



LAMAR UNIVERSITY  
GENERAL CATALOG 84-85



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# Lamar University

1984-85 Bulletin

Vol.33 No. 1

Thirty-third annual catalog issue with announcements for 1984-85.

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

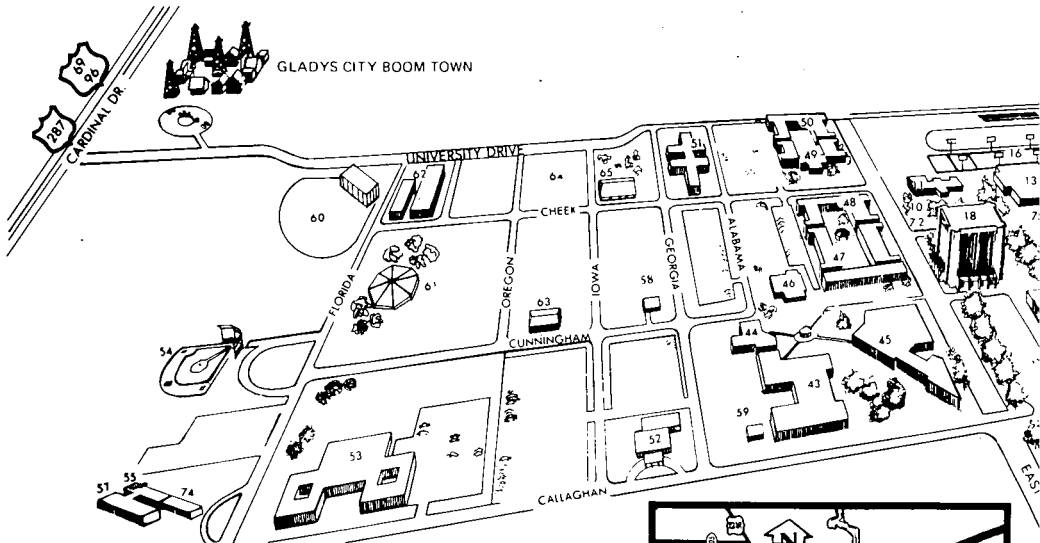
The provisions of this bulletin do not constitute a contract, expressed or implied, between any applicant, student, and faculty member in Lamar University. Lamar University reserves the right to withdraw courses at any time, change fees, calendars, curricula, graduation procedures, and any other requirement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

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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, 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 Executive Associate to the President.

Bulletin of Lamar University (USPS 074-420).

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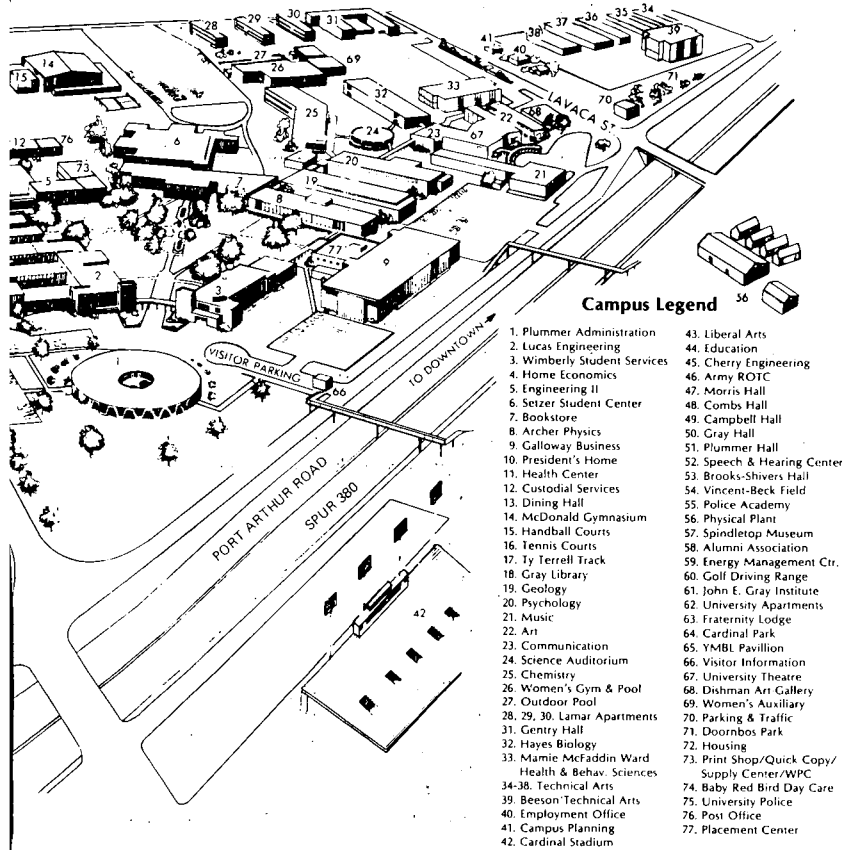
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**The Campus**

Lamar University's campus has expanded rapidly during the past decade and now encompasses more than 200 acres. The University also has campuses in Orange and Port Arthur.

Guidelines for future expansion of the Beaumont campus are included in a conceptual master plan which will guide development into the year 2000. A large portion of the master plan already has been approved by the University's Board of Regents.

Architects have placed a strong emphasis upon developing a feeling of "monumentality and dignity," with the library as the dominant focus of the campus. The 20-year plan shows the addition of multi-storied buildings.



### Campus Legend

- |   |   |
|---|---|
| 1. Plummer Administration                           | 43. Liberal Arts                                |
| 2. Lucas Engineering                                | 44. Education                                   |
| 3. Wimberly Student Services                        | 45. Cherry Engineering                          |
| 4. Home Economics                                   | 46. Army ROTC                                   |
| 5. Engineering II                                   | 47. Morris Hall                                 |
| 6. Setzer Student Center                            | 48. Combs Hall                                  |
| 7. Bookstore  | 49. Campbell Hall                               |
| 8. Archer Physics                                   | 50. Gray Hall                                   |
| 9. Galloway Business                                | 51. Plummer Hall                                |
| 10. President's Home                                | 52. Speech & Hearing Center                     |
| 11. Health Center                                   | 53. Brooks-Shivers Hall                         |
| 12. Custodial Services                              | 54. Vincent-Beck Field                          |
| 13. Dining Hall                                     | 55. Police Academy                              |
| 14. McDonald Gymnasium                              | 56. Physical Plant                              |
| 15. Handball Courts                                 | 57. Spindletop Museum                           |
| 16. Tennis Courts                                   | 58. Alumni Association                          |
| 17. Ty Terrell Track                                | 59. Energy Management Ctr.                      |
| 18. Gray Library                                    | 60. Golf Driving Range                          |
| 19. Geology   | 61. John E. Gray Institute                      |
| 20. Psychology                                      | 62. University Apartments                       |
| 21. Music   | 63. Fraternity Lodge                            |
| 22. Art   | 64. Cardinal Park                               |
| 23. Communication                                   | 65. YMBL Pavilion                               |
| 24. Science Auditorium                              | 66. Visitor Information                         |
| 25. Chemistry                                       | 67. University Theatre                          |
| 26. Women's Gym & Pool                              | 68. Dishman Art Gallery                         |
| 27. Outdoor Pool                                    | 69. Women's Auxiliary                           |
| 28, 29, 30. Lamar Apartments                        | 70. Parking & Traffic                           |
| 31. Gentry Hall                                     | 71. Doornbos Park                               |
| 32. Hayes Biology                                   | 72. Housing                                     |
| 33. Mamie McFaddin Ward<br>Health & Behav. Sciences | 73. Print Shop/Quick Copy/<br>Supply Center/WPC |
| 34-38. Technical Arts                               | 74. Baby Red Bird Day Care                      |
| 39. Beeson Technical Arts                           | 75. University Police                           |
| 40. Employment Office                               | 76. Post Office                                 |
| 41. Campus Planning                                 | 77. Placement Center                            |
| 42. Cardinal Stadium                                |   |

## 1984-85 Calendar

Published dates of this calendar are subject to revision by published notice from the Vice President for Academic Affairs.

