, data file systems, utilities and software development for micro-computers.
Prerequisite: Consent of Department Head.
- 4324 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.
Prerequisite: (CS 130 or CS 131) and CIS 131.

Computer Information Sciences Courses (CIS)

- 131 Introduction to Computer Information/Systems** 3:3:0
Introduction to the concepts of information, information codes, information processing, computer hardware and software required by large scale computer information systems, history of information/systems, and program/system development in a high level language.
- 241 File Processing in COBOL** 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. File Processing for sequential, relative, hashed, indexed sequential files. Coverage of B + + trees and inverted files.
Prerequisite: CS 1413.
- 331 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: CS 2313 and CIS 335.
- 332 Local Area Networks** 3:3:0
Explores the fundamental concepts concerning the technology and architecture of local networks. These include transmission media, protocols, hardware/software interface and switching method. Specific local architectures such as ETHERNET and TOKEN RING are studied in depth. OSI, INTERNET, IBM and XEROX network architectures are introduced. Future directions in the application of local network technology are presented.
Prerequisite: CS 2313.
- 335 Representation of Information** 3:3:0
The study of the attributes, statistical characteristics, meaning, and representation forms commonly utilized in modern information models. Logical, network, procedural, and frame-based representation schemes. Abstract data types, interactions between abstraction and specification, and abstraction facilities in modern programming languages. Data structures will be employed. Programming assignments in a modular and/or an object oriented language.
Prerequisite: CS 1413, and a Probability & Statistics Course (Mth 234/Mth 3370/Bac 331/Psy 241).
- 432 Data Communications and Computer Networks** 3:3:0
Study of problems and limitations associated with interconnecting computers by communication networks. OSI reference model, architecture of circuits, message and packet switching networks, network topology, routing, flow control, capacity assignment, protocols, coding and multiplexing.
Prerequisite: CIS 331 or CS/EE 3305.
- 433 Multi-media 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 (X-windows). Definition, examples, application, review of major implementations, and architecture of hypertext systems. Voice technology: synthesis, recognition and response. Student projects.
Prerequisite: CS 2313 and (CIS 335 or CS 3303).
- 434 Data Base 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: CIS 241, (CIS 335 or CS 3303).

- 435 Applications of Expert Systems** 3:3:0
Theory and programming of expert systems. Introduction to expert systems. Introduction to a particular expert system, pattern matching, control techniques, efficiency in rule-based language, and expert system examples. A student term project is assigned.
Prerequisite: CS 3303 or CIS 335.
- 437 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: CS 3303 or CIS 335.
- 441 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: CIS 434 or CS 3321 and senior standing.

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, Walker, Yaws, Li

Associate Professors: Chen, Ho

Adjunct Professors: Wing

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

Recommended Program of Study

First and Second Year (See Engineering Core Program, p. 219)

Third Year +

Che 333 - Thermo II	3-0-3	Che 332 - Heat Transfer	3-0-3
Che/ME 3311-Mom Trans	3-0-3	Che 441 - Kinetics**	3-3-4
*Che 437 - Computer	3-0-3	Pols 232	3-0-3
Pols 231	3-0-3	Chm 432 - Physical	3-0-3
Chm 341 - Organic I	3-4-4	Chm 342 - Organic II	3-4-4
		Soc Sci Elect	3-0-3
	15-4-16		18-7-20

Fourth Year

Che 442 - Mass Transfer	3-3-4	Che 433 - Proc Cont	3-0-3
#Che 431 - Lab	1-6-3	Chm elective (1)	1-4-2
Che 436 - Design I	3-0-3	Che 434 - Design II	1-6-3
#Che 414 - Seminar	1-0-1	Che 435 - Adv Anal	3-0-3
Fine Arts	3-0-3	Am Hist	3-0-3
Eng - Lit	3-0-3	Hlth 137	3-0-3
	15-6-17	Eng-Lit	3-0-3
			17-10-20

(1) Approval of Department Head

* These courses are offered during both Fall and Spring Semester

** These courses are offered during the Summer Session

+ Completion of Che & Chm courses required before registration for Fourth Year Che courses

Extensive Oral Communications Included

Chemical Engineering Courses (ChE)

331	Momentum Transfer	3:3:0
	Fluid-flow concepts are presented through the derivation of the basic equations of continuity, energy and momentum. Engineering aspects of flow measurement, pressure-drop calculations and pumping requirements are considered. Same as ME 3311. Che 3311 and ME 3311 may not both be counted for credit.	
	<i>Prerequisite:</i> Egr 234, ChE 334.	
332	Heat Transfer	3:3:0
	Principles of conduction, convection and radiation, and their application to the design of heat transfer equipment and systems.	
	<i>Prerequisite:</i> ChE 3311, ChE 333.	
333	Thermodynamics	3:3:0
	Application of the First and Second Laws to chemical processes. Thermodynamic properties of pure fluids and mixtures. Physical equilibrium.	
	<i>Prerequisite:</i> ChE 334, Egr 234, Chm 341 or concurrent, Chm 241 or concurrent.	
334	Process Analysis	3:3:0
	Application of mathematics, physics and chemistry to the solution of problems in industrial chemistry. Material and energy balance calculations on processes undergoing physical and chemical changes.	
	<i>Prerequisite:</i> Egr 234 or concurrent.	
4111	Seminar	1:1:0
	Oral presentation of advanced topics or research work in chemical engineering.	
414	Seminar	1:1:0
	Oral and written presentation of selected topics in chemical engineering from recent technical publications.	
	<i>Prerequisite:</i> Senior standing in Chemical Engineering.	
422	Laboratory II	2:0:6
	A continuation of ChE 431. Intensive experimental work in one or more areas studied in ChE 431. May be taken on an individual instruction basis.	
	<i>Prerequisite:</i> ChE 431.	

431	Laboratory I	3:1:6
	Experiments in heat transfer, mass transfer, fluid flow, reaction kinetics and thermodynamics. <i>Prerequisite: ChE 442 or concurrent.</i>	
433	Process Control	3:3:0
	Selection of equipment to measure and control process variable. Analysis of process response to variations in process parameters. <i>Prerequisite: ChE 437, 441, 442, Mth 3401.</i>	
434	Plant Design II	3:1:6
	A continuation of ChE 436, with emphasis on a major design project. <i>Prerequisite: ChE 436.</i>	
435	Advanced Analysis	3:3:0
	Development of mathematical equations for chemical engineering applications. Solution of ordinary and partial differential equations. <i>Prerequisite: ChE 333, 3311, 332, 437, 441, Mth 3401.</i>	
436	Plant Design I	3:3:0
	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: ChE 441: ChE 442 or concurrent.</i>	
437	Computer Applications	3:3:0
	Use of the digital computer in performing process calculations. Advanced techniques of FORTRAN programming. <i>Prerequisite: Egr 130, ChE 334, ChE 333 or concurrent.</i>	
438	Introductory Petroleum Engineering	3:3:0
	The modern techniques of producing oil will be reviewed. Drilling operations, primarily and secondary recovery operations, methods of evaluation, production rate potential and reserve, as well as other aspects of reservoir engineering will be studied. <i>Prerequisite: Senior/graduate standing.</i>	
441	Reaction Kinetics	4:3:3
	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: Mth 3401, Chm 241, ChE 332 or concurrent, ChE 333 or concurrent, Chm 342 or concurrent, Chm 432 or concurrent.</i>	
442	Mass Transfer	4:3:3
	Principles of diffusion. Simultaneous mass, energy and momentum transfer. Analysis of absorption, extraction and distillation processes. <i>Prerequisite: ChE 333, 332, Chm 241, 341, 342, 432.</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

Hazardous Waste Research Professor: Cawley

Professors: Koehn, Mantz, Morgan, Rogers

Associate Professor: Daniali

Adjunct: Fischer, Mittra

Laboratory Technician: Mohtashami

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 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. 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 State Board of Registration for Professional Engineers.

Recommended Program of Study

First and Second Years (See Engineering Core Program, p. 219)

Third Year

First Semester		Second Semester	
CE 220 Surveying.....	2	CE 320 Materials Engineering.....	2
CE 331 Environmental Science.....	3	CE 336 Hydrology of the Environment.....	3
CE 334 Structural Mechanics.....	3	CE 337 Environmental Engineering Systems I.....	3
CE 335 Hydraulics I.....	3	CE 339 Geotechnical Engineering I.....	3
Elective Statistics.....	3	CE 439 Structural Steel Design.....	3
Pol Sc.....	3	Pol Sc.....	3
	17		17

Fourth Year

First Semester		Second Semester	
CE 4212 Civil Engr Systems Design Project.....	2	CE 411 Seminar.....	1
CE 432 Management, Planning, Scheduling and Estimating.....	3	CE 4290 Civil Engineering Systems II.....	2
CE 434 Geotechnical Engineering II.....	3	CE 431 Hydraulics II.....	3
CE 438 Reinforced Concrete Design.....	3	CE Elective(a).....	3
CE Elective(a).....	3	Elective Science(a).....	4
Elective Literature.....	3	Elective Fine Arts(a).....	3
	17	Elective Literature(c).....	3
			19

Notes:

- All electives must be approved by the Chair of the C.E. Dept. CE Electives must include design content of an amount to satisfy ABET criteria.
- It is vital that CE 232 and Egr 231 be completed before the start of the third year.
- 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 (CE)

- 220 Surveying** 2:1:3
 Introduction to the basic principles of surveying. Use of equipment for measurement of horizontal and vertical distances and angles. Field practice and calculations associated with design and layout of highway curves including vertical and horizontal alignments. Transition spirals. Error Analysis. Computer utilized in calculations.
Prerequisite: Egr 130, 114.
Corequisite: Mth 1335.
- 232 Mechanics of Solids** 3:3:0
 Effect of loads on deformable bodies. Uniaxial and biaxial stress-strain relationships. Indeterminate systems. Study of stresses due to axial, torsional and bending effects. Bucking of columns. Introduction to design.
Prerequisite: Egr 230.
- 320 Materials Engineering** 2:1:3
 Principles/techniques for investigating properties and behavior of engineering members and materials using experimental methods. Consideration of design parameters.
Prerequisite: CE 232.
- 3290 Civil Engineering Systems I** 2:2:0
 Principles of systems analysis utilized for solving civil engineering problems. Application of probability, statistics, and regression analysis to the engineering design process. Specific examples in civil engineering taken under consideration. Course title and description may vary when taught as a CE Elective.
Prerequisite: Mth 241.
Corequisite: CE 232.
- 331 Environmental Science** 3:2:3
 Introduction to the hydrologic cycle and the chemistry and microbiology of the natural aquatic environment. Emphasis is on the physical, chemical and biological 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.
Prerequisite: Chm 141.
- 334 Structural Mechanics** 3:2:3
 Analysis of loadings for bridges and buildings. Effects of moving loads. Influence lines. Shear and moment diagrams. Analysis of indeterminate structures. Introduction to the structural design investigation of frames, girders and bents.
Corequisite: Mth 3401.
Prerequisite: CE 232.
- 335 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: Egr 231.
- 336 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: Egr 231.
- 337 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: CE 331, CE 335.
- 339 Geotechnical Engineering I** 3:2:3
 Basic principles of soil behavior under load. Soil properties and classification. Study of hydraulics as applied to soil mechanics.
Prerequisite: Egr 114. Corequisite: CE 232, Egr 231.
- 411 Seminar** 1:0:2
 Discussion of ethical, professional, and technical topics related to the practice of civil engineering. Presentation of oral and written reports.
Prerequisite: Senior standing.
- 420 Photogrammetry and Mapping** 2:0:6
 Principles of aerial photography applied to map making, route locations and ground control. Introduction to use of photogrammetry equipment, including stereoscopes and plotters.
Prerequisite: CE 220.

- 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: CE 335, CE 331. Corequisite: CE 438, CE 439.
- 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: CE 3290 or Statistics. Corequisite: CE 334, CE 337, CE 339.
- 430 Indeterminate Structures** 3:2:3
Basic principles of structural analysis and design based upon the requirements of equilibrium and continuity. Matrix methods and the application of strain energy, slope deflection and moment distribution procedures for the analysis of frames, trusses and beams. Digital computer methods utilized. Course title and description may vary when taught as a CE Elective.
Prerequisite: CE 334.
- 431 Hydraulics II** 3:2:3
Continuation of CE 335-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: CE 335.
- 4310 Soil-Structure Interaction** 3:2:3
Analysis of the mechanical behavior of soil-structure systems under the effect of static and dynamic loading, impact and stress wave propagation, design applications to shallow and deep substructures, and other underground systems. Computer techniques are employed. Course title and description may vary when taught as a CE Elective.
Prerequisite: CE 434.
- 432 Management, Planning, Scheduling, and Estimating** 3:2:3
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.
- 433 Environmental Health Engineering** 3:2:3
Problems of public health in rural and industrial centers with water, housing, heating, cooling, ventilation, milk, food, insects and rodents. Biostatistics and public health laws, ordinances and regulations.
Prerequisite: Bio 243 or CE 331.
- 434 Geotechnical Engineering II** 3:2:3
Compressibility and strength characteristics. Stress distribution. Shallow and deep foundations, earth pressure theories, retaining walls, and slope stability. Application of design considerations.
Prerequisite: CE 339.
Corequisite: CE 438.
- 435 Environmental Engineering Systems II** 3:3:0
Hydraulic design of municipal utilities including storm water and waste water collection systems, water distribution networks, and treatment plant facilities. Course title and description may vary when taught as a CE Elective.
Prerequisite: CE 337.
- 437 Transportation Engineering** 3:3:0
Study 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.
- 438 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: CE 334.
- 439 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: CE 334.

Department of Electrical Engineering

Program accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

Department Chair: Floyd M. Crum

2006 Cherry Building, Phone 880-8746

Professors: Bean, Cooke, Crum, Watt

Associate Professors: Carlin

Assistant Professor: Reddy

Laboratory Technician: Ingram

For many years the use of electricity has played a major role in the advancement of societies throughout the world. From megawatts of electrical power to microprocessors not as large as the pupil of the eye, the world of tomorrow will depend even more heavily than today upon the use of electricity.

Men and women who are electrical engineers will play vital roles in key areas affecting everyone's life by working in such areas as microprocessor based instrumentation systems, advanced computer systems—both large scale and personal size, medical instrumentation and computer-aided diagnostic and information systems, automatic control systems for mass transit, food production and process control; power generation and distribution systems. If these challenges sound worthwhile and you want to contribute, an Electrical Engineering degree will provide you that opportunity.

The Department of Electrical Engineering will permit transfer of up to 72 semester hours from a junior college or a community college if appropriate courses were taken at the junior or community college level. The appropriate list of courses for a particular college is available upon request.

Bachelor of Science - Electrical Engineering

Recommended Program of Study

First and Second Year (See Engineering Core Program, p. 219)

Third Year

First Semester	Second Semester
EE 318 Electronics Lab1	EE 319 Electric Machinery Lab1
EE 331 Circuit II3	EE 3201 Digital Lab2
EE 333 Electronics I3	EE 332 Circuit Design3
EE 3301 Electrical Anal3	EE 336 Electrical Mach/Transf3
EE 3305 Log Dsgn of Switch Sys3	EE 337 Electromagnetic Fields I3
Phy 345 Modern Physics4	EE 431 Electronics II3
	Am Hist3
17	18

Fourth Year

First Semester	Second Semester
EE 411 Elect Engr Seminar I1	EE 412 Elect Engr Seminar II1
EE 426 Project Lab2	EE 427 Project Lab2
EE 436 Control Engr3	*EE Electives (2)6
EE 439 Computer Aided Dsgn3	Hist3
*EE Elective (1)3	Pols 2323
Soc Elective3	
Pols 2313	
18	15

* Total elective design content must be a minimum of three hours.

Electrical Engineering Courses (EE)

- | | | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 217 | Circuits Laboratory
Experience in the use of elementary electrical equipment and elements, including the oscilloscope.
<i>Corequisite: Egr 233.</i> | 1:0:3 |
| 318 | Electronics Laboratory
Design of power supplies and amplifiers using diodes, transistors, thyristors and linear integrated circuits.
<i>Prerequisite: EE 217.</i>
<i>Corequisite: EE 333.</i> | 1:0:3 |
| 319 | Electric Machinery Laboratory
Three phase circuits, DC and AC motors and generators; transformers.
<i>Prerequisite: EE 217.</i>
<i>Corequisite: EE 336.</i> | 1:0:3 |
| 3201 | Digital Laboratory
Testing and design of digital circuits; introduction to small computer hardware and software.
<i>Prerequisite: EE 217 and EE 3305 or CS 3305.</i> | 2:1:3 |
| 3301 | Electrical Analysis
Application of the digital computer to analysis and design of electrical systems using numerical methods.
<i>Prerequisite: Mth 3401, Egr 233, 130.</i> | 3:3:0 |
| 3305 | Logical Design of Switching Systems
Switching algebra. Formulate and manipulate switching functions. Combinational networks. Flip-flops. Sequential networks.
<i>Prerequisite: Junior standing.</i> | 3:3:0 |
| 331 | Circuits II
Power calculations, polyphase circuits. Frequency response, resonance, magnetically coupled circuits, two port networks. Fourier series, Fourier and Laplace transform application.
<i>Prerequisite: Egr 233.</i>
<i>Corequisite: Mth 331 or 3401.</i> | 3:3:0 |
| 332 | Circuit Design
Circuit design concepts using frequency domain. Pole-zero characterization of system response. Synthesis of passive and active networks.
<i>Prerequisite: EE 331.</i> | 3:3:0 |
| 333 | Electronics I
An analysis of both digital and analog signal processing methods by the use of solid state electronic devices, Bipolar, FET and linear integrated circuits.
<i>Prerequisite: Egr 233.</i>
<i>Corequisite: EE 318 for EE students.</i> | 3:3:0 |
| 336 | Electric Machinery/Transformers
A study of transformers and conventional electric machinery. DC motors and generators, synchronous machines and induction motors.
<i>Prerequisite: EE 331.</i>
<i>Corequisite: EE 319.</i> | 3:3:0 |
| 337 | Electromagnetic Fields I
Vector analysis, coordinate systems, static electric fields, electric potential, dielectric, conductors, capacitance, current, static magnetic fields, magnetic materials, magnetic potential, inductance, electromagnetic forces. Maxwell's equations, time-varying fields, plane waves.
<i>Prerequisite: Mth 331, Phy 248, Egr 233.</i> | 3:3:0 |
| 4101 | Individual Study
Independent study under the direction of a faculty member. May be repeated for credit. | 1:1:0 |
| 411 | Electrical Engineering Seminar I
A study of the literature of electrical and related engineering fields; preparation and presentation of papers on electrical subjects.
<i>Pre or Corequisite: EE 426 or 427.</i> | 1:1:0 |
| 412 | Electrical Engineering Seminar II
Preparation, presentation and discussion of material on the engineering profession, the interface between technology and society, and new areas of engineering involvement.
<i>Pre or Corequisite: EE 426 or 427.</i> | 1:1:0 |

- 426 Projects Laboratory** 2:1:3
Senior design projects with hardware implementation and testing. Preparation of project proposals, formal report and presentation.
Prerequisite: EE 217, 318, 319, 3201, 431.
- 427 Projects Laboratory** 2:1:3
Senior design projects with hardware implementation and testing. Preparation of project proposals, formal report and presentation.
Prerequisite: EE 217, 318, 319, 3201, 431.
- 4302 Communication Theory** 3:3:0
Principles of modulation; random signal theory and network analysis; basic information theory; analysis of noise. One hour design content.
Prerequisite: EE 332.
- 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.
Prerequisite: EE 331, 431.
- 4306 Minicomputers** 3:3:0
Introduction to assembly language programming and small computer organization. 1-1/2 hours design content.
Prerequisite: EE/CS 3305.
- 4307 Microcomputers** 3:3:0
Microcomputer organization, peripheral devices, systems software for small computers. 1-1/2 hours design content.
Prerequisite: EE 4306 or CS 3302.
- 4309 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: EE 336, 337.
- 431 Electronics II** 3:3:0
In-depth study of semiconductor device characteristics, BJT's FET's, SSI logic and linear integrated circuits.
Prerequisite: EE 333, 3305, 331.
- 4311 Introduction to Nuclear Power** 3:3:0
Nuclear reaction mechanics; radioactivity; neutron reactions; fission products, decay; reactor kinetics, systems; radiation, dose limits, shielding. One hour design content.
Prerequisite: Egr 234 and Phy 335.
- 432 Electronics III** 3:3:0
Analog systems with semiconductor elements. Frequency response, feedback and feed forward amplifier design, power electronic devices with regulated power supplies. Two hours design content.
Prerequisite: EE 431.
- 436 Control Engineering** 3:3:0
Transfer functions; state variables; time response; frequency response and stability.
Prerequisite: EE 332, 3301.
- 438 Instrumentation** 3:3:0
Unified methods for the design of signal and 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: EE 333, 3305.
- 439 Computer Aided Design** 3:3:0
An introduction to computer aided design and experience with design software. A realistic programming project concerning design will be assigned. Intensive programming efforts and fluency in Fortran, C, or Pascal will be required.
Prerequisite: Junior standing.

Department of Industrial Engineering

Department Chair: Victor Zaloom

2014 Cherry Building, Phone 880-8804

Professors: Gates, Zaloom

Associate Professor: Thomas, Chu

Visiting Assistant Professor: Tosirisuk

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.

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 solution.

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.

Women find special opportunities in industrial engineering. 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.

The Department of Industrial Engineering at Lamar University is one of the leaders in integrating computer-aided design and computer-aided manufacturing into the curriculum.

Bachelor of Science - Industrial Engineering

Recommended Program of Study

First and Second Year (See Engineering Core Program, p. 219)

Third Year

First Semester	Second Semester
IE 322 Introduction to Manufacturing.....2	Chm 1424
IE 4303 Fin Anal & Des3	IE 432 Statistical Decision Making for Engineers.....3
Hlth 1373	Eng Lit (a)3
Soc Sci (b)3	POLS 2323
POLS 2313	Am Hist 2323
IE 4321 Data Analysis.....3	
17	16

Fourth Year

First Semester	Second Semester
IE 435 Production and Inventory Control.....3	IE 436 Design of Production Facilities.....3
IE 430 Quality Control.....3	IE 437 Operations Research.....3
IE 434 Materials Science and Manufacturing Processes.....3	IE 431 Computer Aided Manuf.3
ME 3311 Momentum Transfer3	IE 4316 Industrial and Product Safety.....3
IE 4315 Organization and Management.....3	Fine Arts (c)3
Egr 335 CAD.....3	
18	15

Total Semester Hours 135

Notes:

(a) Any course in Sophomore Literature (Eng 2311-2319) will satisfy this requirement.

(b) Eco 131 and 132, Soc 131, Psy 131 or Ant 131.

(c) Hum 130, Mus 130 or Dan 132.

(d) Physical Education, Engineering or Mathematics may not be elected. Approval of advisor required.

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 College of Technical Arts. Students entering Lamar as freshmen will be advised on their technology major by Technical Arts. This degree requires successful completion of Lamar University's 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 45 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. Six hours of Freshman English Composition and Mth 1334 and Mth 1341 or higher level math courses must be included in the 45 semester hour minimum.

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

Recommended Program of Study

First Year

First Semester		Second Semester	
Technology Courses	12	Technology Courses	12
Eng Comp	3	PE	1 or 2
PE	1 or 2	Phl 130	3
	<u>16-17</u>		<u>16-17</u>

Second Year

First Semester		Second Semester	
Technology Courses	12	Technology Courses	12
Eng Comp	3	Technology Course or Elective	3
IE 3301 Survey of IE	3	Hlth 137	3
	<u>18</u>		<u>18</u>

Third Year

First Semester		Second Semester	
Mth 1334	3	Mth 1341 Analysis	3
IE 311 Seminar	1	Lab Sc I	4
POLS 231	3	POLS 232	3
Soc. Sci. Elect	3	IE 438 Work Measurement	3
IE 3311 Machining Processes	1	IE 336 Appli in IE	3
IE Elective I (a)	3		
	<u>16</u>		<u>16</u>

Fourth Year

First Semester

Speech	3
IE 333 Engineering Economy.....	3
IE 339 Materials Science and Manufacturing Processes.....	3
Am His.....	3
IE 4351 Production and Inventory Systems.....	3
Eng Lit (b).....	3

18

Second Semester

Am His.....	3
IE 4301 Survey of Quality Control.....	3
IE 4315 Organization and Management.....	3
Fine Arts I.....	3
Lab Science II.....	4

16

Total Semester Hours 131-133

Notes:

(a) A 300 or 400 level IE course, from approved list.

(b) Any of Eng 2311-Eng 2316 will satisfy this requirement. Students who have completed one year of foreign language in high school take one literature course.

Industrial Engineering Courses (IE)

322	Introduction to Manufacturing	2:1:3
	Production planning, programming and operation of metal cutting machinery.	
311	IE Seminar I	1:1:0
	Identifying and analyzing Industrial Engineering problems.	
	<i>Corequisite: IE 330, admission to IE department.</i>	
330	Industrial Engineering	3:3:0
	Introduction to Industrial Engineering, its tools and techniques.	
3301	Survey of Industrial Engineering	3:3:0
	The origins and evolution of Industrial Engineering. The problem solving techniques available and their applications.	
	<i>Not open to students majoring in engineering.</i>	
3311	Machining Processes	3:2:3
	Theory and practice of machine tool applications, safety quality and economics. Introduction to digital programming of machine tools and processes.	
	<i>Not open to students majoring in engineering.</i>	
	<i>Prerequisite: BASIC Programming, Junior standing.</i>	
333	Engineering Economy	3:3:0
	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: Mth 1341.</i>	
335	Accounting for Engineers	3:3:0
	Introduction to principles of bookkeeping and cost accounting. Use of cost records to help the engineer/executive make decisions.	
336	Microcomputer Applications in Industrial Engineering	
	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: IE 330 or 3301.</i>	
338	Work Design	3:2:3
	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: Mth 3370 or IE 332.</i>	
339	Manufacturing Materials and Process	3:3:0
	Functional and economic selection of materials and processes in manufacturing.	
	<i>Not open to students majoring in engineering.</i>	
	<i>Prerequisite: Chm 143 or equivalent, IE 3311.</i>	
430	Quality Assurance and Control	3:3:0
	Assurance that products perform as intended. Reducing or eliminating defective output.	
	<i>Prerequisite: Mth 3370 or IE 332.</i>	

- 4301 Quality Control Applications** 3:3:0
 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.
Not open to students majoring in engineering.
- 4303 Financial Analysis and Design** 3:3:0
 A comprehensive analysis of accounting and financial reports, inventory control records, description and income taxes, and capital budgeting. Design of financial systems under risk and uncertainty. Computer modeling of financial systems.
- 431 Computer Aided Manufacturing** 3:3:0
 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.
Prerequisite: BASIC programming, IE 322 or equivalent, and Senior standing.
- 4315 Organization and Management** 3:3:0
 The theory of organization and management. How the executive functions to achieve the organization's goals.
Prerequisite: Junior standing.
- 4316 Industrial and Product Safety** 3:3:0
 Loss control engineering. Mandatory and voluntary standards. Product liability.
Prerequisite: Senior standing.
- 4321 Engineering Data Analysis** 3:3:0
 Application of probability and statistics to engineering problems. Collection and presentation of engineering data. Fundamentals of commonly applied discrete and continuous probability functions and their engineering applications.
Prerequisite: Mth 241.
- 432 Statistical Decision Making for Engineers** 3:3:0
 Analysis of data to help the engineer/executive make decisions. Evaluations of performance claims.
Mth 3370 or IE 4321. Junior standing in engineering.
- 434 Materials Science and Manufacturing Processes** 3:3:0
 Basic principles underlying the behavior of engineering materials and methods of processing these materials.
Prerequisite: IE 322, Chm 141 or equivalent.
- 435 Production and Inventory Control** 3:3:0
 Techniques for planning and controlling production and inventories. Modern materials requirements planning.
Prerequisite: Mth 3370 or IE 4321, IE 330.
- 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: IE 336.
- 436 Design of Production Facilities** 3:1:6
 Use of the principles from other IE courses to determine the location, layout, needed equipment and facilities and other factors in facilities design.
Prerequisite: IE 322, 330, 4303, 338, 434 and engineering core.
- 437 Operations Research** 3:3:0
 An introduction to the construction and mathematical models of organizational systems to aid executives in making decisions.
Prerequisite: Mth 3370 or IE 4321, Egr 223 and IE 4303.
- 438 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: William E. Simon

2008 Cherry Building, Phone 880-8769

Professors: Mei, Simon, Young

Associate Professor: Corder

Assistant Professors: Nguyen, Orth

Adjunct Instructors: Craigie

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

Recommended Program of Study

First and Second Year (See Engineering Core Program, p. 219)

Third Year

First Semester	Second Semester
Eng Lit3	ME 321 Measurements Lab2
ME 330 Mech Design I3	ME 331 Heat Transfer3
ME 331 Fluid Mech3	ME 332 Mech Design II3
ME 338 Thermo II3	ME 334 Dyn Sys Anal3
Fine Arts3	EE 333 Electronics3
ME 335 CAE3	POLS3
18	17

Fourth Year

First Semester	Second Semester
ME 421 Int Sys Des2	ME 4316 Engr Des Project3
ME 4313 Thermal Sys Des3	ME 4317 Engr Sys Analysis3
ME 4319 Materials Science3	*ME Elective3
ME 4323 Mech Des III3	Social Science3
POLS3	Hlth 1373
*ME Elective3	Approved Mth or Science3
ME 411 Seminar1	
18	18

*At least three hours must be an ME design elective course.

Mechanical Engineering Courses (ME)

- 321 Measurements Laboratory** 2:1:3
Theory and application of measurements with various instruments are treated. Experiments involving pressure, temperature, speed, power, torque, frequency, and flow measurements are conducted.
Prerequisite: ME 3311 and ME 338 or concurrent with both.
- 330 Mechanical Design I** 3:3:0
Introduction to the concepts associated with the design of machine elements. Kinematics in the analysis of mechanisms: centroids, velocities and accelerations in plane mechanisms; rolling and sliding in belts, chains and cams; gears in plane or epicyclic trains.
Prerequisite: Egr 231 and CE 232 or concurrent with instructor's approval.
- 331 Heat Transfer** 3:3:0
Theory of conduction and potential flow, radiation and convection with engineering techniques and applications.
Prerequisite: Mth 3401 and ME 3311 or parallel.
- 3311 Fluid Mechanics** 3:3:0
Fluid-flow concepts are presented through the derivation of the basic equations of continuity, energy and momentum. Engineering aspects of flow measurement, pressure-drop calculations and pumping requirements are considered.
Prerequisites: Egr 231, 234, CE 232 and Mth 3401 or with instructor's approval.
- 332 Mechanical Design II** 3:2:3
The design of machine components considering loads, stress, deflection and stiffness, material properties; failure theories; designing for static strength and fatigue strength. A written and oral presentation of the conceptual design of a machine to meet a specified societal need is required.
Prerequisites: CE 232, ME 330, and ME 335 or concurrent with instructor's approval.
- 334 Dynamic Systems 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.
Prerequisites: ME 3311 or concurrent with instructor's approval.
- 335 Computer-Aided Engineering (CAE)** 3:2:3
Introduction to MSC/NASTRAN is provided. Overview of finite element analysis and its application in mechanical engineering. Course focuses on the modeling aspects of mechanical systems simulation for static stress and deflection analysis.
Prerequisites: Egr 231 and CE 232 or concurrent with instructor's approval.
- 338 Thermodynamics II** 3:3:0
A continuation of Egr 234 including vapor and gas cycles, mixtures of gases, thermodynamics of chemical systems and psychrometrics.
Prerequisite: Mth 3401 and Egr 234.
- 411 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.
- 421 Integrated Systems Design** 2:1:3
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 encouraged. 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: ME 334 and Senior standing.
- 4311 Controls Engineering** 3:3:0
The theory of integrated automatic controls systems with application to combustion, temperature, pressure, flow and humidity control. Industrial control systems are considered.
Prerequisite: ME 331 and 334.
- 4312 Gas Dynamics** 3:3:0
Fundamentals of one-dimensional compressible flow. An introduction to multidimensional wave phenomena with various applications.
Prerequisite: ME 3311 and ME 338.

- 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: ME 331, 334, 338
- 4314 Fundamentals of Physical Metallurgy** 3:3:0
Fundamental and scientific principles of physical metallurgy to include nucleation theory of solidification, behavior of single and polycrystalline solids under stress and heat treatment plastic deformation and recrystallization and basic principles of X-ray diffraction used in physical metallurgy.
Prerequisite: ME 4319 or concurrent.
- 4315 Thermodynamics III** 3:3:0
Topics in applied thermodynamics selected from any of the following: Psychrometrics, combustion, equilibrium reactions, compressible flow, thermodynamic machinery and optimization of power plant and utility systems using availability analysis and/or linear programming. May be repeated for credit with consent of instructor.
Prerequisite: ME 334, ME 338.
- 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: ME 421, and senior standing.
- 4317 Engineering Analysis II** 3:3:0
A continuing of ME 334 with some emphasis being placed on analog methods and computer techniques in solving engineering problems.
Prerequisite: ME 334.
- 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: CE 232.
- 432 Mechanical Vibrations** 3:3:0
The theory of vibrating systems, including kinematics and vibrations, harmonic and non-harmonic, single and multiple degrees of freedom; free and forced vibrations, with and without damping. Applications to crank and slider, rotating machinery, balancing, vibration isolation and absorption, and instrumentation.
Prerequisite: ME 332, ME 334 and Senior standing.
- 4320 Propulsion Systems** 3:3:0
Space mission parameters. Basic elements of propulsion system and propulsion system parameters. Selected problems of thermochemical systems and electro-magneto-thermal systems.
Prerequisite: ME 331 and ME 338.
- 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 ME 332 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 MSC/NASTRAN as an analysis tool are encouraged.
Prerequisites: ME 332.
- 433 Aerodynamics** 3:3:0
Topics include circulation and curl, irrotational flow, velocity potential, vortex theorems, the equations of motion, flow about a body, and the thin airfoil. Vector and complex notations are used.
Prerequisite: ME 3311 and ME 334 or concurrent.
- 434 Internal Combustion Engines** 3:3:0
The principles of design and analysis of various types of internal combustion engines.
Prerequisite: ME 331 and ME 338.
- 435 Turbomachinery** 3:3:0
Flow problems encountered in the design of water, gas and steam turbines, centrifugal and axial-flow pumps and compressors.
Prerequisite: ME 3311 and ME 338.