### Fall Semester—1984

#### August 1984

- 26 Dormitories open at 1 p.m.  
Dining halls open at 4:30 p.m.
- 27 Registration begins
- 28 Registration
- 30 Classes begin—late registration—schedule revisions
- 31 Last day for schedule revisions and/or late registration

#### September 1984

- 3 Labor Day—no classes
- 17 Twelfth Class Day

#### October 1984

- 11 Last day to drop or withdraw without penalty
- 18 Last day to apply for December graduation  
Last day to pay for diploma; cap and gown

#### November 1984

- 16 Last day to drop or withdraw
- 21 Thanksgiving recess begins at 10 p.m.  
Dining halls close at 6 p.m.  
Dormitories close at 6 p.m.
- 25 Dormitories open at 1 p.m.  
Dining halls open at 4:30 p.m.
- 26 Classes resume at 8 a.m.

#### December 1984

- 12-18 Final examinations
- 19 Dining halls close at 12 noon  
Dormitories close at 12 noon
- 20 Grades for Graduating seniors due by 8:30 a.m.  
All grades due by 4 p.m.
- 21 Associate Degree Commencement
- 22 Baccalaureate and Graduate Degree Commencement

## Spring Semester—1985

### January 1985

- 6 Dormitories open at 1 p.m.  
Dining halls open at 4:30 p.m.
- 7 Registration begins
- 8 Registration
- 10 Classes begin—late registration—schedule revisions  
Schedule revisions—late registration
- 11 Last day for schedule revisions and/or late registration
- 25 Twelfth Class Day

### February 1985

- 20 Last day to drop or withdraw without penalty
- 27 Last day to apply for May graduation  
Last day to pay for diploma; cap and gown

### March 1985

- 1 Spring recess begins at 5 p.m.  
Dining halls and dormitories close at 6 p.m.
- 10 Dormitories open at 1 p.m.  
Dining halls open at 4:30 p.m.
- 11 Classes resume at 8 a.m.

### April 1985

- 5 Last day to drop or withdraw
- 12 Good Friday—No classes

### May 1985

- 1-7 Final examinations
- 8 Dining halls close at 12 noon  
Dormitories close at 12 noon
- 9 Grades for graduating students due by 8:30 a.m.  
All grades due by 4 p.m.
- 10 Associate Degree Commencement
- 11 Baccalaureate and Graduate Commencement

## Summer Session 1985—First Term

### June 1985

- 2 Dormitories open at 1 p.m.  
Dining halls open at 4:30 p.m.
- 3 Registration
- 4 Classes begin—Schedule revisions and/or late registration
- 5 Last day for schedule revisions and/or late registration
- 7 Fourth Class Day
- 17 Last day to drop or withdraw without penalty
- 28 Last day to apply for August graduation  
Last day to pay for diploma; cap and gown

### July 1985

- 2 Last day to drop or withdraw
- 4 Independence Day—no classes
- 10 Last class day
- 12 All grades due by noon

## Summer Session 1985—Second Term

### July 1985

- 11 Registration
- 12 Classes begin—Schedule revisions and/or late registration
- 15 Last day for schedule revisions and/or late registration
- 17 Fourth Class Day
- 25 Last day to drop or withdraw without penalty

### August 1985

- 9 Last day to drop or withdraw
- 16 Last class day  
Grades for graduating students due by 8:30 a.m.  
Dining halls and dormitories close at 6 p.m.  
Associate Degree Commencement
- 17 Baccalaureate and Graduate Degree Commencement  
All grades due by 8:30 a.m.





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# General Information (Lamar University)

## Location

Lamar University, a state-supported institution, is located in Beaumont, Texas, one of the world's largest petrochemical centers. Beaumont is one of the fastest growing and most progressive cities in the Sunbelt. The city offers private and public schools, churches, museums, shopping districts and a wide range of leisure-time activities to serve the metropolis of 130,000. 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, large lakes and the Big Thicket National Preserve.

## History

South Park Junior College was established in 1923 and was controlled by the South Park Independent School District. Classes were conducted in the South Park High School Building. An initial enrollment of about 125 students in 1923 had increased to 300 by 1931.

In 1932, the name of the institution was changed to Lamar College. At this time, separate facilities were provided, additional equipment was purchased and new policies instituted. By 1939, enrollment was approximately 640.

Lamar Union Junior College District was created in 1940, and Lamar College was separated from the South Park Independent School District. Bonds were approved and new facilities were constructed on the site of the present main campus.

A movement to expand Lamar College into a four-year state-supported school culminated in the creation of Lamar State College of Technology on September 1, 1951. Since then, enrollment has increased to more than 14,600 students, and the curriculum has been expanded to include 140 areas of study. Graduate work in specified fields began in the academic year of 1960-61, and extension work became an integral part of the educational program in 1964. A doctoral program in engineering was added in 1971. Lamar University at Orange, offering first and second year courses, opened in 1969. Lamar University at Port Arthur, also offering first and second year courses, began operation in the fall of 1975.

The institution's status as a university became official on August 23, 1971, when the name was changed to Lamar University.

The University's status was again changed when the Texas Legislature passed a bill creating the Lamar University System. The bill was signed into law on June 19, 1983.

## 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 president, administrative officers and faculty.

## Statement of Purpose and Mission

Lamar University is a multi-purpose, state-supported university serving as an educational resource center. The university reaffirms its traditional teaching emphasis to prepare students for careers, for advanced studies, for personal development, and for public service. Further, Lamar University recognizes the importance of scholarly research and public service to its mission of educational leadership.

In keeping with its general purpose, scope, and mission, Lamar University is committed to the following goals:

1. Attract and retain qualified and motivated students including greater representation of those who are especially talented and gifted.

2. Develop broad basic knowledge, values, and skills; modes of critical thinking; and rational attitudes required for problem solving and decision making needed for personal development and effective citizenship.
3. Provide access to appropriate levels of instruction to assist students in meeting career objectives.
4. Offer graduate studies in those fields where need exists and where realistic competence can be achieved.
5. Provide public service, including continuing education programs, where need exists, support is available, and activities are appropriate to the university's mission.
6. Contribute to the broader educational experience of students by participation in effective international and intercultural programs.
7. Enhance the total development of students by providing a wide range of appropriate student activities and services.
8. Contribute to the artistic, cultural, scientific, professional, business and civic life of the region.
9. Contribute to the body of knowledge through research, creativity, and scholarly activity of its faculty.
10. Provide leadership promoting and supporting education, economic growth, cultural and social achievement in Southeast Texas.

## **Accreditation**

Lamar is accredited by the Association of Texas Colleges and Universities, (or a candidate for accreditation) by the Commission on Colleges of the Southern Association of Colleges and Schools and is approved by the Texas Education Agency.

Several departments and programs have been accredited by professional agencies. In the College of Engineering, the departments of Chemical, Civil, Electrical, Industrial and Mechanical Engineering are accredited by the Accreditation Board for Engineering and Technology. The undergraduate programs of the College of Business are accredited by the American Assembly for Collegiate Schools of Business. Other accreditations include the Department of Chemistry by the American Chemical Society; Department of Music by the National Association of Schools of Music; and the Departments of Elementary and Secondary Education by the National Council for the Accreditation of Teacher Education; and 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.

## **Degree Offerings**

**Associate of Arts**

**Associate of Science**

**Associate of Applied Science**

**Bachelor of Arts in Chemistry, Dance, Economics, English, French, Geology, Government, History, Mathematics, Psychology, Sociology, Spanish and Speech.**

**Bachelor of Business Administration in Accounting, Economics, Finance, General Business, Management, Marketing, Office Administration, Pre-law, and Personnel Administration.**

**Bachelor of General Studies**

**Bachelor of Fine Arts in graphic arts, studio art.**

**Bachelor of Music**

**Bachelor of Science in Art, Biology, Chemistry, Criminal Justice, Dance, Education, Energy Resources Management, Environmental Science, Geology, Government, Health Education, Home Economics, Mass Communication, Mathematics, Mathematical Science, Medical Technology, Music, Music Education, Nursing, Oceanographic Technology, Physical Education,**

Physics, Psychology, Sociology, Speech and the following **Engineering Fields**: Chemical, Civil, Computer Science, Electrical, Industrial, Mechanical, Engineering Technology and Industrial Technology.

**Bachelor of Social Work**

**Master of Arts in English, Government and History.**

**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 Biology, Chemistry, Deaf Education, Health and Physical Education, Home Economics, Mathematics, Psychology, Speech, Speech Pathology/Audiology.**

**Master of Public Administration**

**Doctor of Engineering**

## Organization

The University is organized into eight colleges and two branch campuses, each administered by a provost.