- 436 Dynamics of Machinery** 3:2:3
Kinematics of mechanisms, gears and epicyclic gear trains. Synthesis of linkages. Calculation of inertia forces and shaking forces on machines. Multi-cylinder engine balancing. Graphical and analytical methods are employed.
Prerequisite: ME 332 and ME 334.
- 437 Advanced Machine Design** 3:2:3
The application of machine design principles to an integrated design of a complete machine, including fabrication and economic consideration.
Prerequisite: ME 4323.
- 438 Environmental Systems Engineering** 3:2:3
Design of refrigeration and air-conditioning systems including selection of mechanical equipment, controls, piping and duct layout.
Prerequisite: ME 331 and ME 338 or with instructor's approval.
- 439 Advanced Strength of Materials** 3:3:0
Introduction to the fundamental theory of three-dimensional elasticity with specialization of the general theory to provide the theory of plane stress and plane strain. Application of the general theory is made by analyzing the stress and deflection in a beam having a steel-concrete-steel sandwich configuration.
Prerequisites: CE 232 and ME 334.

Department of Mathematics

Department Chair: John R. Cannon

Lucas Building, Phone 880-8792

Director of Mathematics Instruction: Sam M. Wood, Jr.

Professors: Cannon, Crim

Professor Emeritus: Bell (1979), Latimer (1979)

Associate Professors: Baj, Brenizer, Dingle, Laidacker, Matheson, Price, Wood

Assistant Professors: Andreev, Baker, Chiou, Green, Harvill, Lauffer, Maesumi, Read

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. An active mathematics club provides students with the opportunity to work with fellow mathematics majors in a number of activities.

The department offers the following Baccalaureate degrees:

Bachelor of Arts in Mathematics

Bachelor of Science in Mathematics

Bachelor of Science in Mathematical Sciences (Applied Mathematics Concentration)

Bachelor of Science in Mathematical Sciences (Statistics Concentration)

The first 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, in mathematics or statistics.

The last two programs prepare students for 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 ambitious 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 Developmental Math 1301.** Students who have passed the mathematics portion of TASP but do not have an adequate SAT score are to initiate their mathematics with Developmental Math 1302 or possibly Mathematics 1331 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.

Recommended Programs of Study

Requirements Common to all Four Degree Programs:

1. General requirements:
See core curriculum, p. 14
2. Major requirements: 46-48 hours
 - a. Mth 148, 149, 241 – Calculus and Analytic Geometry
 - b. Mth 1345, 233, 331, 335, 338, 3370, 4315
 - c. Mth Electives – seven-to-nine semester hours at the 300/400 level.
 - d. CS – six semester hours
3. Minor requirements (see program below)
4. Electives (see program 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 Mth 335.

Bachelor of Arts - Mathematics Major

1. Additional General Requirements: 10-12 Hours
Foreign Language
 2. Additional Major Requirements: Select three courses from the List: Mth 3311, 333, 3321, 4202, 4203, 431, 433, 4316, 4321, 4322, 4325
 3. Minor Requirements: 18 Hours
- Total Hours 125-129

Bachelor of Science - Mathematics Major

1. Additional General Requirements: None
 2. Additional Major Requirements: Seven-to-nine hours
Select three courses from: Mth 3311, 333, 3321, 4202, 4203, 431, 433, 4316, 4322, 4325
 3. Professional Area: 24 Hours
Courses to be approved by the department.
 4. Electives: 6 Hours
To be approved by the department.
- Total Hours 127-129

Bachelor of Science - Mathematical Sciences - Applied Mathematics Concentration

This is a professional program that prepares the student to start an industrial or government career immediately after graduation. However, the student's training will be sufficiently comprehensive to allow entry into most graduate programs in the engineering, mathematical, physical, life or management sciences as well as computer science.

1. Additional General Requirements: None
 2. Additional Major Requirements: Seven-to-nine hours
Select three courses from the list: Mth 4202, 4203, 431, 4316, 4325
 3. Professional Area: 24 hours
Courses to be approved by the department
 4. Electives: 6 hours
To be approved by the department.
- Total hours 127-129

Bachelor of Science - Mathematical Sciences - Statistics Concentration

(See Description under Bachelor of Science - Mathematics Science - Applied Mathematics Concentration)

1. Additional General Requirements: None
 2. Additional Major Requirements: Nine hours
 - a. Select one course from: Mth 4321, 4322
 - b. Select one course from: Mth 3321, 433, 4316
 3. Professional Area: 24 hours (to be approved by the department)
 4. Electives: 6 hours (to be approved by the department)
- Total hours 127-129

Standard Curriculum For All Degree Programs

First Year

First Semester	
Eng Comp	3
Mth 148 Calculus and Analytic Geometry I.....	4
Mth 1345 Discrete Mathematics.....	3
Lab Sc.....	4
PE.....	2
	<hr/> 16

Second Semester	
Eng Comp	3
Mth 149 Calculus and Analytic Geometry II.....	4
Comp Sc	3
Lab Sc.....	4
PE.....	2
	<hr/> 16

Second Year

First Semester	
Eng Lit	3
Mth 241 Calculus and Analytic Geometry III.....	4
Comp Sc	3
Pol Sc 231	3
Mth 233	3
	<hr/> 16

Second Semester	
Lit or For Lang	3
Mth 331 Differential Equations	3
Pol Sc 232	3
Mth 3370	3
Professional Elective	3
Phi 130	3
	<hr/> 18

Third Year

First Semester	
Mth Sci Elective	2 or 3
Mth 338 Advanced Calculus	3
His 231	3
Professional Elective	3
Elective	3
Speech	3
	<hr/> 17 or 18

Second Semester	
Mth Sci Elective	2 or 3
Professional Elective	6
His 232	3
Mth 335	3
	<hr/> 14 or 15

Fourth Year

First Semester	
Fine Arts.....	3
Mth 4315	3
Professional Elective	6
Hlth 137	3
	<hr/> 15

Second Semester	
Mth Sci Elective	3
Professional Elective	6
Elective	3
Social Science	3
	<hr/> 15

Mathematics Courses (Mth)

1331	Survey of Mathematics 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.	
	<i>Prerequisite: Two years of high school algebra and TASP or Dmth 1302.</i>	
1334	College Algebra	3:3:0
	Linear, quadratic equations and inequalities, determinants, matrices, systems of equations, partial fractions, binomial theorem, logarithms, theory of equations.	
	<i>Prerequisite: Two years of high school algebra, 400 Math SAT or Dmth 1302 and TASP.</i>	
1335	Precalculus Mathematics	3:3:0
	Intensive review of algebra, trigonometry and analytic geometry. Prepares students for Mth 148 and 236.	
	<i>Prerequisite: Two years of high school algebra, trigonometry, 400 Math SAT and TASP.</i>	
1336	Survey of Mathematics II	3:3:0
	Equations, inequalities, graphs, functions, geometry, counting methods, probability and statistics.	
	<i>Prerequisite: Mth 1331.</i>	
1337	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.	
	<i>Prerequisite: Two years of high school algebra, Mth 1334 or concurrent, and TASP.</i>	

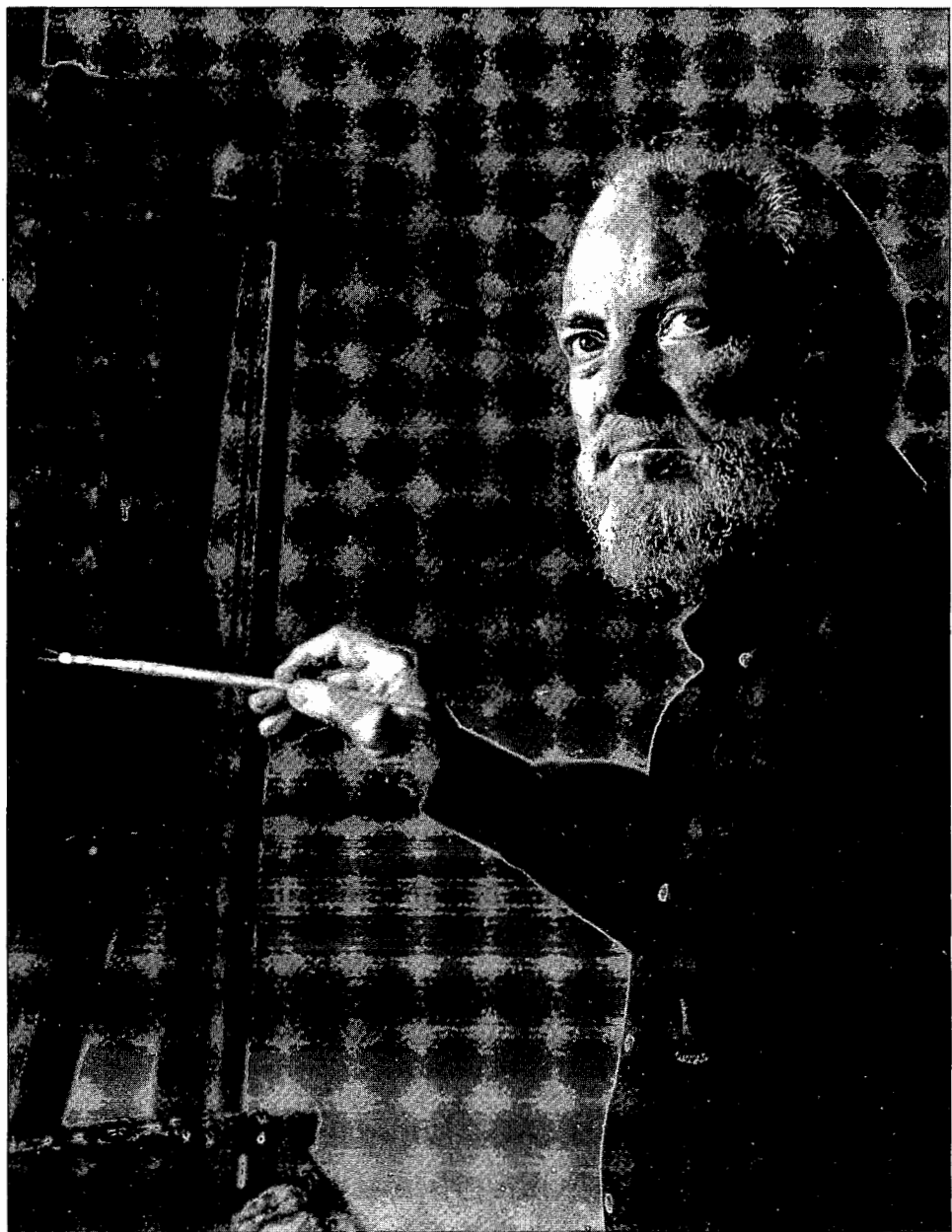
- 134 Mathematics for Business Applications** 3:3:0
Review of basic algebraic techniques, linear equations and inequalities; the mathematics of finance, matrices, linear programming and an introduction to probability and statistics.
Prerequisite: Two years of high school algebra, 400 Math SAT or Dmath 1302 and TASP.
- 1341 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: Mth 134 or 1334, or their equivalent.
- 1345 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: Mth 1334 or its equivalent.
- 148 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: Mth 1335 or its equivalent.
- 149 Calculus and Analytic Geometry II** 4:4:0
Methods of integration, polar co-ordinates, parametric equations and vectors.
Prerequisite: Mth 148 or its equivalent.
- 233 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: Mth 148 (Mth 236) or current enrollment in Mth 148 (Mth 236).
- 234 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: Mth 1334 or its equivalent.
- 236 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: Mth 1335 or its equivalent.
- 237 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: Mth 236.
- 241 Calculus and Analytic Geometry III** 4:4:0
Sequences, series, functions of several variables, vector analysis, partial derivatives, multiple integrals and differential equations.
Prerequisite: Mth 149 or its equivalent.
- 330 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.
- 331 Ordinary Differential Equations** 3:3:0
Classical and numerical solutions of ordinary differential equations and linear systems. Existence and uniqueness of solutions.
Prerequisite: Mth 233 and Mth 241.
- 3311 Set Theory** 3:3:0
Infinite sets, cardinal and ordinal arithmetic, axiom of choice, transfinite induction, introduction to topology.
Prerequisite: Mth 149.
- 3313 Elementary Geometry** 3:3:0
The development of Euclidean geometry, concepts of measurement and co-ordinate geometry.
Prerequisite: Mth 1336.

- 3315 Elementary Number Theory** 3:3:0
A development of the elementary theory of numbers, Diophantine equations, congruences, Fibonacci numbers and magic squares.
Prerequisite: Mth 1334 and Mth 1336.
- 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: Mth 149 and 233, and CS 1411.
- 333 Higher Geometry** 3:3:0
Axiomatic and set-theoretic treatment of geometry. An analysis of the metric and synthetic approach to Euclidean geometry. Introduction to non-Euclidean geometries.
Prerequisite: Mth 149.
- 3345 Computer-Assisted Mathematical Problem Solving I** 3:3:0
Utilization of the computer as a tool to gain insight into complex mathematical problems. Numerical integration, computation of special numbers (π , $\exp(-20)$, $\gamma(1/3)$, etc.) Euler-Maclaurin summation formula, interpolation and extrapolation, splines and least squares, nonlinear equations and systems, maxima and minima. Graphics: plotting of surfaces, level sets, orbits of dynamical systems.
Prerequisite: Mth 331 or Mth 3401.
- 335 Modern Algebra** 3:3:0
An introduction to algebraic structures, groups, rings, integral domains and fields.
Prerequisite: Mth 233 and Mth 149 (or 237).
- 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: Mth 149 or 237.
- 338 Advanced Calculus** 3:3:0
Sequences, series, Riemann integral, Weierstrass approximation theorem, Picard existence theorem for differential equations, Lebesgue integral.
Prerequisite: Mth 241.
- 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: Mth 241.
- 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.
- 4202 Partial Differential Equations** 2:2:0
Fourier series. Solution of boundary value problems including the heat equation the wave equation and the potential equation.
Prerequisite: Mth 241, and Mth 3401 or Mth 331.
- 4203 Vector Analysis** 2:2:0
Vector algebra, vector calculus of three dimensional vector fields (gradients, curl, divergence Laplacian) Green's, Gauss' and Stokes' theorems.
Prerequisite: Mth 241.
- 431 (G) Complex Variables** 3:3:0
Complex numbers, analytic functions, complex line integrals, Cauchy integral formula and applications.
Prerequisite: Mth 241.
- 4315 (G) 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: Mth 241 and CS 1411, or its equivalent.

- 4316 (G) Linear Programming** 3:3:0
Theory, development and computational aspects of the simplex method; convexity; degeneracy problems; revised simplex method; transportation problems, network flow problems; industrial applications.
Prerequisite: Mth 149, Mth 233 and CS 1411.
- 4321 Regression Analysis** 3:3:0
The simple linear model and the principle of least squares. Inference about slope parameter, prediction of future values, model checking, polynomial regression, multiple regression analysis, regression using matrix algebra.
Prerequisite: Mth 3370 & Mth 233.
- 4322 (G) Analysis of Variance** 3:3:0
Single sample inference, two sample inference, single factor analysis of variance, multiple comparison in analysis of variances, multi-factor analysis of variance, 2p factorial experiment.
Prerequisite: Mth 3370 or 438.
- 4325 Finite Element Analysis** 3:3:0
Fundamentals of the finite element method. Domain and discretization, interpolation functions and computer implementation. Applications to heat transfer, torsion of noncircular sections and irrotational flow.
Prerequisite: Mth 3401 or Mth 331, or equivalent.
- 433 (G) Linear Algebra II** 3:3:0
Vector-spaces, linear transformations, matrices, determinants, Eigenvalues, Eigenvectors, canonical forms, bi-linear mappings and quadratic forms.
Prerequisite: Mth 149 and 233.
- 4345 Computer-Assisted Mathematical Problem Solving II** 3:3:0
Continuation of Mth 3345. Topics selected from stability and error analysis for differential systems, numerical study of special functions, two-point boundary problems, random walks and Monte Carlo methods, extremal problems, numerical Fourier methods, and wave propagation phenomena. Results will be presented graphically where appropriate.
Prerequisite: Mth 3345.
- 438 (G) Theory of Statistical Inference** 3:3:0
A formal introduction to statistical inference, sampling theory, general principles of statistical inference, goodness of fit test, regression and correlation, analysis of variance.
Prerequisite: Mth 3370.



Engineering students experience hands-on work with a robot which was donated by a major Southeast Texas industry.



Jerry Newman holds the title of Regents Professor of Art for his outstanding work in the classroom and at the University. He has been teaching at Lamar University-Beaumont since 1962.

College of Fine Arts and Communication

Departments: Art, Communication, Music and Theatre

W. Brock Brentlinger, Ph.D., Dean

Dishman Art Gallery, 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, and communication disorders.

In Relation to the Departments: The College of Fine Arts and Communication offers the following basic degree programs:

1. Bachelor of Fine Arts, Art Major
 - a. Graphic Design
 - b. Studio Art
2. Bachelor of Science
 - a. Plan III All Level Teacher Certification
 - b. Secondary Art
3. Bachelor of Music Major in:
 - a. All Applied Fields
 - b. Theory and Composition
 - c. Teacher Certification, All Levels
4. Bachelor of Science
 - a. Speech-Speech Pathology and Audiology Major
 - b. Theatre
 - c. Communication

The Bachelor of Arts is offered in all of the above disciplines.

5. Bachelor of General Studies Fine Arts

Descriptions of graduate programs leading to the Master of Art in Visual Art, Studio and Art History Programs, Master of Music, Master of Music Education, Master of Science in Speech and Master of Science in Deaf Education degrees are included in the Graduate Bulletin.

Humanities Courses (Hum)

The departments of art, communication and music of the College of Fine and Applied Arts cooperate in the offering of three interdisciplinary courses in fine arts appreciation.

130 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.

- 231 Studies in Italian Culture** 3:2:4
Exposure to and study of the history of the development of the cultural arts in central Italy by means of lectures and exploratory visits to churches, museums and important historical sites in Rome, Naples, Florence and nearby cities.
Summers only. (LU-Rome only.)
- 331 Experiential Learning in the Arts** 3:0:9
Design and implementation of experiential learning study project under guidance of faculty advisor. Provides opportunity to apply classroom learning to actual experiences in community art programs. May be repeated for credit.
- 439 Seminar in the Fine Arts** 3:3:0
A study of aesthetics, i.e., the theory of fine arts and people's response to them particularly in reference to the visual arts, music and theater.

Bachelor of General Studies - Fine Arts

The Bachelor of General Studies Fine Arts 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.

Recommended Program of Study

First Year

First Semester	Second Semester
The 131 Intro to Theater.....3	Art 135 Art Appreciation.....3
Phil 130.....3	His 234 Arts in America.....3
Eng Comp.....3	MLt 222 Music Literature.....2
Lab Sci.....3-4	Eng Comp.....3
Health/Wellness.....3	Lab Sci (same).....3-4
	PE.....2
15-16	15-16

Second Year

First Semester	Second Semester
Art 235 Art History Survey I.....3	Art 236 Art History II.....3
Eng 2311 Eng Lit.....3	Speech.....3
POLS 231.....3	POLS 232.....3
Quant. Analysis.....3-4	Mth 1334.....3
MLt 121-Mus Lit.....2	His 231.....3
PE.....2	Social Science.....3
16-17	16-17

Third Year

First Semester	Second Semester
Eng 337/4317 Drama.....3	The 132 Stagecraft.....3
Mus 110 Recital Attendance.....1	Mus 110 Recital Attendance.....1
Elective.....3	Phl 130.....3
Elective.....3	Elective.....4
Elective.....3	Elective.....3
15	14

Fourth Year

First Semester	
The 336 Theater History I	3
Elective	3
Elective	3
Elective	3
Elective	3
	<hr/>

15

Second Semester	
The 430 Creative Communication	3
Elective	3
Elective	3
Elective	3
Elective	3
	<hr/>

15

Department of Art

Department Chair: Phil Fitzpatrick

100 Art Building, Phone 880-8141

Professors: Newman

Associate Professors: Fitzpatrick, Hill, Jack, Lokensgard, Madden, O'Neill

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 Design and Studio. 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 Art Education. Art electives are available for non-majors who desire experiences in the visual arts as part of their general education.

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.

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 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.

Recommended Programs of Study

Bachelor of Fine Arts-Visual Design

Bachelor of Fine Arts in Visual Design requires 75 hours of academic foundations with 60 credit hours of professional program.

First Year

First Semester	
Art 131 Drawing I	3
Art 133 Design I	3
Fine Arts Core	3
Eng Comp	3
PE	2
Lab Sc	4
	<hr/>

18

Second Semester	
Art 132 Drawing II	3
Art 134 Design II	3
Philosophy	3
Eng Comp	3
PE	2
Lab Sc	4
	<hr/>

18

Second Year*

First Semester	
Art 231 Drawing III.....	3
Art 233 Design III.....	3
Art 235 Art History Survey I.....	3
Hlth 137	3
Eng Lit.....	3
Mth 1334 or above.....	3
	<u>18</u>

Second Semester	
Art 232 Drawing IV.....	3
Art 236 Art History II.....	3
Art 237 Visual Design I.....	3
Social Science.....	3
Speech.....	3
Methods of Quantitative Analysis.....	3
	<u>18</u>

Third Year

First Semester	
Art 139 Photography I.....	3
Art 3313 Illustration I.....	3
Art 4343 Computers I.....	3
Amer His.....	3
POLS 231.....	3
Eng Lit.....	3
	<u>18</u>

Second Semester	
Art 4353 Computers II.....	3
Art 3333 Visual Design II.....	3
Art History Elective.....	3
Amer His.....	3
POLS 232.....	3
	<u>15</u>

Fourth Year

First Semester	
Art 3343 Visual Design III.....	3
Art 3355 Printmaking I.....	3
Art 3316 Watercolor I.....	3
Art History Elective.....	3
Art 4373 Field Study.....	3
	<u>15</u>

Second Semester	
Art 4399 Thesis.....	3
Art Elective.....	3
Art Elective.....	3
Art 4363 Computers III.....	3
Art History Elective.....	3
	<u>15</u>

*Art 235-236 prerequisite to all Art 300-400 level courses for art majors.

Bachelor of Fine Arts - Studio Art

Bachelor of Fine Arts in Studio requires 75 credit hours of academic foundations, 60 credit hours of professional program to include courses in the following areas:

Painting: 3316, 3317, 3326, 3327, 4316, 4326

Printmaking: 3365, 4355

Drawing: 3325, 4315, 4325

Sculpture: 3375, 4375

Ceramic: 3376, 3386, 4376

First Year

First Semester	
Art 131 Drawing I.....	3
Art 133 Design I.....	3
Fine Arts Core.....	3
Eng Comp.....	3
PE.....	2
Lab Sc.....	4
	<u>18</u>

Second Semester	
Art 132 Drawing II.....	3
Art 134 Design II.....	3
Phil 130.....	3
Eng Comp.....	3
PE.....	2
Lab Sc.....	4
	<u>18</u>

Second Year*

Art 231 Drawing III.....	3
Art 233 Design III.....	3
Art 235 Art History Survey I.....	3
Hlth 137	3
Eng Lit.....	3
Mth 1334.....	3
	<u>18</u>

Art 232 Drawing IV.....	3
Art 234 Sculpture.....	3
Art 236 Art History II.....	3
Art 238 Painting I.....	3
Social Science.....	3
Speech.....	3
	<u>18</u>

Third Year

First Semester	Second Semester
Art 3315 Drawing V.....3	Art Elective.....3
Art 139 Photography I.....3	Art History Elective.....3
Art 3355 Printmaking I.....3	American History.....3
American History.....3	POLS 232.....3
POLS 231.....3	Art 3335 or 3376.....3
Methods of Quantitative Analysis.....3	Art 3199 Studio Seminar.....1
18	16

Fourth Year

First Semester	Second Semester
Art Elective.....3	Art 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
Eng Lit.....3	Art 3199 Studio Seminar.....1
Studio Seminar 5190.....1	
16	13

*Art 235-236 prerequisite to all Art 300-400 level courses for art majors.

Bachelor of Science

All-Levels Certification

First Year

First Semester	Second Semester
Art 131 Drawing I.....3	Art 132 Drawing II.....3
Art 133 Design I.....3	Art 134 Design II.....3
Eng Comp.....3	Eng Comp.....3
PE.....2	PE.....2
Fine Arts Core.....3	Philosophy 130.....3
Lab Science.....4	Lab Science.....4
18	18

Second Year*

First Semester	Second Semester
Art 231 Drawing III.....3	Art 236 Art History II.....3
Art 233 Design III.....3	Eng Lit.....3
Art 235 Art History Survey I.....3	Methods of Quantitative Analysis.....3
Eng Lit.....3	Mth 1334.....3
Hlth 137.....3	Speech 131.....3
Social Science.....3	Art 237 Visual Design I.....3
18	18

Third Year

First Semester	Second Semester
Art 3355 Printmaking I.....3	PED 332.....3
Art 3371 Studies in Visual Art.....3	Pols 232 American Government II.....3
Ped 331.....3	Sophomore American History.....3
Art 3335 Crafts.....3	Art 4381 Advanced Visual Study.....3
Pols 231 American Government I.....3	Art 139 Photography I.....3
Sophomore American History.....3	Art 3199 Studio Seminar.....1
18	16

Fourth Year

First Semester		Second Semester	
Art 3376 Ceramics I.....	3	PED 463 Student Teaching All Levels/Special	6
PED 338	3	PED 434 Elementary Methodology and Classroom	
Art 3316 Watercolor I.....	3	Management	3
3199 Studio Seminar	6	Art 4335, Adv. Crafts.....	3
		Art 3199 Studio Seminar.....	1
			13

4715

*Art 235-236 prerequisite to all Art 300-400 level courses for art majors.

Bachelor of Science Degree in Secondary Education (Option II)**First Year**

First Semester		Second Semester	
Art 131 Drawing I.....	3	Art 139 Photography.....	3
Art 133 Design II.....	3	Art 134 Design II.....	3
Eng Comp.....	3	Eng Comp.....	3
Fine Arts Core	3	Art 3335 Crafts.....	3
Lab Sci.....	4	Lab Sci.....	4
PE Activity.....	2	PE Activity.....	2
	18		18

Second Year

First Semester		Second Semester	
Second Teaching Field	3	Art 236	3
Second Teaching Field	3	Philosophy.....	3
Art 235	3	Methods of Quantitative Analysis.....	3
Eng Lit	3	Hlth 137	3
Hlth 137	3	Speech 131	3
Social Science	3	Second Teaching Field	3
	18		18

Third Year

First Semester		Second Semester	
Pols 231	3	Art 3199 Studio Seminar.....	1
American History.....	3	American History	3
English Literature.....	3	Art 3376	3
Art 3316	3	PED 332	3
PED 331	3	Second Teaching Field	3
Second Teaching Field	3	Second Teaching Field	3
	18		16

Fourth Year

First Semester		Second Semester	
PED 338	3	PED 438	3
Art 3381	3	PED 462	6
Second Teaching Field	3	Art 4341	3
Second Teaching Field	3	Art 3199 Studio Seminar.....	1
Pols 232	3		
Art 3199 Studio Seminar.....	1		
	16		13

Teacher Certification - Art

Students wishing to obtain the Bachelor of Science degree and at the same time to certify for a provisional secondary certificate with a teaching field in art, must include in their degree program the following:

1. An approved 24 hour additional teaching field.
2. Professional Development
3. Approved electives to complete a total of 135 semester hours.

For details concerning requirements for teacher certification and information on professional education courses, consult the College of Education section in this bulletin.

Art Courses (Art)

131	Drawing I A beginning course investigating a variety of drawing media, techniques and subjects, exploring perceptual and descriptive possibilities.	3:6:0
132	Drawing II Continuation of Drawing I stressing the expressive and conceptual aspects of drawing. <i>Prerequisite: Art 131.</i>	3:6:0
133	Design I The study of the elements and concepts of two-dimensional design.	3:6:0
134	Design II Continuation of Design I with emphasis upon three-dimensional concept. <i>Prerequisite: Art 133.</i>	3:6:0
135	Art Appreciation An introductory course emphasizing the understanding and appreciation of visual arts (painting, sculpture, architecture). Open to all students.	3:3:0
139	Photography I An introduction to basic photographic processes and techniques used as an art medium.	3:6:0
231	Drawing III A life drawing course emphasizing structure and action of the human figure. <i>Prerequisite: Art 132.</i>	3:6:0
232	Drawing IV A continuation of Drawing III with emphasis on individual expression. <i>Prerequisite: Art 231.</i>	3:6:0
233	Design III An advanced investigation into the problems of two-dimensional form with emphasis on individual expression. <i>Prerequisite: Art 134.</i>	3:6:0
234	Sculpture I An exploration of the various sculptural approaches in a variety of media including additive and subtractive techniques. <i>Prerequisite: Art 132 and 134.</i>	3:6:0
235	Art History Survey I A survey of painting, sculpture, architecture and the minor arts from prehistoric times to the 14th Century.	3:3:0
236	Art History Survey II A survey of painting, sculpture, architecture and the minor arts from the 14th Century to the present.	3:3:0
237	Visual Design I Typography, layout and design for print and media production. <i>Prerequisite: Art 3351.</i>	3:6:0
238	Painting I Exploring the potentials of painting media with emphasis on color and composition. <i>Prerequisite: Art 132 and 134.</i>	3:6:0
239	Photography II Advanced study of black and white photography as an art medium. <i>Prerequisite: Art 139.</i>	3:6:0

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. <i>May be repeated for credit.</i>	
3303	Large Format Camera Photography	3:6:0
	Introduction to the use of the view camera. <i>Prerequisite: Art 3376.</i>	
3313	Illustration I	3:6:0
	A media course. The preparation and execution of graphic material for reproduction.	
3315	Drawing V	3:6:0
	Continuation of drawing and experimentation with various media for their adaptability to drawing principles. <i>Prerequisite: Art 232.</i>	
3316	Watercolor I	3:6:0
	Study and practice in the planning and execution of paintings in transparent and opaque watercolor. <i>Prerequisite: Art 233. May be repeated for credit.</i>	
3317	Painting II	3:6:0
	Continuation of Painting I with emphasis on individual expression. <i>Prerequisite: Art 238. May be repeated for credit.</i>	
3323	Illustration II	3:6:0
	Experimentation with various techniques and/or media. Continuation of Art 3313. <i>Prerequisite: Art 3313.</i>	
3325	Drawing VI	3:6:0
	Continuation of Art 3315. May be repeated for credit. <i>Prerequisite: Art 3315.</i>	
3326	Watercolor II	3:6:0
	A continuation of 3316. May be repeated for credit. <i>Prerequisite: Art 3316.</i>	
3327	Painting III	3:6:0
	Continuation of 3317. May be repeated for credit. <i>Prerequisite: Art 3317.</i>	
3333	Visual Design II	3:6:0
	The study of advanced layout for media advertising, collateral and editorial material and the basic preparation of art for reproduction. <i>Prerequisite: Art 237, Art 3351.</i>	
3335	Crafts	3:6:0
	Basic processes of textile design, weaving and jewelry. May be repeated for credit.	
3343	Visual Design III	3:6:0
	Advanced topics in packaging, layout, multimedia and presentation design. Emphasis on concept, creativity and professional approach to problems of design. <i>Prerequisite: Art 237, Art 3333, Art 3351.</i>	
3351	Desktop Design	3:6:0
	An introduction to the uses of computers in design, illustration, information and text processing and desktop publishing. Focus on developing general computer skills.	
3355	Printmaking I	3:6:0
	An introduction to printmaking with an emphasis on intaglio and relief processes. <i>Prerequisite: Art 233.</i>	
3365	Printmaking II	3:6:0
	A continuation of Art 3355 with emphasis on planographic and serigraphic techniques. May be repeated for credit. <i>Prerequisite: Art 3355.</i>	
3371	Studies in Visual Art	3:3:0
	Applications of essential elements in the visual arts.	
3375	Sculpture II	3:6:0
	Application of the principles of sculpture through experiment in clay, plaster and various materials. May be repeated for credit. <i>Prerequisite: Art 234.</i>	