These Colleges are Arts and Sciences, Business, Education, Engineering, Fine and Applied Arts, Health and Behavioral Sciences, Technical Arts and Graduate Studies. The branch campuses are located at Orange and Port Arthur, Texas.

## ROTC

The Army Reserve Officers Training Corps (ROTC) conducts a permanent program of instruction on campus to provide eligible male and female 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.

## Teacher Certification

All teacher education programs of the University are approved by the Texas Education Agency. Students seeking teacher certification should consult the Dean of the College of Education regarding requirements.

## 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 4:45 p.m. are considered Evening 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 department of Extramural Education, Room 101 Wimberly Student Services Building.

## **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.

## **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.

## **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.

Mail may be picked up at the general delivery window by those students who do not choose to reserve boxes at the Post Office.

## **Computer Center**

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

The Computer Center has a Honeywell 66/20 computer with 384K words of 36 bit MOS memory and approximately 1.1 billion characters of on-line disk storage. The system supports one card reader, one card punch, two line printers and three tape drives at the main site. Over ninety terminals are available for interactive computer use. Extensive communication equipment can connect up to fourteen synchronous and forty-six asynchronous terminals to the computer concurrently. A remote job entry station with one card reader and one printer is located in the Beeson Technical Arts Building. This station also has a Honeywell Level 6 computer tied in with the main frame computer.

Academic computing work, particularly students in Computer Science courses, accounts for a large portion of the Computer Center's computer usage. Each student is responsible for preparing his or her own program. Most student programs are usually processed within thirty minutes. Key punches are available for punching cards. All jobs are automatically scheduled by the computer which considers computing time and storage requirements as well as other factors. The programming languages supported by the Honeywell computer include: BASIC, FORTRAN, COBOL, PASCAL, ALGOL, LISP, SNOBOL, and APL.

The Computer Science Department has a Digital Equipment Corporation VAX-11/750 computer. There are 1.5 megabytes of main memory, one tape drive, one disk drive and one printer attached to the VAX-11/750. At present, this system can support sixteen asynchronous terminals.

## **The 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 new facilities on the south side of the Lamar University campus in Beaumont, the Institute will continue 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

## 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 Handicapped Services in the Wimberly Student Services room 101A, phone 838-8026.

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 101A Wimberly 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 Heads 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 laboratory scheduled 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 assistant the rate is \$5.00 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 Agency 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 10-18-83.

## **Lamar University at 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.

## **Lamar University at 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, as well as in vocational and technical arts programs.

For additional information, see the Bulletin of Lamar University at Port Arthur.

## **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 six floors with open access to 750,000 volumes. Seating accommodates 1200 students and faculty.

The first floor service areas include circulation, reference, media, 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 and eighth floors offer expansion space for the future, but are presently shared with other University services. Library special collections and a lecture room share the seventh floor with the Public Services Division, Continuing Education programs. The spacious and elegant eighth 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.

## **Office of Public Service**

In addition to providing studies and other services for area business and community organizations, the Office of Public Service conducts on-campus and off-campus instructional programs, for credit and non-credit, with emphasis on adult education. A broad spectrum of vocational and academic courses are offered. Public Service is composed of the departments of Continuing Education and Extramural Education.

## **Lamar Language Institute**

The institute provides non-academic credit instruction for non-native English speakers seeking functional competence for university study or for communication in an English speaking environment outside the academic setting. Classes are offered in the Fall, Spring and Summer semesters of each year.

At the beginning of each session, students are tested to determine what level of study is needed. A post-test at the end of each session is used to determine progress. Students in advanced levels are given the Test of English as a Foreign Language (TOEFL) to determine university admissibility with regard to language proficiency.

Classes are taught four hours a day, Monday through Friday. The curriculum includes pronunciation and conversation, listening comprehension, reading and vocabulary development, and grammar and writing skills. Classes are taught exclusively in English. The



faculty possesses a wide variety of advanced professional training and experience in English language teaching.

To receive the necessary registration forms, write to Lamar Language Institute, P.O. 10023, LUS, Beaumont, TX 77710.

Admission to the Lamar Language Institute does not insure admission to Lamar University.

All forms from students applying from abroad must be received by the LLI no later than July 15 for the fall session; November 15 for the spring session, and April 1, for the summer session.

## **Office of Research and Programs**

The Office of Research and Programs is administered by a director who serves as the chairman of the Faculty Research Council which awards all state financed research projects. Many services for research and program acquisition are offered by this office. Among these are administration of state research funds to encourage "seed" grants which stimulate the development of hypotheses or generate proposals requiring extramural support; a program of public relations with outside agencies, establishing personal contacts with members of units in government, industry, business and private foundations to enhance funding of research grants and programs; providing information about the availability of external support for research and programs; assisting faculty to make application for funds, by providing assistance in developing proposals, by making contact with the appropriate funding agency, and by identifying the best possible sources for support. The Office provides editorial help in the preparation of the application and budget and the arrangement and support of travel for meetings with donors or funding agencies.

## **Spindletop Museum and Gladys City**

The Spindletop Museum, operated by Lamar University, is located in the Educational Services Center, 950 Florida Street. It has artifacts and exhibits on the early days of the oil industry in Texas which began on January 10, 1901, when the Lucas Gusher blew in on a field not far from the present Beaumont campus. An outdoor museum, Gladys City, re-creates the boom town which sprang up at Spindletop following the Lucas discovery. It is located at University and Cardinal Drives. Gladys City may be visited from 1-5 p.m. Sunday through Friday, and from 9 a.m. to 5 p.m. on Saturday. The Spindletop Museum is open from 9 a.m. to 5 p.m. Monday through Saturday and from 1 to 5 p.m. Sunday. Admission to Gladys City is 50 cents for adults, 25 cents for those under 18 years of age and free to Lamar students with their student activity cards. There is no admission charge to the Spindletop 0731 Museum.

## **University Relations and Development Offices**

The University Relations Office was established in 1975, and includes the areas of development, public information and publications and printing.

The Development Office was reorganized in 1975 under the Office of University Relations. It is administered by a Director of Development, and the 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.

## **Alumni Association**

The Lamar University Alumni Association, including 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 at the corner of Georgia and Cunningham Streets.

## **Veterans' Affairs Office**

A Veterans' Affairs Office is maintained in the Wimberly Student Services Building and aids 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.

## 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 College of Technical Arts publish separate bulletins. Graduate Study requires a special application form.

Information on admission to the undergraduate program at Lamar is covered in this section and applies to Lamar University at Orange and Lamar University at Port Arthur as well as to the main campus in Beaumont.

The Office of School Relations, 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 (409/838-8888).

### Requirements for Students Entering From High Schools

An applicant is required to have graduated from an accredited high school and to have submitted entrance examination scores as specified below. Applicants who have attended another college or university cannot disregard that enrollment and seek admission only on the basis of their high school record. 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.)

#### NOTICE

Effective June 1, 1986 Lamar University admissions requirements will be as follows:

1. Students admitted on a regular admissions basis must meet the following prerequisites:
  - a. attainment of a high school diploma from an accredited high school and successful completion of 14 college preparatory courses in high school with a minimum of 2.3 grade-point average including:
    - (1) 4 college preparatory English Courses.
    - (2) 3 college preparatory mathematics courses.
    - (3) 2 laboratory science courses.
    - (4) 2 social studies courses.
  - OR
  - b. attainment of a high school diploma from an accredited high school and achievement of a score of at least 700 on the SAT (Scholastic Aptitude Test) or 15 on the ACT (American College Test).
2. Students failing to meet the above prerequisites may be permitted to attend Lamar University for one probationary semester but must pass with a satisfactory grade any standard English and standard mathematics courses during that probationary semester in order to continue as a regular student.
3. These general admissions standards do not apply to students entering vocational-technical programs.
4. In addition to these general admissions standards, Lamar's pre-professional and professional programs will continue to require separate, more rigorous, standards commensurate with the fields for students beginning their sophomore year.

### Entrance Examination Requirement

Applicants may submit either SAT or ACT scores in fulfillment of the entrance examination requirement. These examinations are required for counseling purposes. A person whose high school class has been graduated for at least seven years is exempt from this test requirement. 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 94704. ACT inquiries should be directed to the American College Testing Program, Box 168, Iowa City, Iowa 52240.