3376	Ceramics I	3:6:0
	Investigation and practice in ceramic processes: forming and firing techniques. May be repeated for credit. <i>Prerequisite:</i> Art 234 or permission of instructor.	
3386	Ceramics II	3:6:0
	Opportunities for specialization in ceramic processes. May be repeated for credit. <i>Prerequisite:</i> Art 3376.	
4303	Color Photography	3:6:0
	An introduction to color printing techniques and the use of color analyzers. <i>Prerequisite:</i> Art 3303.	
4315	Drawing VII	3:6:0
	Specialized problems in studio area. May be repeated for credit. <i>Prerequisite:</i> Art 232.	
4316	Painting IV	3:6:0
	Specialized problems in studio area. May be repeated for credit.	
4325	Drawing VIII	3:6:0
	A continuation of Drawing VII. May be repeated for credit. <i>Prerequisite:</i> Art 3325.	
4326	Painting V	3:6:0
	A continuation of Painting IV. May be repeated for credit. <i>Prerequisite:</i> Art 4316.	
4328	19th Century Symbolist Art	3:3:0
	A study of the Symbolist movement in European Art from 1885-1910.	
4331	Crafts-Paper Fabrication	3:6:0
	Investigation of techniques of manipulating or fabricating and impressing paper. Course may be repeated for credit.	
4336	Professional Practices	3:3:0
	A study of the practical aspects of the art profession with emphasis on health hazards, business procedures, and art law.	
4338	Renaissance Art	3:3:0
	Study of 15th and 16th century art in the Western world.	
4341	Crafts Stained Glass and Enameling	3:6:0
	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	Computers in Art I	3:6:0
	Introduction to computers as a creative tool. Language and logic. Development of image making techniques, data handling and design.	
4348	19th & 20th Century Abstract Art	3:3:0
	Foundation of Abstraction in European Art from Neo-Classicism through Surrealism.	
4353	Computers in Art II	3:6:0
	Advanced topics in computer image making. Language and logic. Development of animation, sound and visual communications techniques. May be repeated for credit. <i>Prerequisite:</i> Art 4343.	
4355	Printmaking III	3:6:0
	Specialized problems in studio area. May be repeated for credit. <i>Prerequisite:</i> Art 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	3:6:0
	Advanced topics in computer image making. Student selected problems dealing with specific areas of computer images. Work done on a contract basis with specified objectives and tangible results. May be repeated for credit. <i>Prerequisite:</i> Art 4343.	
4368	Contemporary Art	3:3:0
	A historical and critical analysis of painting from 1900 to the present.	
4373	Field Study in Visual Design	3:6:0
	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 Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: Art 3375.</i>	3:6:0
4376	Ceramics III Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: Art 3376.</i>	3:6:0
4378	Primitive Art A study of the development and nature of primitive art.	3:3:0
4381	Advanced Studies in Visual Art Curricula, methods, and materials for the secondary school.	3:3:0
4388	Modern Architecture and Sculpture The development and evolution of modern architecture and sculpture from the late 19th century to the present.	3:3:0
4391	Directed Individual Study Study of specialized areas in Art History. May be repeated for credit. <i>Prerequisite: Permission of instructor.</i>	3:A:0
4393	Directed Individual Study Study of specialized area within commercial art field. May be repeated for credit. <i>Prerequisite: Permission of instructor.</i>	3:A:0
4395	Directed Individual Study Study of specialized area within fine arts field. May be repeated for credit. <i>Prerequisite: Permission of instructor.</i>	3:A:0
4398	History of Photography The development and evolution of photography from its invention in 1839 to the present.	3:3:0
4399	Thesis Student-selected problem encompassing an area of emphasis with suitable research, production, written support and oral presentation to a faculty committee. Studio art majors may repeat for credit.	3:6:0

Department of Communication

Department Chair: Olen T. Pederson

**201 Communication Building,
Phone 880-8153**

Professors: Brentlinger, Moulton, Pederson

Associate Professors: Andrews, Baker, Bethel, Deal, Harrigan, Roth, Wilson

Assistant Professors: King, Martin, Smith

Instructors: Carter, Dobson, Gonzales, Perkins, Powell

The Department of Communication offers the Bachelor of Science or Bachelor of Arts Degrees in Speech for students interested in Corporate Communication or Public Communication and the Bachelor of Science Degree in Communication for students interested in the fields of Journalism or Media.

The Bachelor of Science and Bachelor of Arts Degree in Speech also are offered for majors in Communication Disorders (Audiology/Deaf Education/Speech Pathology). The undergraduate major in Communication Disorders is a multidisciplinary pre-professional program which provides a foundation for graduate specialization, licensure and/or national certification within the professional fields of Audiology, Deaf Education or Speech Pathology. (see Graduate Catalog).

Teacher certification plans are offered in conjunction with the major study of Public Communication (for the teaching field of Speech), of Journalism, or of Deaf Education. 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 25) and have a minimum score of

800 of 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 programs by change of major must meet the same requirements or hold a minimum grade point average of 2.50 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. Psy 241 should be taken by majors of the Communication Department to meet the second Math requirement for the University Core Curriculum and Psy 131 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 and Speech
(except Communication Disorders Majors)**

The bachelor's degree programs in Speech or 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.

Students of these programs should take the following courses as required classes for the departmental core curriculum: Two of the four classes COM 233, COM 238, COM 235 or COM 334; COM 332; COM 4301; COM 439.

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.

**Recommended Course Sequence for the Bachelor of
Science Degree in Communication and Speech (except
Communication Disorders Majors) (assumes TASP
certified)**

Year One	
Fall Semester	Spring Semester
Eng 131.....3	Eng 132/134/135.....3
Fine Arts.....3	Com 1303
Phl 130.....3	Com 1333
Mth 1334/134.....3	Psy 2414
Spc 131.....3	Hlth 1373

Year Two

Fall Semester		Spring Semester	
Eng Lit	3	Eng Lit/Foreign Lang.....	3
POLS 231.....	3	POLS 232.....	3
Lab Science	4	Lab Science	4
Com 231	3	Com 236	3
Psy 131	3	Com 233/238/334/235	3
PE.....	2	PE.....	2

Year Three

Fall Semester		Spring Semester	
His (soph)	3	His (soph)	3
Com 439	3	Com 4301.....	3
Com 233/235/238/334	3	Com 332	3
Prof elective.....	6	Prof Elective	6

Year Four

Fall Semester		Spring Semester	
Com 435	3	Prof elective.....	15
Prof elective.....	12		

Bachelor's Degree in Speech - Communication Disorders Major

This program of Study leads to either the Bachelor of Arts or Bachelor of Science Degree in Communication Disorders for students pursuing the professional fields of Audiology, Deaf Education or Speech-Language Pathology and is accredited by the American Speech-Language-Hearing Association. This undergraduate program is considered pre-professional in nature as 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 the Graduate Catalogue for requirements). Upon completion of the Master's Degree, students are eligible for professional certification and/or state licensure, depending on their areas of professional interest and preparation.

Required courses for this major include: Spc 1302, Spc 1303, Spc 1304, Spc 1305, Spc 2301, Spc 2302, Spc 2303, Spc 2304, Spc 2305, Spc 3301, Spc 3302, Spc 3303, Spc 3304, Spc 3305, Com 335, Spc 4302, Spc 4303, Spc 4304, Spc 4305, Spc 4306, and Spc 4326.

Recommended Course Sequence for the Bachelor of Science Degree in Speech (Communication Disorders)**Year One**

Fall Semester		Spring Semester	
Eng 131.....	3	Eng 132.....	3
Phy 144	3	Chm 143	4
Phl 130	3	Mth 1334/134	3
Spc 1302.....	3	Spch 1304	3
Spc 1303.....	3	Spc 1305.....	3
PE.....	2	PE.....	2

Year Two

Fall Semester		Spring Semester	
Eng 2311.....	3	Eng 2312.....	3
His 231	4	His 232	3
Psy 131	3	Psy 241	4
Spc 2301.....	3	Spc 2302.....	3
Spc 2303.....	3	Spc 2304.....	3

Year Three

Fall Semester	
POLS 231.....	3
Hum 130.....	3
Spc 2305.....	3
Spc 3302.....	3
Spc 3303.....	3

Spring Semester	
POLS 232.....	3
Spc 3304.....	3
Spc 3305.....	4
Spc 4302.....	3
Spc 4306.....	3

Year Four

Fall Semester	
Com 131.....	3
Hlth 137.....	3
Spc 3301.....	3
Spc 4304.....	3
Spc 4305.....	3
Elective.....	3

Spring Semester	
Cs 1311.....	3
Com 335.....	3
Spc 4303.....	3
Spc 4326.....	3
Elective.....	3
Elective.....	3

Communication Classes (Com)

130	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.	
131	Public Speaking	3:3:0
	Principles and practice of public speaking.	
132	Introduction to Media Studies	3:3:0
	An introduction to the concept of popular culture as a media-audience interaction and a historical consideration of the rapidly altering nature of what was known previously as "mass communication."	
	<i>Prerequisite: Com 130, Eng 131.</i>	
133	Media Writing	3:3:0
	Covers all styles of writing for A/V: audio, television, film documentary, advertising, news, etc.	
	<i>Prerequisite: Com 130, Eng 131 with "C" or better. Proficiency in typewriting is required.</i>	
141	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.	
231	The Mediated Culture	3:3:0
	This course focuses upon the nature of electronic information processes and their impact upon the emerging global culture. Introduces the concept of psychological/mythics meaning in media and facilitates the "reading" of film and television images on both semiotic and symbolic levels.	
232	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.	
	<i>Prerequisite: Com 133.</i>	
233	Advanced Public Speaking	3:3:0
	An in-depth study in the principles and practices of public presentations.	
234	Media Aesthetics	3:3:0
	Explores concept of aesthetics in auditory and visual media and in popular as well as elite culture dimensions.	
	<i>Prerequisite: Eng 131 and 134; Phl 130, Com 132.</i>	
235	Performance Studies	3:3:0
	Instruction and practice in the principles of speech applied to performance in the interpretation of prose and poetry.	
	<i>Prerequisite: Soph Eng Lit or instructor's permission.</i>	
236	Interpersonal Communication	3:3:0
	Principles and practices of interpersonal communication in various settings.	
238	Argumentation & Critical Thinking	3:3:0
	A study of evidence and reasoning and a critique of them as reflected in current public affairs.	
2384	American Film	3:3:0
	Historical survey of the Hollywood film from the early "talkies" through contemporary cinema. Course demonstrates past influences on present day films as well as TV programs. Screenings and shot analysis in class.	

- 2385 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.
Prerequisite: Com 2384.
- 313 Journalism Production** 1:0:3
Laboratory experience in actual University Press setting. Assignment may be made for specific, on-the-job experience in editorial, design, photography, advertising and advertising sales. May be repeated for a maximum of 3 hours.
Prerequisite: Com 133 and 141.
- 3234 Practicum** 2:0:1
Laboratory experience under supervision of a professional in the field of student career interest.
Prerequisite: Senior major with minimum 3.0 GPA.
- 331 Business & Professional Speech** 3:3:0
Application of the fundamentals of speech production to the needs of the professional person.
- 332 Introduction to Organizational Communication** 3:3:0
A study of communication as it exists within the organization including small and large group processes, leadership, problem solving, roles and networks.
- 333 Advanced Journalistic Writing** 3:3:0
Writing focused on skills required for magazine and newspaper feature writing and editorial commentary.
- 334 Interviewing** 3:3:0
Theory and practice in the several types of interviews current in the United States including information, employment and persuasive.
- 336 Fundamentals of Public Relations** 3:3:0
Theory, principles and practice of public relations.
- 337 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.
Prerequisite: Com 234.
- 338 Documentary Film and TV** 3:3:0
An exploration of the nonfiction image. Utilizing a critical perspective the course focuses on the photographer/film-maker's attempt at an interpretation of "objective" reality.
Prerequisite: Com 234.
- 339 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: Com 332.
- 430 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, instructor permission required.
- 4301 Rhetorical Theory and Criticism** 3:3:0
Reading and detailed study of the theories of principal rhetoricians from ancient to modern times.
- 431 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.
- 432 Nonverbal Communication** 3:3:0
Theory, research, analysis and practice in nonverbal communication.
- 433 Media, the Individual, and Society** 3:3:0
The human experience in a technological life-world, rather than upon how the machines work. Perspectives include phenomenology, Bergson and modern hermeneutics as well as theoretical physics (Heisenberg, Bohr, Pauli). Cross cultural and cross media research is used for comparative analysis.
Prerequisite: Junior standing.
- 4331 International Cinema and TV** 3:3:0
Analysis of representative works from countries outside the U.S. comparing styles, movements, directors, genres. Topics include Soviet montage, German expressionism, Italian neorealism.

- 434 Organizational Communication Seminar** 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: Com 332.
- 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: Com 334 or instructor's permission.
- 435 Senior Seminar: Research Methods in Communication** 3:3:A
An introduction to quantitative and qualitative research methods specifically applied to communication questions.
Prerequisite: Psy 241.
- 436 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: Com 332 and 434 or instructor's permission.
- 4363 Persuasion** 3:3:0
A study of principles and techniques of attitude and behavior change at interpersonal, group, and societal levels. Special attention will be given to the use and misuses of propaganda.
- 437 Issues Management Seminar** 3:3:0
An in-depth examination of current theory and practice in corporate issues management.
Prerequisite: Com 332, 3391 or instructor's permission.
- 438 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.
- 4380 Advertising Analysis** 3:3:0
Examines the role of advertising in contemporary society. Focuses on consumer perspective and analysis of the advertising message.
Prerequisite: Junior standing.
- 4383 Print Advertising** 3:3:0
A study of advertising, including copy writing, type selection, layout and design for print media.
- 439 Communication Theory** 3:3:0
An in-depth look at the dominant theories used in the study of human communication.
- 4391 Director's Studies** 3:3:0
Stylistic and thematic analysis of a film director's work. Can be repeated with change of director, e.g. Hitchcock, DePalma, Ford, etc.
Prerequisite: Junior standing.

Speech Courses (Spc)

- 1301 Introduction to Speech, Hearing and Language Disorders** 3:3:0
Overview of the profession of speech pathology, audiology and deaf education. A course for NON-MAJORS.
- 1302 Phonetics** 3:3:0
Knowledge of American English sound system and syllable structure including proficiency in using the International Phonetic Alphabet for phonetic transcription.
- 1303 Language Science** 3:3:0
The theoretical constructs of language including the analysis of content (semantics), form syntax, morphology) and use (pragmatics of language in normal communications).
- 1304 Introduction to Deaf Studies** 3:3:0
Historical and current trends about the deaf community, their culture and modern rehabilitative procedures and techniques.
- 1305 Language Acquisition** 3:3:0
The study of normal language development and its changes with maturation.
- 2301 Hearing Anatomy and Physiology** 3:3:0
Structure and function of the peripheral mechanism and the central auditory pathways.
- 2302 Hearing Science** 3:3:0
The physics of sound, its perception and their relationships to audiological principles. Topics include Psychophysics, Auditory Sensitivity, Masking, Binaural Hearing, Loudness and Pitch.
Prerequisite: Spc 1303 or PI.

2303	Speech Science	3:3:0
	Basic physics of sound, instrumentation and performance in the speech sciences and acoustic phonetics. Topics include Vowel Formants, Consonant Energy Distributions, Consonant-Vowel Transitions and Perceptual Judgments of Acoustic Parameters.	
2304	Speech, Voice and Anatomy of the Speech Mechanism	3:3:0
	The anatomy and physiology of the speech and mechanism, the scientific variables of speech and voice and the perceptual phenomena that result.	
2305	Sign Language I	3:3:4
	Introduction to American Sign language and Signed English Systems.	
3301	SP-1: Introduction to Articulation and Language Disorders	3:3:0
	An introduction to articulation and language disorders, their etiology and therapy programs.	
3302	Introduction to Audiology	3:3:0
	An overview of the professional field of Audiology, an introduction to the terminology, testing techniques and procedures of the evaluation of the patient; interpretation of evaluation data; and application of information to the habilitation program for the patient.	
3303	Language for the Deaf I	3:3:0
	The first of three language courses for teachers of the deaf. Language I covers the acquisition and development of sign language (American Sign Language) and signed language systems (Signed English, MCE), and the acquisition and development of English from infancy to late childhood. The class also reviews English grammar for teachers.	
3304	SP-2: Introduction to Fluency, Voice and Organic Disorders in Disorders in Speech Pathology	3:3:0
	An introduction to fluency, voice and organic disorders in speech pathology, their etiology and therapy programs.	
3305	Sign Language II	3:3:4
	Intermediate skills course in American Sign Language and Sign English Systems.	
430	Problems and Projects in Speech	3:A:0
	Discussion and analization of communication problems with individual selection of a problem/project on which the student does extensive research and a formal report. Course may be repeated three times for credit. PI required.	
4302	Advanced Audiology	3:3:0
	Hearing evaluation procedures, clinical evaluation techniques and instrumentation.	
4303	Clinical Practicum	3:0:10
	Introduction to clinical practice in speech pathology, audiology and/or deaf education. This course may be repeated for clinical clock hours accumulation. PI required.	
4304	Neurology	3:3:0
	The human nervous system with particular emphasis on neuronal structures and pathways related to communication and its disorders.	
4305	Sign Language III	3:3:4
	Expanded American Sign Language for the Deaf.	
4306	Literacy and Deafness	3:3:0
	Theoretical interaction of the development of language and the problems of reading acquisition for deaf/HoH children. Includes approaches/techniques of assistance.	
4326	Cognition/Socialization and Deafness	3:3:0
	Cognitive, linguistic and social development of deaf individuals from infancy to adulthood.	