The Test of Standard Written English (TSWE), which is a part of the SAT, is also required of all applicants. Applicants who do not take the SAT will be required to take the TSWE before registration.

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.

### Recommended High School Preparation

Although specific high school credits are not required for admission at this time, the University expects each applicant to be adequately prepared to do academic work above the high school level. It is strongly recommended the following credits be included in the high school program:

English .....	4
Laboratory Sciences .....	2
Algebra .....	2
Geometry .....	1
Social Sciences .....	2

In some fields, foreign language is desirable. Applicants to the College of Engineering are required to have completed a minimum of two credits in algebra and one credit in geometry. In addition, engineers should have one-half credit in trigonometry, one credit in chemistry and one credit in physics. Any deficiencies must be made up after enrollment at the University.

### How To Apply

1. Submit application for admission on the official form. Inclusion of a social security number is required on this form.
2. Take the Scholastic Aptitude Test (October, November or December dates preferred) or the American College Test (October or December dates preferred) and designate this University to receive score reports.
3. Have your complete high school transcript sent to the University Admissions and Records Office immediately following graduation. Seven semester transcripts may be submitted for temporary acceptance, but 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

Certificates of acceptance 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.

## **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 Admissions and Records. Any student who moves during a semester must immediately register his change of address in the office of the dean of student development and in the office of Admissions and Records. Change of address forms are available in the Office of Admissions and 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 Admissions and 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.

## **Graduates of Non-Accredited High Schools**

Applicants who have not graduated from an accredited high school may be admitted if they (1) have graduated in the upper 2/3 of their class, or (2) score 700 or above on the Scholastic Aptitude Test.

## **Freshman Orientation and Registration**

A series of freshman 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 departmental 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. Attendance at each session is limited and advance reservations are necessary. Details of the program including available dates, costs and reservation forms, are sent out following issuance of acceptance notices. Reservations should be requested early so a convenient date may be selected. Parents are invited to attend and to participate in programs designed especially for them. Similar programs are available to new students entering the Spring Semester.

## **Academic Advising**

College advising centers have been established in each college and branch campus to assist students in designing a program of study meeting the degree plan requirements of the department and guides 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 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 Counseling and Testing 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 CLEP (College Level Examination Program).

### **1. Advanced Placement Examinations (Optional)**

Applicants who wish to receive credit for college-level work completed in high school may do so by submitted scores on 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
Chemistry	Score of 3 or above	Chemistry 141
English	Score of 4 or 5	Eng 131-132
	Score of 3	Eng 131 (Student receiving such credit must enroll in Eng 136)
Foreign Language	Score of 4 or 5	12 semester hours of foreign language
	Score of 3	Three semester hours of foreign language
American History	Score of 3 or above	History 231-232*

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

European History	Score of 3 or above	History 131-132
Biology	Score of 3 or above	Biology 141-142
Calculus	Score of 3 or above	Mth 1335, 148 or Mth 134, 1341 or Mth 1335, 236
AB Test		
BC Test	Score of 3 or above	Mth 1335, 148, 149
Physics B	Score of 3 or above	Physics 141-142
Physics C (Mechanics)	Score of 3 or above	Physics 140
Physics C (E & M)	Score of 3 or above	Physics 241
Art	Score of 3 or above	Art 131, 133
Music	Score of 3 or above	MLt 121,122

## 2. Achievement Tests (Optional)

Students who have outstanding high school records or who have 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	English Composition	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 241 with a grade of "C" or better.

## 3. College Level Examination Program (Optional)

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

## Requirements of Students Entering From Other Colleges

To be eligible for unconditional admission, a transfer student must (1) be eligible to re-enter all colleges previously attended, and (2) have an over-all grade point average of C

(2.0). Four grade points are counted for each semester hour completed with a grade of A, three for B, two for C, one for D and none for F.

The records of transfer applicants who meet requirement (1) above, but who are deficient in grade points, are evaluated for admission purposes on the same basis as if the work had been taken at Lamar. A student admitted on probation must remove deficiencies in accordance with the provisions of the section on academic probation and suspension.

Transfer students who have earned less than 18 semester hours of transferable credit also must submit SAT and/or ACT scores, and meet the same requirements as a student entering directly from high school. The University reserves the right to require tests of any student if it appears that scores would be helpful in making the admission decision or would be beneficial for counseling purposes.

International students must meet all of the requirements in the section on International Student Admission.

### **Transfer of Credit**

Credit earned at another accredited institution is acceptable for transfer and may be used to meet degree requirements provided the courses are applicable to the curriculum in which the student enrolls. Some colleges may have individual policies which deny transferable credit for major or core curriculum courses in which a "D" has been earned. An overall grade point average of C (2.0) is the acceptable academic standard of performance. A student who has accumulated a grade point deficiency at another institution(s) and who is admitted on probation, will be required to make up the deficiencies at Lamar. In order to graduate, a student must have a 2.0 grade point average on all work attempted, on all work attempted at Lamar, on all courses in the major, and on all courses which may be counted for the degree.

Students transferring from a junior college are limited to the transfer of 66 semester hours or to the number of hours required by this University during the freshman and sophomore years in the curriculum under which the student enrolls or to the number of hours listed as being acceptable for transfer in a published degree program.

Grades from other institutions are recorded as received. No grade is changed.

### **How To Apply for Admission**

The following procedure should be followed in making application for admission. All credentials should be sent to the Office of Admissions and Records, Lamar University, Box 10010, Beaumont, TX 77710.

1. Submit application for admission on the official form. Inclusion of a social security number is required on this form.
2. Submit official transcripts from each college previously attended. This requirement applies regardless of the length of time in attendance and regardless of whether credit was earned or is desired.
3. If entrance examination scores are required, take the prescribed entrance tests and/or have a record of test scores sent to the Office of Admissions and Records.

### **When To Apply**

Application should be made well in advance two or three months of the proposed enrollment date, if possible.

The application form should be submitted before transcripts are sent. Transcripts normally should be sent after all work to be transferred is completed. A temporary admission may be granted if the time interval between the end of a semester elsewhere and the beginning of a subsequent semester at this University is too short for the transcript to be submitted before registration. However, all credentials must be on file within one week of the first day of class or the student will be withdrawn. Students on temporary admission, who are subsequently found to be ineligible for admission, will be withdrawn.

In some cases, questions regarding transfer need to be clarified while work is still in progress at another institution. Under these circumstances, the partial transcript should be submitted and a supplementary transcript furnished at the end of the semester. The student must have complete credentials within one week or be withdrawn.

## **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 under suspension must obtain clearance from the dean of their major to determine if they can be eligible for re-admission.

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. No credentials are required unless specifically requested in individual cases. 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 Nondegree Students**

A high school graduate who has not attended high school during the past three years and who is at least 21 years of age may enter Lamar University as an adult nondegree student by submitting his/her high school transcript and application for admission.

## **Admission by Individual Approval**

A non-high school graduate who is 19 years of age or older, and whose high school class has been graduated for at least one year, may apply for admission as an individual approval student: Applicants must furnish evidence of preparation substantially equivalent to that required of other applicants. They must possess the aptitude and the seriousness of purpose to pursue a college course of study successfully.

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

## **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 exempted 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 Admissions 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 Ad-

missions and 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; 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 Admissions and 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 IRS.

## **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 activity and organizational programs — so as to experience more fully the culture and lifestyles of south-east Texas. It is the student's responsibility to integrate himself 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. Scores of 500 or above on the Test of English as a Foreign Language (TOEFL) are required along with scores on the Scholastic Aptitude Test (SAT). SAT scores may be waived for students who have completed a post-secondary academic degree with above average grades.

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.



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. All students are required to submit the official Health Data Form. 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: June 15 for Fall Semester; November 1 for Spring Semester; and March 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 and Records.

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. An orientation fee of \$20 is charged and is payable to Lamar University, c/o Director of International Orientation, P.O. Box 10006, Lamar U. Station, Beaumont, Texas 77710, U.S.A. The program is designed to facilitate a smoother, less problematic 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.

## **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 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 program, an applicant must (1) have completed the junior year in an accredited high school; (2) have at least a B+ 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, and (4) be recommended by the high school counselor or principal. 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 joint approval of high school official and the Lamar Director of Admissions.