Department of Music and Theatre

Department Chair: James M. Simmons

106 Music Building, Phone 880-8144

Professors: LeBlanc, Simmons

Associate Professors: Babin, Collier, Culbertson, Dyess, Johnson, Mathis, Ornelas

Assistant Professors: Denham, Ellis, Gilman, Placette, Satterwhite, Taylor

Instructors: Draper, Gale, Shine-Gale

Lecturer: Wittry

Adjunct Instructors: Baas, Baker, Graham, Hines, Jemian, Peirce, Wadenpfuhl-Gay

Academic Advisor: Black

Piano Technician: Neff

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.

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 Mus 110 (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 (Mus 110) will also be required. Music laboratory credit may be used at the discretion of the Department Head. 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). Auditions dates may be obtained by contacting the Lamar University Department of Music. 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 repeat any course in the applied music sequence; in such a case, the course may be repeated for credit. The applied music requirement is not satisfied until approval of the faculty is obtained.

Any student registered for an applied music course (except 1101, 1143 or 1183) 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: MLb 1101 (A Cappella Choir) or MLb 1104 (Grand Choir) (Placement by Audition)
- 2) For wind, keyboard (instrumental emphasis), and percussion students: MLb 124 (Marching Band) and MLb 1150 (Symphonic Band)
- 3) For string students: MLb 1120 (Orchestra)

Recommended Program of Study

Bachelor of Music (model for all performance and composition degrees)

First Year	
AM applied major (2 courses)	4
AM Secondary Instrument	1
MLB Major Ensemble (2 courses)	2
MLB 114 (2 courses) xxx	2
MTY 132-133	6
MLT 121	2
MUS 110	1†
Eng Comp	6
Phil of Knowledge	3
Math	6
PE	2

35

Third Year	
AM applied major (2 courses)	8
MLB Major Ensemble (2 courses)	2
MLB 114 (2 courses)	2
MTY 321-322	4
MLT 333-334	6
MUS 335 or 336	3**
MUS 337 or 338	3**
MLB 210, 213, or 413	2††
SPC 131	3
PE	2

35

Second Year	
AM applied major (2 courses)	4
MLB Major Ensemble (2 courses)	2
MLB 114 (2 courses)	2
MTY 232-233	6
MLT 222	2
Eng Lit	3
Eng Lit or For Lang	3-6*
Science	8
American History	6

36-39

Fourth Year	
AM applied major (2 courses)	8
MLB Major Ensemble (2 courses)	2
MLB 114 (2 courses)	2
MTY 421-422	4
MLB 210 or 213 or 413	2††
POLS	6
Social Science	3
Hlth & Well	3

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 MLB 210 - Opera, to include participation in two productions; Keyboard majors will take four semesters of MLB 213 - Accompanying; Instrumental majors will take four semesters of MLB 413 - Chamber Music Ensemble courses.

†Degree credit requires seven semesters of satisfactory completion of MUS 110.

Bachelor of Music (with Teacher Certification)† (Band)

First Year	
AM applied major (2 courses)	4
AM 1143	1
MLb Major Ensemble (2 courses)	2
Mty 132-133	6
Mlt 121	2
Eng Com	6
Phil of Knowledge	3
Math	6
Mus 110	1*

31

Second Year	
AM applied major (2 courses)	4
MLb Major Ensemble (2 courses)	2
Mty 232-233	6
Mlt 222	2
Mus 335	3
Eng Lit	6
Science	8
Am Hist	6
Pols 231	3

40

Third Year

AM applied major (2 courses)	4
Mlb Major Ensemble (2 courses)	2
Mty 422	2
Mlt 333-334	6
Mus 227	2
Mus 331	3
Mus 311-312	2
Mus 313-314	2
Mus 315	1
Mus 336	3
Mus 338	3
Mus 411-412	2
Ped 331-332	6
Pols 232	3

41

Fourth Year

AM applied major	2
Mlb Major Ensemble	1
Mty 421	2
Health & Wellness	3
Cs 130	3
Ped 3326-338	6
Ped 434	3
Ped 463	6
Spc 131	3
Mus 327	2

31

*Degree credit requires seven semesters of satisfactory completion of MUS 110.

Bachelor of Music (with Teacher Certification)[†] (Orchestra)

First Year

AM applied major (2 courses)	4
AM 1143	1
Mlb Major Ensemble (2 courses)	2
Mty 132-133	6
Mlt 121	2
Eng Comp	6
Phil of Knowledge	3
Math	6
PE (2 courses)	4
Mus 110	1*

35

Second Year

AM applied major (2 courses)	4
Mlb Major Ensemble (2 courses)	2
Mty 232-233	6
Mlt 222	2
Mus 335	3
Eng Lit	6
Science	8
Am Hist	6
Pols 231	3

40

Third Year

AM applied major (2 courses)	4
Mlb Major Ensemble (2 courses)	2
Mty 422	2
Mlt 333-334	6
Mus 331	3
Mus 311-312	2
Mus 313 or 314	1
Mus 315	1
Mus 336	3
Mus 338	3
Mus 411-412	2
Ped 331-332	6
Pols 232	3

38

Fourth Year

AM applied major	2
Mlb Major Ensemble	1
Mty 421	2
Hlth & Well	3
Cs 130	3
Ped 3326-338	6
Ped 434	3
Ped 463	6
Spc 131	3

29

*Degree credit requires seven semesters of satisfactory completion of MUS 110.

[†]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	
AM applied major (2 courses)	4
AM 1143	1**
Mlb Major Ensemble (2 courses)	2
Mlb Opera (production)	1
Mty 132-133	6
Mlt 121	2
Eng Comp	6
Phil of Knowledge	3
Math	6
PE (2 courses)	4
Mus 110	1*

36

Second Year	
AM applied major (2 courses)	4
Mlb Major Ensemble (2 courses)	2
Mty 232-233	6
Mlt 222	2
Mus 336	3
Eng Lit	6
Science	8
American History	6
Polis 231	3

40

Third Year	
AM applied major (2 courses)	4
Mlb Major Ensemble (2 courses)	2
Mty 422	2
Mlt 333-334	6
Mus 331-332	6
Mus 335	3
Mus 337	3
Ped 331-332	6
Polis 232	3

35

Fourth Year	
AM applied major	2
Mlb Major Ensemble	1
Mty 421	2
Mlb Opera (production)	1
Hlth & Well	3
Cs 130	3
Ped 3326-338	6
Ped 434	3
Ped 463	6
Spc 131	3

30

* Degree credit requires seven semesters of satisfactory completion of MUS 110.

DEGREE REQUIREMENT: A student must participate in two opera productions.

** Piano majors will substitute secondary voice for AM 1143 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 (AM)

(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

1143 Secondary Piano

1183 Secondary Voice

1203, 3203, 3403 Bassoon

1211, 3211, 3411 Cello

1215, 3215, 3415 Clarinet

1217, 3217, 3417 Trumpet

1221, 3221, 3421 Flute

1223, 3223, 3423 French Horn

1227, 3227, 3427 Guitar

1231, 3231, 3431 Oboe

1233, 3233, 3433 Organ

1241, 3241, 3441 Piano

1251, 3251, 3451 Saxophone

1253, 3253, 3453 Percussion

1257, 3257, 3457 Double Bass

1261, 3261, 3461 Trombone

1262, 3262, 3462 Euphonium

1263, 3263, 3463 Tuba
 1271, 3271, 3471 Viola
 1273, 3273, 3473 Violin
 1281, 3281, 3481 Voice
 1283, 3283, 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 (MUS)

- 110 Recital**
 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.
- 130 Introduction to Music**
 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.
- 131 Basics of Music**
 Designed to familiarize non-music majors with basic elementary music fundamentals and skills.
- 231 Jazz: An American Art Form**
 A study of Jazz Styles: The history and analysis of jazz music and styles from the late 1800's to the present.
- 311 Brass**
 Music, materials, and basic techniques for trumpet and horn.
- 312 Brass**
 Music, materials, and basic techniques for trombone, baritone and tuba.
- 313 Strings**
 Music, materials, and basic techniques for violin and viola.
- 314 Strings**
 Music, materials, and basic techniques for cello and double bass.
- 315 Percussion**
 Music, materials, and basic techniques for percussion instruments.
- 227 Marching Methods**
 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.
- 327 Advanced Marching Methods**
 Advanced marching maneuvers and music. Computer assisted charting. On-campus observations. Hands-on training with campus laboratory band.
- 331 Kodaly Concepts of Music**
 The study of elementary folk music, materials and techniques using the Kodaly concept.
Prerequisite: MTY 131 (or equivalent).
- 332 Advanced Kodaly Concepts of Music**
 The study of advanced folk music, materials and techniques with the Kodaly concept.
Prerequisite: MUS 331 and MTY 131 (or equivalent).
- 334 Hymnody**
 A course designed for the music major and non-major. Based on a chronological survey of Christian hymnody and designed to aid in the understanding and appreciation of the hymns used in today's churches.
- 335 Choral Music**
 A detailed study of choral music. Areas of study include history, repertoire, and performance.
- 336 Instrumental Music**
 A detailed study of instrumental music. Areas of study include history, repertoire, and performance.
- 337 Choral Conducting**
 Basic patterns and rudiments of choral conducting and rehearsal techniques.
Prerequisites: some vocal study, piano keyboard, one year of vocal laboratory and MTY 232.
- 338 Instrumental Conducting**
 Basic patterns and rudiments of instrumental conducting and rehearsal techniques.
Prerequisites: applied music, instrumental performing laboratory and MTY 232.

- 410 Seminar**
A general study of the problems encountered in music.
- 411 Woodwinds**
Music, materials and basic techniques for flute, clarinet and saxophone.
- 412 Woodwinds**
Music, materials and basic techniques for oboe and bassoon.
- 430 Problems and Projects in Music Education**
An individual problem or project will be assigned in the music education area as necessary.
Prerequisite: consent of the Department Chair.
- 431 Problems and Projects in Music Literature**
An individual problem or project will be assigned in the music literature area as needs arise.
Prerequisite: consent of the Department Chair.
- 432 Problems and Projects in Music Theory**
An individual problem or project will be assigned in the music theory area as needs arise.
Prerequisite: consent of the Department Chair.

Music Laboratory (MLb)*

*Courses in Music Laboratory may be repeated for credit. Total credit not to exceed eight semesters for any one course.

- 113 Jazz Improvisation** 1:1:0
Designed to provide background in the art of improvisation.
- 114 Repertoire and Pedagogy** 1:1:0
A presentation and study of the literature, its performance, styles and means of presentation for a particular instrument or instruments. Eight semesters in the same instrument required (AM-Applied) of each major.
- 117 Dance Band** 1:0:3
Organized to furnish training in all styles of dance band performance. Open to any student who can qualify.
- 118 Percussion Ensemble** 1:0:1
The study and performance of chamber percussion literature. Designed to provide experience on all of the percussion instruments.
- 1120 Orchestra** 1:0:6
A performing ensemble open to all University students who can qualify. Required of any student majoring in a string instrument.
- 1140 Marching Band for Music Majors** 1:0:6
A professional course limited to and designed specifically for music majors.
- 1150 Symphonic Band** 1:0:6
Performance of symphonic wind ensemble and band repertoire. Audition required for admittance.
- 1101 A Cappella Choir** 1:0:6
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.
- 1102 Cardinal Singers** 1:0:6
Performing choral ensemble with instrumental combo accompaniment specializing in popular and folk repertoire. Audition required. Open to qualified students from other departments.
- 1104 Grand Chorus** 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.
- 1105 Cardinal Moods** 1:0:6
Performing choral ensemble with instrumental combo accompaniment specializing in popular and folk repertoire. Audition required. Open to qualified students from other departments. LU at Orange only.
- 1106 Cardinal Reflections** 1:0:6
Performing choral ensemble with instrumental combo accompaniment specializing in popular and folk repertoire. Audition required. Open to qualified students from other departments. LU at Port Arthur only.
- 124 Marching Band** 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.

- 210 Opera** 1:0:3
A laboratory class for advanced voice students providing study of complete operatic roles, scenes and excerpts for presentation in the opera-theatre. Annual fullscale opera production. Auditions open to all qualified students.
- 213 Accompanying** 1:0:1
An applied study of the art of accompanying instrumentalists and vocalists.
Prerequisite: Audition demonstrating adequate pianistic proficiency.
- 2260 Musical Comedy** 2:0:6
A laboratory course providing both background study and practical work in the specialized field of musical comedy, including participation in the presentation of a full production. Open to both vocalists and instrumentalists from all departments by audition or by consent of instructor.
- 413 Chamber Music Ensemble** 1:0:3
String ensemble, woodwind, brass ensemble and percussion ensemble. A course designed to give the student an opportunity to study and perform music written for the smaller instrumental ensembles. These groups will participate in various recital programs throughout the year. Open to any student upon recommendation of the instructor.

Music Literature Courses (MLt)

- 121 Music Literature** 2:2:0
An appraisal of the important events in music history with emphasis upon those aspects of music associated with style, form and performance. Familiarization of the student with music terminology and thorough briefing on score reading through the use of recordings from the significant periods of music history.
- 222 Music Literature** 2:2:0
A survey of the literature and advances made in music from the Medieval era to the mid-Renaissance.
Prerequisite: MTY 133.
- 333 Music History** 3:3:0
A survey of the literature and advances made in music from Mid-Renaissance to the pre-Classic era to the present. Two hours of listening required per week in addition to class lecture.
Prerequisite: MLT 121-222 and MTY 232-233.
- 334 Music History** 3:3:0
A survey of the literature and advance made in music from the Classic era. Two hours of listening required per week in addition to class lecture.
Prerequisite: MLT 121-222 and MTY 232-233
- 336 Choral Literature** 3:3:0
A study of music written for combinations of vocal music groups from the 12th century to the present day.
Prerequisite: Junior status.
- 337 Instrumental Literature** 3:3:0
An in-depth study of the literature and pedagogy of symphonic literature for strings and winds.
Prerequisite: Junior status.

Music Theory Courses (MTy)

- 131 Elements of Music** 3:3:0
Designed to prepare students for advanced study in music theory. A study of scales, chords, musical terminology, key signatures, sight-singing, musical notation and the harmonic, melodic and rhythmic structure of music.
- 132, 133 Elementary Harmony** 3:5:0
Elementary keyboard and written harmony, sight singing; ear training.
Prerequisite: MTy 131 or by advanced standing exam.
- 232, 233 Advanced Harmony** 3:5:0
Advanced keyboard and written harmony; sight singing; ear training.
Prerequisite: MTy 133.
- 321, 322 Counterpoint** 2:2:0
16th and 18th century contrapuntal techniques through analysis and creative writing.
Prerequisite: MTy 233.
- 323 Jazz Arranging** 2:2:0
A study and analysis of jazz harmony, melody and rhythm as applied to jazz band instrumentation; a workshop wherein arrangements are written and played.
- 421 Form and Analysis** 2:2:0
Analytical study of musical forms and styles.
Prerequisite: MTy 233.

422 Orchestration**2:2:0**

Techniques of writing and arranging for orchestral instruments in small combinations and for full orchestra.

*Prerequisite: MTy 233.***Requirements for Theatre Majors:**

This program provides a well-balanced curriculum which prepares students to assume positions in either professional theatre or as teachers in secondary schools. Students participate in all phases of scheduled theatre productions and are provided a background in both performance and technical theatre. The Bachelor of Arts degree requires an additional 12 semester hours of foreign language and a declared minor of 24 semester hours of course work.

1. Admission requirements. New students: 1) a minimum score of 800 on the SAT or a composite score of 15 on the ACT and 2) a minimum score of 35 on the Test of Standard Written English. Transfer or major change: 1) Meet the above standards for new students or 2) have a minimum grade point average of 2.50 based on at least 30 semester hours of college study.
2. A theatre course with a grade of "D" will not apply toward graduation.
3. Theatre Practicum (THE 230) is to be taken by all incoming freshmen and transfers for four consecutive semesters. Theatre minors must enroll in two consecutive semesters of THE 230.
4. Theatre majors will participate in some capacity in all scheduled productions yearly. Theatre minors will participate in some capacity in one-half of all scheduled productions yearly.

Recommended Programs of Study

The academic foundation course work required for all majors in Theatre is listed below.

General Requirements: See core curriculum, page 14.

Foundation Electives (hour requirement varies with degree program)

Major Course Requirements

The theatre degree may be earned with emphasis in performance, production (scenic/lighting), production (costume/make-up), theatre education. The specific emphases include the following required courses:

Performance

The 131, 1311, 132, 230, 235, 331, 336, 3360, 338, 437, 4360

Production (Scenic/Lighting)

The 131, 132, 230, 232, 233, 332, 333, 336, 339, 430, 432, 433

Production (Costumes/Make-up)

The 131, 132, 230, 231, 232, 235, 333, 336, 338, 339, 432, 435

Theatre Education

The 131, 132, 137, 230, 231, 232, 235, 333, 336, 338, 430, 4371

Those seeking teacher certification will also complete procedures and course requirements as detailed in the College of Education section in this bulletin.

Theatre Courses (The)**131 Introduction to Theatre****3:2:3**

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.

- 1311 Voice and Diction** 3:3:0
Vocal development, vocabulary building and pronunciation skills through systematic drills and exercises.
- 132 Stagecraft** 3:2:3
Basic course on the handling and construction of scenery, the care of stage properties and theatrical terminology. Provides hands-on experience for University productions.
- 135 Fundamentals of Stage Make-up** 3:2:3
Principles and practices of stage make-up application and design for stage use. A basic make-up kit is required for the in-class work.
- 137 Fundamentals of Acting** 3:2:3
Introductory principles and practice for basic acting training.
- 230 Practicum**
Laboratory instruction in production techniques required in all technical areas. This class is required of all theatre majors and minors for four consecutive semesters, excluding summers, while enrolled in the University. And, required for all theatre minors for two consecutive semesters, excluding summers.
- 231 Costume Construction** 3:2:3
Basic course in costuming, utilizing theatrical construction principles and techniques. Hands-on experience in University productions.
- 232 Introduction to Design for the Theatre** 3:2:3
Exploration of the historical and contemporary development of scenic and lighting design for the theatre. Emphasis on trends and the designer's role in the creative process.
Prerequisite: The 132.
- 233 Scenic Construction and Decoration**
Focusing on work in the theatre scene shop, this course provides practical experience in the fabrication and fine finishing of three dimensional stage scenery. Includes instruction of power tools, woodworking techniques, detail projects and architectural detailing, texturing and fabric constructions.
Prerequisite: The 132.
- 235 Stage Makeup** 3:2:3
Principles and practices in the application of stage make-up. Exploration and experimentation in the use of beards, wigs and three dimensional make-up.
- 237 Acting II** 3:2:3
A continuation of the process of acting with emphasis on movement and vocal work.
Prerequisite: The 137.
- 331 Auditioning** 3:2:3
Principles in the selection and preparation of scenes and monologues for auditioning for theatre productions, films and television work.
Prerequisite: The 137/237.
- 332 Scenic Design** 3:2:3
Concentration on hands-on design work with emphasis on composition, renderings, model-making and working drawings.
Prerequisite: The 232 and/or Drafting.
- 333 Lighting Design and Execution** 3:2:3
Emphasis on the design as well as the functions and use of lighting boards, circuitry and all involved equipment. Hands-on experience with University productions.
Prerequisite: The 232.
- 334 Dramatic Literature and Play Analysis** 3:2:3
Study and analysis of dramatic literature and playwrights from the Greeks to the present day.
- 336 Theatre History** 3:3:0
A survey of the history of theatre from the Greeks to the present day.
- 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.
- 337 Acting III** 3:2:3
Emphasis on the acting theories of Stanislavski, Strasberg and current methods being developed.
Prerequisite: The 137/237.

- 338 Fundamentals of Play Directing** 3:2:3
Introductory principles and practices for directing stage productions. In-class exercises will give the director practical experience in dealing with styles and techniques.
Prerequisite: The 132 and 137.
- 339 Painting and Scenic Art** 3:3:0
A hands-on course that teaches specific painting and detailing techniques.
Prerequisite: The 132/232.
- 430/430G Theatre Management/Production Management**
A split course with half of the semester working on the business side of managing a theatrical house and the other half of the semester learning the principles of managing a theatrical production.
Recommended: The 4371.
- 431/431G 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.
- 432/432G Advanced Design for the Theatre**
Focus on the application of technical aspects of the production within a creative problem-solving format.
Prerequisite: The 332.
- 433/433G Advanced Scenic Construction**
An advanced stagecraft course with lecture emphasis. Advanced study of construction and shop techniques including furniture work and specialty joinery. Exploration of the use of a wide variety of building materials including plastics, metal and specialty fabrics.
Prerequisite: The 132/232.
- 434/434G Media Performance**
A course for those interested in on camera and off camera work. Half of the semester will focus on the off camera technology and on-camera performance techniques.
Prerequisite: The 137.
- 435/435G Costume Design** 3:2:3
Study of the costume designers role in the creative process and the principles of design through historical accuracy.
Prerequisite: The 231.
- 4360/4360G Musical Comedy Performance** 2:0:6
A laboratory course providing practical experience in the production of a musical comedy. Open by audition or consent of the instructor to students from all departments who are interested in acting or being technically involved in the production. May be repeated twice for credit.
- 437/437G Acting IV** 3:3:0
Period styles of acting for the theatre. A historical perspective of the acting styles of the major time periods of theatrical performance. Performance-oriented.
Prerequisite: 137/237/337.
- 4371/4371G Directing Theatre Activities**
A "how-to" course on the organizing and producing of a variety of theatrical activities. Covering areas of fundraising, publicity, promotion, script and production requirements, the course is recommended for anyone who will work in schools, community organizations and theatres in an administrative capacity.
- 438/438G 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: The 338.
- 439/439G 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.
- 5350 Theatre Individual Study**
Individual study of special problems in theatre under faculty guidance.



Processional is lead by president of the Faculty Senate before each commencement. The mace carries the official University symbol.

Notes

College of Graduate Studies and Research

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 and Research 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
Political Science
Visual Arts

Master of Business Administration

Master of Education in

Elementary Education
Counseling and Development
School Administration
Secondary Education
Special Education
Supervision

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

Biology
Chemistry
Computer Science
Deaf Education
Environmental Engineering
Environmental Studies
Home Economics
Kinesiology
Mathematics
Psychology
Public Address

Speech Communication
Speech Pathology/Audiology
Theatre

Doctor of Engineering

The Graduate Catalog

The Graduate Catalog contains a complete listing of courses, admission required and other information of value to graduate students. Requests for copies should be directed to the College of Graduate Studies and Research, Lamar University, Box 10004, Lamar University Station, Beaumont, Texas 77710.

Admission to a Degree Program

1. Applicants for admission to the Graduate College must submit the following materials to the Graduate Admissions Coordinator at least 30 days before registration.
 - A. An application for admission to the Graduate College.
 - B. An official transcript from each college or university attended.
 - C. Official scores on the aptitude section of the Graduate Record Examination (GRE) sent directly to Lamar University by the Educational Testing Service. (Applicants for the Master of Business Administration degree are not required to take the GRE, but must submit scores on the Graduate Management Admission Test, GMAT. See the College of Business section of the current Graduate Catalog for specific requirements).
GRE AND GMAT SCORES MORE THAN FIVE YEARS OLD WILL BE ACCEPTED ONLY BY SPECIAL PERMISSION OF THE DEAN OF THE GRADUATE COLLEGE.
2. Applicants must meet the following requirements:
 - A. A prospective student must have a bachelor's degree from an institution approved by a recognized accrediting agency.
 - B. All students whose native language is not English must make a minimum score of 500 on the Test of English as a Foreign Language (TOEFL). Individual departments may require higher scores.
 - C. An applicant must meet *ONE* of the following criteria.
 - (1) A minimum combined score of 950 on the Verbal plus Quantitative sections of the Graduate Record Examination.
 - (2) A minimum combined score of 900 on the Verbal plus Quantitative sections of the GRE *with a minimum of 350 on the Verbal section.*
 - (3) Minimum scores of 400 on the Verbal section and 400 on the Quantitative section of the GRE with a minimum total of 900 on these two sections.
 - D. The following departments have established minimum grade point average requirements for admission to their degree programs.
 - (1) **2.5/4.0 overall or on the last 60 hours of undergraduate work:**

Biology	Kinesiology
English	Political Science
History	Psychology
Home Economics	Public Administration

(2) 2.0/4.0 overall or on the last 60 hours of undergraduate work:
Chemistry

(3) 3.0/4.0 on the last 60 hours of undergraduate work:
Computer Science

3. International students must provide the following additional items.
 - A. Complete official and certified translations of any transcripts which are not written in English.
 - B. A minimum score of 500 on the Test of English as a Foreign Language (TOEFL).
 - C. Proof of sufficient financial resources to meet the cost of attending Lamar University. International students must also present proof of adequate health insurance; those who plan to drive an automobile in the State of Texas must have liability insurance.

All application materials, scores, transcripts, etc., must be on file at Lamar University by May 15 for Fall admission; by October 1 for Spring admission, and by February 15 for Summer admission.

4. International students who are assigned to English as a Second Language must enroll in ESL course every semester or term such courses are offered until they receive a grade of "S." Students will not be admitted to candidacy or allowed to graduate until this requirement has been completed.
5. Applicants for the Master of Business Administration degree should consult the College of Business section in the current Graduate Bulletin for specific entrance requirements to that program.
6. Prospective Doctor of Engineering students must send a letter to the Dean, College of Engineering (Box 10057), giving information on the applicant's engineering experience, current employment, and major research interests.
7. Students who wish to pursue graduate work in any area for which they have not had the prerequisites will be required to make up deficiencies as required by the Graduate Council. In general, the student is required to have a minimum of 24 semester hours, (12 of which must be on the Junior-Senior level), of undergraduate work in the subject chosen as the graduate major. For a minor, 12 semester hours of undergraduate work are required.
8. Admission to the College of Graduate Studies does not imply candidacy for a degree.
9. The Director of Admissions Services will notify the applicant of admission to the College of Graduate Studies. All transcripts, certificates, etc., become the property of Lamar University and are not returnable.
10. Admission requirements stated above are minimum requirements. The applicant must also have the approval of the departments in which the degree program is offered and must meet the specific requirements of that department. Further details may be found in the Graduate Bulletin of Lamar University.

Post Baccalaureate Admission

1. Students who wish to take graduate courses but do not wish to be admitted to the College of Graduate Studies or who have not met all requirements for admission to the College may be admitted as Post Baccalaureate students in one of the undergraduate colleges under the following conditions:

- A. The applicant must hold a bachelor's degree.
 - B. The applicant must submit an application for admission to the Post Baccalaureate program.
 - C. The applicant must submit an official transcript from each college previously attended.
 - D. The applicant must be approved for admission by the Dean of Admissions.
2. International students will not be admitted as Post Baccalaureate students.
 3. If application for admission to a graduate degree is received in a subsequent semester and requirements for admission to the College of Graduate studies are completed, a maximum of six semester hours completed at Lamar before full admission is gained *may* be counted for degree credit with the approval of the department and the Graduate Dean.
 4. Post Baccalaureate students who have successfully completed six or more hours of graduate course work and who do not meet the minimum admission requirements for the College of Graduate Studies may petition for admission following the procedure outlined in the Graduate Bulletin under "Admissions Appeals." If admission is then granted by the College of Graduate Studies, the student may receive degree credit for six hours or for the number of hours completed at the end of the semester in which the student exceeds six hours.
 5. Post baccalaureate students are not permitted to enroll in Business courses for graduate credit without *prior* consent of the Graduate Coordinator, College of Business.



Graduation is an important milestone in a student's life.

Directory of Personnel 1992-94

Board of Regents

Ted Moor, Jr., <i>Chairman</i>	Beaumont
Amelie Cobb, <i>Vice Chairman</i>	Beaumont
C. W. Conn, Jr., <i>Secretary</i>	Beaumont
E. Linn Draper	Beaumont
Thomas M. Maes, II	Beaumont
Michael R. Ramsey	Beaumont
Wayne Reaud	Beaumont
MaDeline Kaye Savoy	Port Arthur
Ronald Steinhart	Dallas

System Administration

George E. McLaughlin, <i>Ed.D., Chancellor</i>
William C. Nylin, <i>Ph.D., Vice Chancellor for Academic Affairs</i>
W. S. Leonard, <i>M.S., Vice Chancellor for Development</i>
Kyle Shook, <i>Director of Internal Audit</i>
Hubert Oxford III, <i>General Counsel</i>
John P. Idoux, <i>Ph.D., Interim President, Lamar University-Beaumont</i>
W. Sam Monroe, <i>L.L.D., President, Lamar University-Port Arthur</i>
Steve Maradian, <i>Ed.D., President, Lamar University - Orange</i>
George E. McLaughlin, <i>Ed.D., President, John Gray Institute</i>
Kenneth E. Shipper, <i>Ph.D., Interim Executive Director, Lamar University Institute of Technology</i>

General Administration

Lamar University-Beaumont

John P. Idoux, <i>Ph.D., Interim President, Lamar University-Beaumont and Executive Vice President for Academic and Student Affairs</i>
E. Wayne Higgins, <i>M.B.A., Vice President for Finance and Operations</i>
Joseph D. Deshotel, <i>J.D., Vice President for Administration and Counsel</i>
J. Earl Brickhouse, <i>B.S., Executive Director for Public Affairs</i>
Wayne C. Seelbach, <i>Ph.D., Associate Vice President for Academic Affairs</i>
Joseph K. Kavanaugh, <i>Ph.D., Associate Vice President and Dean of Students</i>

Academic Administration

Blanchard, Kendall A., <i>Ph.D., Dean, College of Arts and Sciences</i>
Brentlinger, W. Brock, <i>Ph.D., Dean, College of Fine Arts and Communication</i>
Ensign, Gary C., <i>Ph.D., Director of Public Services</i>
McAdams, LeBland, <i>Ph.D., Interim Dean, College of Education and Human Development</i>
McCord, S. Joe, <i>Ph.D., Director of Library Services</i>
Moulton, Robert, <i>Ph.D., Associate Vice President for Research and Dean of Graduate Studies</i>
Rode, Elmer G., Jr., <i>M.Ed., Dean of Records and Registrar</i>
Sethna, Beheruz N., <i>Ph.D., Dean, College of Business</i>
Young, Fred M., <i>Ph.D., Dean, College of Engineering</i>

Principal Administrative Staff

Asteris, Mark, <i>Director, Media Services, Library</i>
Beadle, Dalton, <i>Purchasing Agent</i>

Birkner, JoAnn, *Director, Human Services*
 Bivins, Stephan, *Director, Recreation Sports*
 Carpenter, Eugene W., *Chief of University Police*
 Castete, Ralynn, *Director of Financial Aid*
 Chappell, Dana, *Director, Minority Scholars Institute*
 Cherry, Kathryn, *Supervisor of Parking Office*
 Chesser, Melissa, *Admissions Field Representative*
 Cook, Bernie, *Manager, Warehouse and Property Control*
 Droddy, Frances, *Director, Early Childhood Development Center*
 Duhon, Patricia, *Director, Institutional Research and Reporting*
 Fiorenza, Wanda, *Executive Director, Alumni Association*
 Fondren, Darrell L., *Director of Veterans Affairs/Evening Services*
 Forristall, Dorothy Z., *Director of Learning Skills*
 Foster, Marion, *Assistant Director, Occupational Health Safety*
 Francis, Clifton N., *Director of Records and Registration*
 Galloway, Willie M., *Administrative Assistant for University Reception Center*
 Gale, Thomas J., *Technical Director/Theatre*
 Garlick, Starla, *Assistant Director, Non-Credit Programs*
 Halverstadt, Donald, *Director, Computer Center*
 Hunter, Robert, *Director of Enrollment Management*
 Hurlbut, Brian, *Director of Accounting*
 Johnson, Barry, *Director of Bands*
 Jones, Delores, *Director, Student Health Center*
 Juhan, Gerry, *Counselor, Testing and Career Services*
 Ketcham, Bonnie, *Director of Reservations and Operations, Setzer Center*
 LeBlanc, Jerry, *Director of Development*
 Ledet, Les, *Station Manager, KVLU-FM Radio*
 Li, Ku-Yen, *Hazardous Waste Coordinator*
 Lokensgard, Lynne, *Director, Dishman Art Gallery*
 McCauley, Ruth, *Director of Setzer Center*
 McCaig, Gerald, *Director, Physical Plant*
 McLain, Bob, *Operations Manager, Montagne Center*
 Moye, Gene E., *Director of Student Financial Aid Accounting*
 Parigi, V. Domic, *Director, Photographic Services*
 Pate, Sharon, *Director of International Student Services*
 Pearson, Edwin A., *Director of Internal Services/Printing*
 Perkins, Howard, *Director of Student Publications*
 Pettyjohn, Mike, *Director of Food Service*
 Placette-Chapman, Jacquelynn F., *Panhellenic Advisor*
 Potts, Joe, *Director of Student Activities*
 Rice, Ray E., *Safety Coordinator*
 Rush, James C., *Director of Academic Services*
 Shaw, Ann, *Dean of Student Development/Student Services*
 Smith, Joe Lee, *Director of Public Information and Interim Director of Sports Information*
 Stracener, Bruce E., *Assistant Vice President for Auxiliary Services and Interim Athletic Director*
 Thames, Dorothy Faye, *Director of Developmental Education*
 Thibodeaux, Paul, *Campus Architect*
 Thomas, Karen, *Building Manager, Setzer Center*
 Trahan, Callie, *Coordinator, Services for Handicapped Students*
 Trammell, Janice, *Assistant Director, Credit Programs*
 Turco, Charles P., *Director of Special Programs*
 Vaughn, Don, *Associate Director for Facilities Planning*
 Willcox, Tom, *Director of Telecommunications*

Faculty 1992-94

The following list reflects the status of the Lamar University faculty as of Spring 1992. The date after each name is the academic year of first service to the University and does not necessarily imply continuous service.