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

## **Student 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 and eligibility criteria can be obtained from the Office of Student Aid, P.O. Box 10042, Lamar Station, Beaumont, Texas 77710.

### **When To Apply**

Applications should be completed by March 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 March 1 deadline.

### **How To Apply**

Lamar University requires all students applying for aid to file the General Application for Student Aid. Students wishing to be considered for scholarships only should request the Scholarship Application. Students should be aware that scholarship funds are limited and recipients normally must have a grade point average in excess of 3.50 to be considered.

Students wishing to apply for grants, loans and/or work-study employment must also file the Financial Aid Form with the College Scholarship Service to determine the degree of need. Since the processing of this form requires between three and four weeks those students planning to meet the March 1 deadline should file about February 1.

After the application is complete the Student Aid Office will consider the student's academic record and potential as well as substantiated degree of need. The amount and type of assistance will be determined by the staff of the Student Aid Office.

### **Minimum Qualifications**

Scholarship awards to entering freshmen are determined by the applicant's scores on the Scholastic Aptitude Test (SAT) or American College Testing Program (ACT), leadership and high school class rank. Scholarship awards for upperclassmen are determined by their cumulative grade point average at the college level. Scholarship applicants must have a combined score of 900 on the SAT or composite score of 20 on the ACT plus a grade point average in excess of 2.5 to be eligible for a university administered scholarship.

Those applying for need-based grants, loans or work-study employment have their eligibility established by the Financial Aid Form.

Applicants should arrange to have SAT or ACT test scores on file with Lamar University Admissions Office and have the General Application and Financial Aid Form calculation on file in the Student Aid Office. Freshmen may be able to obtain required forms from their high school counselors or directly from the Student Aid Office, P.O. Box 10042, Beaumont, Texas 77710. Students currently enrolled at Lamar may obtain the forms from the Student Aid Office, Wimberly Student Services, Room 216. Students must re-apply each year for consideration for continued assistance.

### **Grants**

The Pell Grant (BEOG) is the foundation source for all other aid programs. All applicants are required to submit the Student Eligibility 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 Eligibility Report to be sent to the student's address. The student should then send the Student Eligibility Report to the Student 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 which cover 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. The scholarship program at Lamar University is financed solely by public donation. 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 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 National Direct Student Loan Program, the Federally Insured Student Loan Program, and the Hinson-Hazelwood College Student Loan Act. Those interested in one of these loan programs should contact the Student 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 which 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. Fees are not exempt. During registration, valedictorians should report to the scholarship station 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.

# 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 are paid in full. Payment may be made by check, money order or currency. Checks and money orders, not in excess of total fees, should be made payable to Lamar University and will be accepted subject to final payment. 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).

## Summary of Registration Expenses

Each student must plan a budget carefully. It is possible to attend Lamar on a modest sum and yet participate in most phases of the university program. To assist in planning registration expenses, the following estimate is furnished as a guide.

### Texas residents taking a 15 hour academic work load\*:

Tuition .....	\$60
Student Services Fee .....	60
General Use Fee .....	90
Setzer Student Center Fee .....	20
Student Health Fee .....	15
Parking Fee (if desired) .....	15
Health Insurance (if desired) .....	45
Books (estimated) .....	160
	-----
	\$465
	+ lab fees

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

Tuition .....	\$50
Student Services Fee .....	30
General Use Fee .....	36
Setzer Student Center Fee .....	20
Student Health Fee .....	6
Parking Fee (if desired) .....	15
Books and Incidentals (estimated) .....	80
	-----
	\$237
	+ lab fees

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

\*Tuition for Texas residents taking 12 hours or less is \$50 per semester. Each additional semester hour is \$4 per hour. A full-time student is one who takes 12 or more semester hours of course work.

## Summary of Fees

Additional fees and charges which are applied on a selective basis are listed following the Summary of Fees.

Term	No. of Semester Hours	Tuition		Student Services Fee	General Use Fee	Setzer Center Fee	Health Center Fee	Total Charge	
		A	B					A	B
Each	1	\$50	\$ 40	\$ 20	\$20	\$20	\$ 5	\$ 115	\$ 105
Fall	2	50	80	25	20	20	5	120	150
or	3	50	120	30	20	20	5	125	195
Spring	4	50	350	16	24	20	5	134	244
Semester	5	50	400	20	30	20	5	145	295
	6	50	240	45	36	20	6	157	347
	7	50	280	50	42	20	7	169	399
	8	50	320	55	48	20	8	181	451
	9	50	360	60	54	20	9	193	503
	10	50	400	60	60	20	10	200	550
	11	50	440	60	66	20	11	207	597
	12	50	480	60	72	20	12	214	644
	13	52	520	60	78	20	13	223	691
	14	56	560	60	84	20	14	234	738
	15	60	600	60	90	20	15	245	785
	16	64	640	60	90	20	15	249	825
	17	68	680	60	90	20	15	253	865
	18	72	720	60	90	20	15	257	905
	19	76	760	60	90	20	15	261	945
	20	80	800	60	90	20	15	265	985
Each	1	\$25	\$ 40	\$ 9	\$20	\$10	\$ 1	\$ 76	\$ 91
Six	2	25	80	25	20	10	2	82	137
Week	3	25	120	30	20	10	3	88	183
Summer	4	25	160	30	24	10	4	93	220
Session	5	25	200	30	30	10	5	100	275
	6	25	240	30	36	10	6	107	322
	7	28	280	30	42	10	7	117	369
	8	32	320	30	48	10	8	128	416
	9	36	360	30	54	10	9	139	463
	10	40	400	30	60	10	10	150	510

Code: A. U.S. citizens who are legal residents of Texas under tuition law; B. (1) U.S. citizens who are not legal residents of Texas under tuition law, and (2) aliens from non-exempt countries.

## 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; a nonresident U.S. citizen; or a citizen of another country. 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.

## Private Lessons in Voice and Instrumental Music

One half-hour lesson per week .....	\$18
Two half-hour lessons per week .....	36

## **Late Registration Fee**

A charge of \$5 is made during the first day of late registration, \$10 for the second day and \$15 for the third and following days.

## **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.

## **Health and Accident Insurance**

Health and accident insurance coverage is available at registration for regularly enrolled students. The fee is estimated at \$45 per long semester. This or similar insurance is required of all international students. Additional information may be obtained from the Dean of Students' office, Room 109, Wimberly Student Services Building.

## **Special Fees**

Fees will be set by the University for courses in which special plans must be prepared and specialists secured as instructors.

## **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 \$100. 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, and general use fee. This applies to those who served in World War I, World War II, the Korean Conflict or the Vietnam War and were honorable 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 ten 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 or Health 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.

Students who may have classes both on campus and off campus will have health fee based on the number of hours on main campus.

Example of the above where fees are waived are:

- (a) Field Center Courses
- (b) Summer trips for credit
- (c) Vocational Nursing courses which conduct all their classes at the hospital.
- (d) COOP students, for semester when they are not taking classes on campus. (Only pay tuition because Board of Regents have waived student service and general use fee.)

Example where fees are not waived:

- (a) Student enrolled only for thesis course (Pays only \$25 for tuition.) plus all other normal fees.
- (b) Student enrolled only for a special project course.

## Faculty and Staff with Activity Cards

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

## Refund of Fees-Withdraw Refunds

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 per cent.
2. During the first five class days, 80 per cent.
3. During the second week of the semester, 70 per cent.
4. During the third week of the semester, 50 per cent.
5. During the fourth week of the semester, 25 per cent.
6. After the fourth week of the semester, none.

### Summer Session

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

## Drop Course Refunds

All students who drop courses during the first 12 class days of the Fall or Spring Semester, or within the first four days of a Summer Session, and remain enrolled at Lamar University, will receive a refund on tuition and fees for that particular course or courses.

All questions regarding refunds should be directed to the Finance Office.

## Returned Check Fees

A student 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 \$10.

## Miscellaneous Fees

Associate Diploma .....	\$12.00
Certificate of Completion .....	12.00
Bachelor's Diploma .....	12.00
Master's Diploma .....	12.00
Ph.D.'s Diploma .....	12.00

Bachelor's Cap and Gown (disposable).....	15.50
Master's Cap, Gown and Hood Rental.....	25.50
Ph.D.'s Cap, Gown and Hood Rental.....	27.50
Returned Checks (Bookstore).....	10.00
Re-entry fee.....	5.00
Transcript Fee.....	2.00
Advanced Standing Examination (per course).....	5.00
Photo Identification.....	2.00
Lost Photo I.D.....	5.00
Swimming Pools (suits and towels) Per Semester.....	15.00
Copy of Fee Receipt.....	50

## 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.

## Rules and Regulations for 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 classification officially determined and (2) to register under the proper classification.