Agnew, Virgil, 1990, *Lecturer in English*

B.A., B.S., University of Kansas; M.A., Lamar University-Beaumont

Alcazar, Sandy, 1991, *Clinical Instructor of Nursing*

B.S., Illinois State University; M.S., Lamar University

Allen, Virginia M., 1990, *Assistant Professor, Library Systems Coordinator*

B.A., University of Missouri, Kansas; M.L.S., Emporia State University

Akers, Hugh A., 1977, *Professor of Chemistry*

B.S., University of California, Riverside; Ph.D., University of California - Berkeley

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

Altomose, John R., Jr., 1973, *Professor of Criminal Justice*

A.B., Davidson College; M.Ed., Lamar University; M.A., Ph.D., Sam Houston State University; M.R.E., University of St. Thomas

Aminabhavi, Tejraj M., 1988, *Adjunct Research Professor of Chemistry*

B.S., M.S., Karnatak Science College; Ph.D., University of Texas

Anderson, Adrian N., 1967, *Professor of History; Chair, Department of History*

B.S., M.A., Ph.D., Texas Tech University

Anderson, Virginia N., 1960, *Associate Professor of Home Economics*

B.S., Georgia State College for Women; M.Ed., Trinity University; Certified Family Life Educator

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

Arndt, Timothy, 1991, *Assistant Professor of Computer Science*

B.S., Purdue University; M.S., University of Florida; Ph.D., University of Pittsburgh

Aronow, Saul, 1955, *Professor of Geology*

B.A., City University of New York, Brooklyn College; M.S., State University of Iowa; Ph.D., University of Wisconsin

Asteris, Mark M., 1985, *Assistant Professor; Media Services Coordinator*

B.A., King's College; M.L.S., Villanova University

Babin, L. Randolph, 1968, *Associate Professor of Music, Director of Choral Activities*

B.M.Ed., M.M.Ed., Ph.D., Louisiana State University

Baj, Joseph A., II, 1964, *Associate Professor of Mathematics*

B.A., Kent State University; M.A., University of Texas

Baker, B. Joanne, 1981, *Assistant Professor of Mathematics*

B.A., Lamar University; M.A., Ph.D., University of Texas at Austin

Baker, Christopher P., 1976, *Professor of English; Director, Freshman English*

B.A., St. Lawrence University; M.A., Ph.D., University of North Carolina

Baker, Mary Alice, 1969, *Associate Professor of Communication*

B.S., M.A., University of Oklahoma; Ph.D., Purdue University

- Barlow, H. A., 1951, *Regents' Professor, Associate Professor of Accounting***
B.S., Louisiana Tech University; M.B.A., Louisiana State University; Certified Public Accountant
- Barnes, Cynthia, 1982, *Associate Professor of Office Administration and Management Information Systems***
B.S., Howard Payne University; M.Ed., Texas Tech University; Ed.D., North Texas State University
- Barrington, Billy Ray, 1967, *Professor of Psychology***
B.S., Southwest Texas State University; M.Ed., Sam Houston State University; Ph.D., University of Houston
- Barton, Joel E. III, 1987, *Associate Professor of Health***
B.S., M.Ed., Ph.D., Texas A&M University
- Bayliss, Susan, 1991, *Instructor of Nursing***
B.S.N., McNeese; M.S.N., U.T. Medical Branch, Galveston
- 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
- Bechler, David L., 1981, *Associate Professor of Biology***
B.A., Indiana University; M.S., Northeast Louisiana University; Ph.D., St. Louis University
- Bell, Alice C., 1971, *Professor of Health; Kinesiology and Dance***
B.S., M.A., Ph.D., Texas Woman's University
- Bethel, James A., 1987, *Associate Professor of Communication***
B.A., University of Tulsa; M.A., Ph.D., University of Oklahoma
- Bianchi, Thomas S., 1990, *Assistant Professor of Biology***
B.A., Dowling College; M.A., State University of New York-Stony Brook; Ph.D., University of Maryland
- Birdwell-Pheasant, Donna, 1984, *Associate Professor of Anthropology***
B.A., M.A., Ph.D., Southern Methodist University
- Blackwell, E. Harold, 1990, *Professor of Kinesiology; Chair, Department of Health, Kinesiology and Dance***
B.S., Delta State University; M.Ed., Memphis State University; Ed.D., University of Southern Mississippi
- Blanchard, Kendall A., 1991, *Professor of Anthropology; Dean, College of Arts and Sciences***
B.A., Olivet Nazarene College; M.Div., Vanderbilt University; M.A., Ph.D., Southern Methodist University
- Boatwright, J. Douglas, 1986, *Associate Professor of Kinesiology; Coordinator of Health, Kinesiology and Dance Graduate Programs***
B.S., University of Alabama at Birmingham; M.S., Ph.D., Louisiana State University
- Bouvier, Judy K., 1991, *Lecturer in English***
B.A., Lamar University-Beaumont; M.F.A., University of Iowa
- Boyd, Sandra M., 1979, *Assistant Professor of Nursing***
B.S.N., Wayne State University; M.S., University of Houston; Registered Nurse
- Brenizer, Joan E., 1957, *Associate Professor of Mathematics***
B.S., Lamar University; M.A., University of Texas
- Brentlinger, W. Brock, 1969, *Professor of Communication; Dean, College of Fine Arts and Communication***
B.A., Greenville College; M.A., Indiana State University; Ph.D., University of Illinois
- Briggs, Kenneth R., 1966, *Regents' Professor of Professional Pedagogy***
B.S., M.Ed., Ed.D., North Texas State University
- Brockhoeft, Barbara, 1988, *Lecturer in Home Economics***
M.S., Lamar University

- Brown, Martin**, 1991, *Lecturer in English*
B.A., Stephen F. Austin University; M.A., Texas Tech University
- 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
- Bryan, George A., Jr.**, 1964, *Assistant Professor of Biology*
B.S., University of Texas at El Paso; M.S., Pennsylvania State University
- Buonora, Paul T.**, 1990, *Assistant Professor of Chemistry*
B.S., M.S., Indiana University of Pennsylvania, Ph.D., University of Virginia
- Bumpus, Donna**, 1988, *Instructor 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
- Cannon, John R.**, 1988, *Professor of Mathematics; Chair, Department of Mathematics*
B.A., Lamar University; M.A., Ph.D., Rice University
- Carley, Wayne W.**, 1983, *Associate Professor of Biology*
B.S., M.A., Ph.D., University of California
- 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, *Professor of History*
A.B., Brown University; M.A., Providence College; Ph.D., University of Kentucky
- Carruth, Carl**, 1966, *Associate Professor of Industrial Engineering*
B.S., Lamar University; M.S., University of Houston; Ph.D., University of Texas-Arlington; Registered Professional Engineer
- Carter, Keith D.**, 1989, *Wallis Chair Visiting Professor and Instructor of Art*
B.B.A., Lamar University
- Castle, David S.**, 1985, *Associate Professor of Political Science*
B.A., M.A., Marshall University; Ph.D., University of Rochester
- Cavaliere, Frank J.**, 1985, *Associate Professor of Business Law*
B.A., Brooklyn College; B.B.A., Lamar University; J.D., University of Texas School of Law
- Cawley, William A.**, 1988, *Professor, Hazardous Waste Research; Director, Gulf Coast Hazardous Substance Research Center*
B.A., Harvard University; B.S., Tufts University; M.S., Massachusetts Institute of Technology; Registered Professional Engineer
- Chaisson, Lisa René**, 1988, *Assistant Professor of Dance; Coordinator of Academic Dance Program*
B.A., Centenary College; M.F.A., Texas Woman's University
- Chan, Chen-Wen Wendy**, 1984, *Adjunct Instructor/Computer Lab Supervisor*
B.S., Lamar University
- Chapman, Albert T.**, 1989, *Instructor, Reference/Documents Librarian*
B.A., Taylor University; M.A., University of Toledo; M.L.S., University of Kentucky
- Chappell, Dana Lynn**, 1985, *Director of Minority Scholars Institute*
B.S.Ed., Edinboro University of Pennsylvania; M.S.Ed., Duquesne University
- Chelf, Roger D.**, 1989, *Assitant Professor of Physics*
B.S., M.S., University of Kentucky; Ph.D., Georgia Institute of Technology

- Chen, Daniel Hao**, 1982, *Associate Professor of Chemical Engineering*
B.S., National Cheng-Kung University; M.S., National Taiwan University; Ph.D., Oklahoma State University; Registered Professional Engineer
- Cherry, Richard T.**, 1966, *Regents' Professor of Finance*
B.A., Texas A&M University; M.A., Ph.D., University of Texas
- Chiou, Paul**, 1988, *Associate Professor of Mathematics*
B.S., National Chung Hsing University; M.A., Ph.D., University of Texas
- Choi, Jai-Young**, 1982, *Associate Professor of Economics*
B.A., Yonsei University; M.A., University of Kansas; Ph.D., University of Oklahoma
- Chu, Hsing-wei**, 1979, *Assistant Professor in the Department of Industrial Engineering*
B.S., Tunghai University; M.S., Asian Institute of Technology; Ph.D., University of Texas
- Clark, Bradley D.**, 1988, *Assistant Professor of Spanish*
B.A., M.A., Brigham Young University; Ph.D., University of Texas
- Clem, Roger**, 1985, *Instructor of Communication Disorders*
B.S., M.S., Lamar University; A.S.H.A. Certification in Audiology
- Cocke, David, L.**, 1989, *Jack M. Gill Professor of Chemistry and Director of the Environmental Chemistry Lab*
B.S., University of Texas; M.S., Lamar University; Ph.D., Texas A&M University
- Collier, J. N.**, 1955, *Associate Professor of Music*
B.M., University of Houston; M.M., Southern Methodist University
- Collins, Barry**, 1991, *Lecturer in Physical Education; Head Track Coach*
B.S., M.S., Lamar University
- Comeaux, Carolyn**, 1990, *Lecturer in English*
B.A., M.F.A., McNeese State University
- Commander, Emily Sue**, 1985, *Lecturer in Developmental Mathematics*
B.S., M.S., Lamar University
- Connors, Priscilla**, 1991, *Instructor of Home Economics*
B.S., State University College, Oneonta, N.Y.; M.B.A., State University New York at Binghamton; Registered Dietitian
- Cooke, James L.**, 1956, *Regents' Professor of Electrical Engineering*
B.S., Texas Tech University; M.S., University of Texas; Ph.D., Northwestern University; Registered Professional Engineer
- 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, *Associate Professor of Geology*
B.A., University of South Dakota; M.S., University of Wisconsin-Madison; Ph.D., University of Minnesota
- Corder, Paul Ray**, 1987, *Associate Professor in the Department of Mechanical Engineering*
B.S.M.E., M.S.M.E., Ph.D., Texas A&M University
- Core, Carol**, 1988, *Lecturer in Physical Education, Assistant Athletic Director for Academic Affairs*
B.S., Lamar University; M.S., New Mexico State University
- Cox, Howard**, 1990, *Lecturer in English*
B.A., Stephen F. Austin State University; M.A., Abilene Christian University
- Crawford, Katrinka J.**, 1981, *Lecturer in Physical Education; Head Volleyball Coach*
B.S., Utah State
- Crim, Sterling C.**, 1964, *Professor of Mathematics*
B.A., Lamar University; B.S., Baylor University; M.Ed., North Texas State University; M.A., George Peabody College for Teachers; Ph.D., University of Texas
- Crowder, Vernon Roy**, 1967, *Professor of Kinesiology*
B.S., Lamar University; M.S., Ph.D., Louisiana State University

- Crum, Floyd M.**, 1955, *Regents' Professor of Electrical Engineering, Chair Electrical Engineering Department, Registered Professional Engineer*
B.S., M.S., Louisiana State University
- Culbertson, Robert M., Jr.**, 1974, *Associate Professor of Music*
B.M., Northern Illinois University; M.M., University of Wisconsin; D.M.A., University of Texas
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- Deal, Randolph E.**, 1990, *Associate Professor of Communication and Director of Speech and Hearing*
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- de Bittencourt, Julio C.**, 1988, *Coordinator of Dance Performance, Artist in Residence of Dance, Moody Lecturer in Dance*
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- Elmore, Mildred**, 1990, *Lecturer in English*
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- Kemble, Joe**, 1989, *Lecturer of Developmental Math*
B.S., M.Ed., Lamar University-Beaumont
- King, Larry J.**, 1991, *Assistant Professor of Communication*
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- King, Ronald S.**, 1989, *Professor of Computer Science, Chair, Department of Computer Science*
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B.C.E., The City University of New York; M.S., Columbia University; M.C.E., New York University; Ph.D., Wayne State University; Registered Professional Engineer
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B.A., M.S., Ph.D., Florida State University
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B.S., M.S., Auburn University
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- LeMire, Wilma**, 1989, *Lecturer, Developmental Mathematics*
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B.A., M.A., University of Minnesota; Ph.D., University of Kansas
- Love, James J.**, 1976, *Assistant Professor of Criminal Law*
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B.S., Howard College; M.S., Alabama College; Ph.D., Florida State University
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B.S., M.S., National Taiwan University; Ph.D., University of Georgia
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B.A., University of Toledo; M.A., Ph.D., Lehigh University
- Madden, Robert**, 1959, *Associate Professor of Art*
B.A., Centenary College; M.F.A., University of Arkansas
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B.S., University of Washington; Ph.D., University of Illinois
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The architectural design of the circulation desk of the Mary and John Gray Library bathes the area in natural light.

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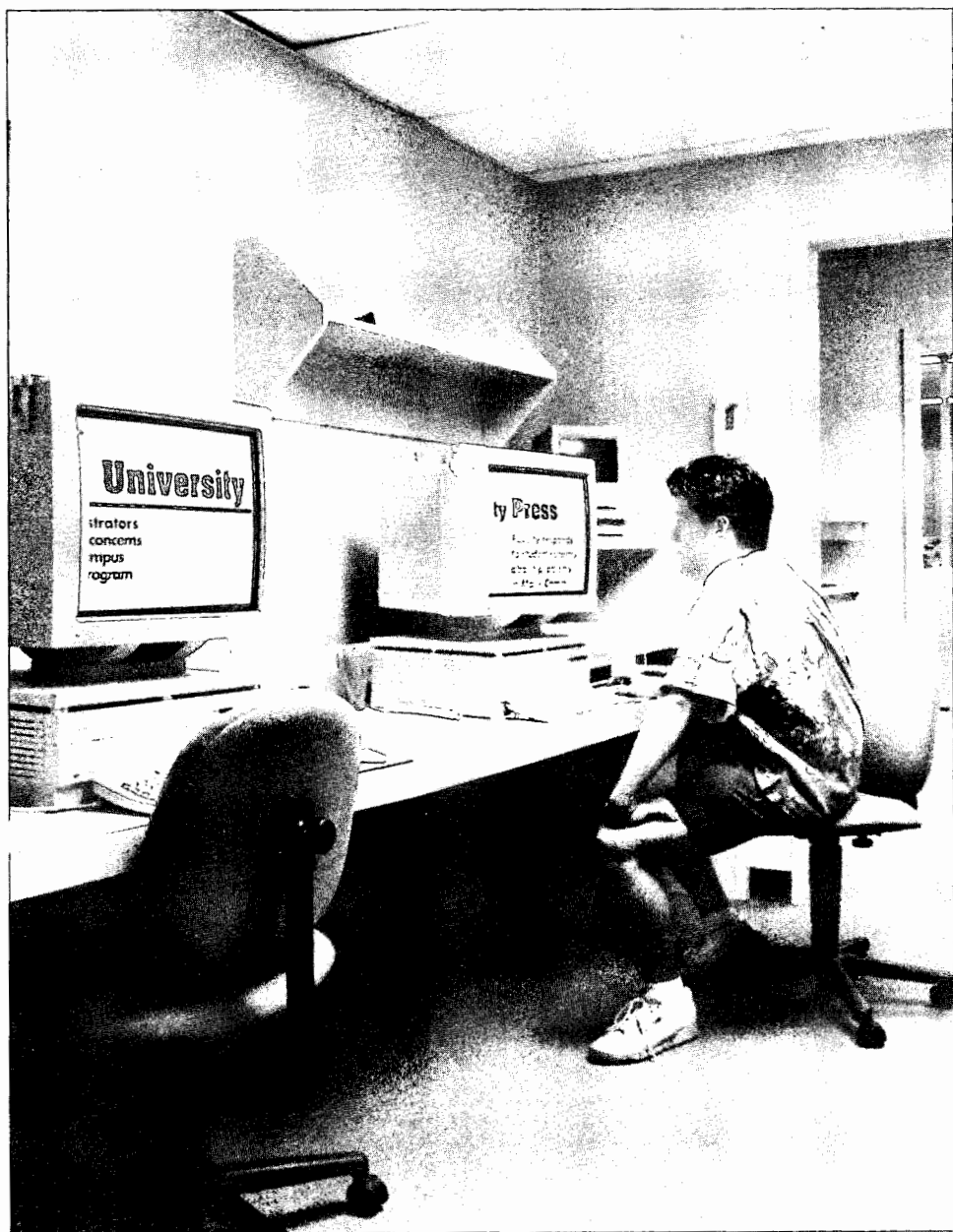
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