Pertinent sections of the Texas statutes governing residence for tuition purposes follow. More detailed information on both the law and its interpretations may be obtained from the Office of Admissions and Records.

## Pursuant to Title 3, Texas Education Code.

### Effective July 20, 1979

#### 1 Minors

Statute: Section 54.052(a)(3) Dependent 1728 means an individual who is claimed as a dependent for federal income tax purposes by the individual's parent or guardian at the time of registration and for the tax year preceding the year in which the individual registers.

Section 54.052 (c) An individual, who is eighteen (18) years of age, or is a dependent and who is living away from his family, and whose family resides in another state or has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student:

Section 54.052 (d) An individual who is eighteen (18) years of age or under or is a dependent and whose family has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student, regardless of whether he has become the legal ward of residents of Texas or has been adopted by residents of Texas while he is attending an educational institution in Texas, or within a 12-month period before his attendance, or under circumstances indicating that the guardianship or adoption was for the purpose of obtaining status as a resident student.

Section 54.055 An individual who is eighteen years of age or under or is a dependent and whose parents were formerly residents of Texas is entitled to pay the resident tuition fee following the parents' change of legal residence to another state, as long as the individual remains continuously enrolled in a regular session in a state-supported institution of higher education.

#### 2 Residence of Individuals Over Eighteen

Statute: Section 54.052 (e) An individual who is eighteen (18) years of age or over who has come from outside Texas and who is gainfully employed in Texas for a 12-month period immediately preceding registration in

an educational institution shall be classified as a resident student as long as he continues to maintain a legal residence in Texas.

Section 54.052 (f) An individual who is eighteen years of age or over who resides out of the state or who has come from outside Texas and who registers in an educational institution before having resided in Texas for a 12-month period shall be classified as a nonresident student

Section 54.054 A nonresident student classification is presumed to be correct as long as the residence of the individual in the state is primarily for the purpose of attending an educational institution. After residing in Texas for at least twelve (12) months, a nonresident student may be reclassified as a resident student as provided in the rules and regulations adopted by the Coordinating Board, Texas College and University System. Any individual reclassified as a resident student is entitled to pay the tuition fee for a resident of Texas at any subsequent registration as long as he continues to maintain his legal residence in Texas.

#### 3 Married Students

Statute: Section 54.056 A nonresident who marries and remains married to a resident of Texas, classified as such under this Act at the time of the marriage and at the time the nonresident registers, is entitled to pay the resident tuition fee regardless of the length of time he has lived in Texas, and any student who is a resident of Texas who marries a nonresident is entitled to pay the resident tuition fee as long as he does not adopt the legal residence of the spouse in another state.

#### 4 Military Personnel and Veterans

Statute: 54.058 (a) Military personnel are classified as provided by this section in the following manner:



- (b) An officer, enlisted man or woman, selectee or draftee of the Army, Army Reserve, Army National Guard, Air National Guard, Texas State Guard, Air Force, Air Force Reserve, Navy, Navy Reserve, Marine Corps, Marine Corps Reserve, Coast Guard, or Coast Guard Reserve of the United States, who is assigned to duty in Texas is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fee and other fees or charges required of Texas residents without regard to the length of time he has been assigned to duty or resided within the state. However, out-of-state Army National Guard or Air National Guard members attending training with Texas Army or Air National Guard members under National Guard Bureau regulations may not be exempted from nonresident tuition by virtue of that training status nor may out-of-state Army, Air Force, Navy, Marine Corps, or Coast Guard Reserves training with units in Texas under similar regulations be exempted from nonresident tuition by virtue of such training status. It is the intent of the legislature that only those members of the Army or Air National Guard, Texas State Guard, or other reserve forces mentioned above be exempted from the nonresident tuition fee and other fees and charges only when they become members of Texas units of the military organizations mentioned above.
- (c) As long as they reside continuously in Texas, the spouse and children of a member of the Armed Forces of the United States who has been assigned to duty elsewhere immediately following assignment to duty in Texas are entitled to pay the tuition fees and other fees or charges provided for Texas residents.
- (d) A Texas institution of higher education may charge to the United States Government the nonresident tuition fee for a veteran enrolled under the provisions of a Federal law or regulation authorizing educational or training benefits for veterans:
- (e) The spouse and children of a member of the Armed Forces of the United States who dies or is killed are entitled to pay the resident tuition fee, if the wife and children become residents of Texas within 60 days of the date of death: and
- (f) If a member of the Armed Forces of the United States is stationed outside Texas and his spouse and children establish residence in Texas by residing in Texas and by filing with the Texas institution of higher education at which they plan to register a letter of intent to establish residence in Texas, the institution of higher education shall permit the spouse and children to pay the tuition, fees, and other charges provided for, Texas residents without regard to length of time that they have resided within the State.

#### 5 Employees of Institutions of Higher Education Other Than Students

Statute: Section 54.059 A teacher, professor, or other employee of a Texas institution of higher education is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fee and other fees or charges required for Texas residents without regard to the length of time he has resided in Texas. A teacher, professor, or other employee of a Texas institution of higher education is any person employed at least one-half time on a regular monthly salary basis by a state institution of higher education.

#### 6 Student Employees

Statute: Section 54.051 (o) A teaching assistant, research assistant, or other student employee of any institution covered by this section is entitled to register himself, his spouse, and their children, in a state institution of higher education by paying the tuition fees and other fees or charges required for Texas residents, without regard to the length of time he had resided in Texas; provided that said student employee is employed at least one-half time in a position which relates to his degree program under rules and regulations established by the employer institution. This exemption shall continue for students employed two consecutive semesters

through the summer session following such employment if the institution is unable to provide employment and, as determined under standards established by the institution, if the employee has satisfactorily completed his employment.

#### 7 Competitive Scholarships

Statute: Section 54.051 (p) A student who holds a competitive scholarship of at least \$200 for the academic year or summer for which he is enrolled and who is either a nonresident or a citizen of a country other than the United States of America is entitled to pay the fees and charges required of Texas residents without regard to the length of time he had resided in Texas, provided that he must compete with other students, including Texas residents for the scholarship and that the scholarship must be awarded by a scholarship committee officially recognized by the administration of the institution of higher education.

#### 8 Reciprocity Clause Applicable to Junior Colleges, Upper Level Institutions.

Statute: Section 54.060. Resident of Bordering State: Tuition. The non-resident tuition fee prescribed in this chapter does not apply to a nonresident student who is a resident of a state situated adjacent to Texas and who registers in any Texas public junior college situated in a county immediately adjacent to the state in which the nonresident student resides. The nonresident junior college student described in this section shall pay an amount equivalent to the amount charged a Texas student registered at a similar school in the state in which the nonresident student resides. The nonresident student described in this section shall pay equivalent fees and charges to those charged Texas students registered at a similar institution in the state in which the nonresident student resides, when such student registers at a Texas public senior upper level (those institutions offering only junior, senior, and graduate level programs) institution of higher education located within Texas public junior college district from which the nonresident student has graduated or completed 45 semester credit hours.

#### 9 Waiver of Nonresident Tuition by Junior Colleges

Statute: Section 130.003(b) (4) ...the governing board of a public junior college district may waive the difference in the rate of tuition for nonresident and resident students for a person, and his dependents, who owns property which is subject to ad valorem taxation by the junior college district...

#### 10 Citizens of Any Country Other Than the United States of America

Statute: Section 54.057 An alien who is living in this country under a visa permitting permanent residence or who has filed with the proper Federal immigration authorities a declaration of intention to become a citizen has the same privilege of qualifying for resident status for fee purposes under this Act as has a citizen of the United States. A resident alien residing in a junior college district located immediately adjacent to Texas boundary lines shall be charged the resident tuition by that junior college.

#### 13 Penalties

Statute: Section 54.053 The governing board of each institution required by this Act to charge a nonresident tuition or registration fee is subject to the rules, regulations, and interpretations issued by the Coordinating Board, Texas College and University System, for the administration of the nonresident tuition provisions of this Act. The rules, regulations, and interpretations promulgated by the Coordinating Board shall be furnished to the presidents or administrative heads of all Texas public senior and junior colleges and universities.

Section 54.061 The governing board of an institution of higher education may assess and collect from each nonresident student who fails to comply with the rules and regulations of the boards concerning nonresident fees a penalty not to exceed \$10 a semester.

# 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. The second figure indicates the number of semester hours credit. The third figure (or figures) indicate 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 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 Bulletin. It is expected that a listing of these courses will appear in the next Bulletin 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 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.

## Maximum Course Loads

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

## Minimum Class Enrollment

The University reserves the right not to offer any course listed in this bulletin 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.

## 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.

## Postponed Examinations

Arrangements for taking postponed examinations are made with the instructor concerned, but must be approved by the instructor's department head. Such arrangements should be made at least 48 hours before the examinations.

## 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.

## Remedial English Course

All new freshmen who score 35 or less on the Test for Standard Written English (TSWE) are required to complete satisfactorily English 137 - Developmental Reading and Writing before being permitted to enroll in English 131 - Composition.

A new freshman student who scores 35 or below on the TSWE and wishes to appeal the score may request a written examination administered on the Main Campus by the Director of Freshman English and on the branch campuses by English teachers designated by the chief academic officers of the branch campuses. If the written examination is judged satisfactory, the student will be permitted to enroll in English 131. If the written examination is judged unsatisfactory the student shall enroll in English 137 or may appeal the decision through normal academic administrative channels.

University policy requiring that all full-time students register for freshman English until credit for six semester hours has been earned also applies to students who are not eligible to enroll in English 131 because of their TSWE scores; therefore, such full-time students must enroll in English 137. The student who does not successfully complete English 137 must repeat the course until a satisfactory grade (S) is received.

Students enrolled in English 137 shall receive grades as follows.

- a. S if they score 36 or more on a post-test using the TSWE and write a satisfactory paragraph.
- b. F if they score 35 or less on a post-test using the TSWE and/or do not write a satisfactory paragraph.

- c. I if they obtain approval of the instructor when the course requirements will not be completed.
- d. Q if they drop the course prior to the penalty date or if they are passing at the time of the drop.
- e. W if they withdraw prior to the penalty date or if they are passing at the time of the withdrawal.

## **Physical Activity Course Registration Requirement**

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

1. Those who are unable to participate in a regular or modified activity course because of physical handicaps (must have written exemption from the University physician).
2. Those who choose active participation in the marching band or ROTC for four 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 freshman year courses in physical education, but must take two semesters of physical education at the sophomore level to complete the requirements for graduation.

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 counselor 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, LU Station.

## **Changing Schedules**

All section changes, adds and drops must be approved by the department head of the student's major field. All such changes are initiated by the completion of the proper form available in the department head's office. Usually, a course may not be added after the first two days of the Fall-Spring semester or first two days of a Summer Session.

## **Dropping Courses**

After consultation with their advisor and/or department head, 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 Admissions and Records. A student may not drop a course within ten class days of the beginning of final examinations or five class days before the end of the summer term.

## **Instructor Initiated Drop**

When absences, other than approved absences, interfere seriously with the student's performance, the instructor may recommend to the department head 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 the student was dropped for the reason of excessive unexcused absences.

## **Reinstatement to Class**

A student may be reinstated to class upon written approval on the official form by major Department Head, Instructor of course and the Instructor's Department Head.

## **Withdrawals**

Students wishing to withdraw during a semester or summer term should fill out a Withdrawal Petition in triplicate in the office of their department head. Students must clear all financial obligations, and return all uniforms, books, laboratory equipment and other materials to the point of original issue. Three copies of the withdrawal form signed by the department head, the director of library services and the Director of Retention, are presented to the Office of Admissions and Records by the student.

The Finance Office, on application before the end of the 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 ten class days of the beginning of final examinations 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.

## **Enforced Withdrawal Due to Illness**

The director of the health center and the vice-president for student affairs, on the advice of competent medical personnel, may require withdrawal or deny admission of a student for health reasons (mental or physical).

## **Transfer from One Department to Another**

Students wishing to change their majors must have the approval of the head of the department of their former major area and approval of the head 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 colleges of the University, including the College of Technical Arts, may be applied to degree programs of the University when such credit is appropriate to established programs.

## **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 courses to be taken. Such approval can be granted only if all Lamar University academic policies are adhered to by the coursework 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 head. A permit signed by the department head must be filed in the Office of Admissions and 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; (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 head and filed in the Office of Admissions and Records no later than the last date to apply for graduation.

Seniors must file correspondence transcripts 14 days before graduation.

Credit by correspondence for a course failed in residence will not be accepted toward graduation.

## **Credit by Examination**

### **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 head. 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 Admissions and 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.

Except for satisfying the coursework-in-residence and the state-mandated American History and American Government requirements, credit earned by examination is equivalent to credit earned by taking the course and may be used to satisfy bachelor's degree requirements. Credit will be awarded only when the student is already enrolled at Lamar at the time of the examination or when the student enrolls at Lamar after taking the examination.

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 the Dean of Admissions and Registrar or from the Counseling and Testing Center.

## **Academic Progress**

### **Classification of Students**

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

**Freshman:** has met all entrance requirements but has completed fewer than 30 semester hours.

**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.

**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 9 or more semester hours in Fall/Spring (3 or more in a summer term). Some sources of student financing reduce payments to students dropping below full-time status.

### Grading System

**A — Excellent**

**W — Withdrawn**

**B — Good**

**Q — Course was dropped**

**C — Satisfactory**

**S — Credit**

**D — Passing**

**U — Unsatisfactory, no credit**

**F — Failure**

**NG — No grade**

**I — Incomplete**

The grade of W or Q is given if the withdrawal or drop is made before the penalty date (see Dropping 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 Admissions and 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 Admissions and 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 major Department Head, Instructor and Instructor's Department Head and Admission and Records Verification. Student semester hours attempted will be reduced by appropriate number of hours.

### 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 arts 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 Admissions and 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.

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 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.

### **Deans' List**

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

### **Scholastic Probation and Suspension**

Students are expected to make acceptable scholastic progress toward their degree objectives. A "C" is the minimum satisfactory grade and a "C" average or 2.0 grade point average (G.P.A.), constitutes satisfactory performance. Since two grade points are awarded for each semester hours of "C", students are in good standing if they have earned at least twice as many grade points as 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.

All students with a grade point deficiency of 25 or more grade points at the end of the Fall or Spring Semester shall be suspended.



Students suspended from the Fall or Spring Semester by this action may, however, 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 and the end of the Fall, Spring, or Summer Session must obtain approval for probationary re-enrollment from the dean of their respective college.

A college, with the approval of the vice president for academic 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 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) thirty 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 head and shall follow regular channels to the vice president for academic affairs for a final decision. Endorsements and/or recommendations shall be required at each academic level. When approved by the vice president for academic affairs, disregarded work shall not count in determining the student's grade point average for academic progress or for graduation; however, 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. Meet the following minimum requirements:
  - a. A grade point average of at least 2.0 both on all courses in the major field and on all courses attempted.
  - b. 120 semester hours not including required activity courses in physical education, marching band, and/or ROTC.
    - (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 levels hours must be completed at Lamar University.
    - (3) 24 semester hours in a major field with at least 12 in upper division courses.
    - (4) 6 semester hours in government. (see note 1)
    - (5) 6 semester hours in American history. (see note 2)
    - (6) 12 semester hours in English (not to include English 137) including 6 semester hours in freshman composition and 6 semester hours in literature. Three semester hours of technical report writing or 3 semester hours of speech communication or 3 semester hours of foreign language may be substituted for 3 hours of literature. (see note 3)
    - (7) Four courses in laboratory science or mathematics, to include one course in laboratory science and at least one course in mathematics which may be satisfied by satisfactorily completing one of the following courses:
      - (a) Mth 1334, College Algebra
      - Mth 1335, Precalculus Mathematics
      - Mth 1336, Survey of Mathematics
      - Mth 134, Mathematics for Business Applications

Mth 1341, Elements of Analysis for Business Applications

Mth 148, Calculus and Analytic Geometry I

Mth 149, Calculus and Analytic Geometry II

- (b) Any Course at the sophomore level or higher; namely, any course beginning with a digit of 2 or greater.
- (8) 4 semesters of physical activity and/or marching band and/or ROTC. (see note 4)
  - (9) 6 semester hours of electives from disciplines outside ~~2439~~ the major field.
  - (10) No more than 18 semester hours of correspondence work and no more than 30 semester hours of correspondence and extension work combined may be applied to the bachelor's degree.
3. Complete the program of study as listed in the bulletin.
  4. Make application for the Bachelor Degree and pay all designated fees.
  5. Attend the official graduation exercises or receive prior approval from the Dean of Admissions and Registrar to be absent.

### **Second Bachelor Degree**

When another bachelor's degree is taken simultaneously, or has been taken previously, the second bachelor's degree may be granted upon the completion of all required work for the second degree. A total of 30 semester hours above the number required for the degree having the greater semester hour requirement 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 Science Degree**

1. Meet the University's general education requirements for a bachelor degree.
2. Meet the specific requirements of the selected program of study as listed in the department concerned.

### **Bachelor of Business Administration Degree**

1. Meet the University's general education requirements for a bachelor degree.
2. Meet the specific requirements of the selected program of study as listed in the department concerned.

### **Bachelor of General Studies Degree**

1. Meet the University's general education requirements for a bachelor degree.
2. Meet the specific requirements of the selected program of study as listed in the department 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 college of dentistry or medicine.
4. Formally apply for the degree before August graduation deadline.

**Associate of Arts Degree (A.A.)**

1. Satisfy all admission conditions.
2. Meet the following minimum requirements:
  - a. 30 semester hours in residence at Lamar University. Twelve semester hours of this minimum must be earned after May 1972, and after reaching sophomore classification.
  - b. A grade point average of at least 2.0 on all work attempted.
  - c. 60 semester hours not including required activity courses in health and physical education, marching band and/or ROTC.
  - d. Six semester hours in government.(see note 1)
  - e. Six semester hours in American history.(see note 2)
  - f. Nine semester hours in English (not to include English 137), including six semester hours of freshman composition and three semester hours of literature.(see note 3)
  - g. Two courses in laboratory science or mathematics.
  - h. Two semesters of physical education activity and/or marching band and/or ROTC.(see note 4)
3. Complete the course numbered 232 in a foreign language.
4. Complete an Associate of Arts program of study as outlined in the bulletin.
5. No more than a total of 15 semester hours of correspondence and extension credit may be applied toward the degree.
6. Make application for the Associate of Arts degree and pay all designated fees.

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

1. Satisfy all admission conditions.
2. Meet the following minimum requirements:
  - a. 30 semester hours in residence at Lamar University. Twelve semester hours of this minimum must be earned after May 1972; and after reaching sophomore classification.
  - b. A grade point average of at least 2.0 on all work attempted.
  - c. 60 semester hours not including required activity courses in health and physical education, marching band and/or ROTC.
  - d. Six semester hours in government.(see note 1)
  - e. Six semester hours in American history.(see note 2)
  - f. Nine semester hours in English (not to include English 137), including six semester hours of freshman composition and three semester hours of literature.(see note 3)
  - g. Two courses in laboratory science or mathematics.
  - h. Two semesters of physical education activity and/or marching band and/or ROTC.(see note 4)
3. Complete an Associate of Science program of study as outlined in the bulletin.
4. No more than a total of 15 semester hours of correspondence and extension credit may be applied toward the degree.
5. Make application for the Associate of Science degree and pay all designated fees.

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

1. Satisfy all admission requirements.
2. Complete an approved degree plan.
3. 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.
4. Complete 24 semester hours of major work at Lamar with 12 hours in 200 level courses.
5. Make final application for graduation and pay all fees by the deadline date as stated in the current bulletin.

## Second Associate Degree

When another associate degree is taken simultaneously, or has been taken previously, the second associate degree may be granted upon the completion of all required work for the second degree. A total of 15 semester hours above the number required for the degree having the greater semester hours requirements must be completed.

### Degree Requirement Notes:

1. Texas law requires six hours in government, which includes consideration of the U.S. Constitution and that of Texas. This shall normally be satisfied by completing Government 231 and 232 or other appropriate government courses approved by the head of the Government Department. Three semester hours may be satisfied by an advanced standing examination.
2. Texas law requires six hours in American History. This normally shall be satisfied by completing two courses in the History 231-236 sequence or other appropriate history courses approved by the head of the History Department. Three semester hours may be satisfied by a course in Texas History or by an advanced standing examination.
3. A score of 35 on the Test for Standard Written English or satisfactory completion of the developmental English course (English 137) is a prerequisite to admission to English 131. Students who do not qualify for enrollment to English 131 classes through the application of these standards may petition the Board of Regents through the Office of the President for exemption from enrollment qualifications.
4. All full-time students must register for physical activity courses until they have met the requirement except as follows:
  - a. Those with physical handicaps who have written exemptions from the University physician.
  - b. Those who enroll in marching band and/or ROTC for four semesters.
  - c. Those who are 25 or more years of age, at their option.
  - d. Those veterans who have completed basic training in military service may be exempted from the freshman courses in physical education. Two semester courses at the sophomore level must be completed to meet graduation requirements.  
Students exempt from the physical education requirements must submit elective hours approved by their major department in lieu of the requirement.

## Graduation

### Application for Graduation

Applications for graduation must be filed with the Office of Admissions and Records. The current University Calendar contains exact dates.

Before final approval of these applications, the following supplementary materials must be submitted:

1. Statements showing reasonable expectation of completion of degree requirements by graduation time.
2. Transcript showing grade point average of at least 2.0 on all courses taken and applied to meet degree requirements. A course is counted each time taken whether failed or passed.
3. Receipt showing payment of cap and gown and diploma fees.
4. Clearance of all financial and property matters to date.
5. Approval of the department sponsoring the student.

The application of a student lacking a grade point average of 2.0 on either overall or in the student's major field will be removed from the graduation list at the beginning of the semester.

If a student under such condition does complete all degree requirements, the student may apply for a statement of such completion and appear for the next graduation date.

The student is responsible for making the application, for securing official advisement about study plans for the last two semesters, and for checking compliance with all degree requirements with the Office of Admissions and Records.

### **Graduation Under a Particular Bulletin**

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

A bulletin more than seven years old shall not be used.

The program of the student who interrupts enrollment (for reasons other than involuntary military service) for more than one calendar year shall be governed by the bulletin 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 changes major from one department to another within the University shall be governed by the degree requirements in effect at the time the change of major becomes effective.

At the discretion of the dean, the student will be required to comply with all changes in the curriculum made subsequent to the year in which the student is 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.

Any first-time college student who entered a junior college on or after September 1, 1968, can qualify, upon transfer to Lamar University, to graduate under the Lamar University bulletin in effect when the student entered the junior college if the core curriculum provisions of the Coordinating Board are followed. Students are subject to the requirement if they interrupt their studies for more than one calendar year at the junior college or before transfer to Lamar University, they must qualify for graduation under the bulletin in effect when they return to the junior college or enroll at Lamar University. This policy became effective for the year 1974-75.

### **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 "honors," 3.65 to 3.79 for "high honors" and 3.80 to 4.00 for "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

## Counseling Center

Lamar University maintains a Counseling Center located in 116 Wimberly Student Services Building that offers a full range of services to students. In this central resource location, professional staff are available to provide educational, diagnostic and career testing; instruction for and access to individual computer-assisted career exploration; educational, personal, social, career, and vocational counseling; and assessment and referral to student development programs including those of Special Services and Learning Skills. The center is staffed with a fully-licensed and qualified psychologist and licensed and certified counselors to assist in the resolution of student problems and questions.

While the Counseling Center does not address problems of a long-term therapeutic nature, students encountering difficulties are encouraged to consult the office on a no-charge basis. All contacts are maintained as confidential and there are no entries made in the student's records. In order to assist students in making decisions concerning choices of majors and careers, the Counseling Center maintains a computerized career information system SIGI, a computerized guidance system, and a career library.

The Center coordinates testing required by Lamar University and provides individual testing services for students. These services include the administration and interpretation of vocational interest and personality tests. The office also acts as a National Test Center for administration of the Graduate Record Examination, Law School Admission Test, Graduate Management Admission Test, Scholastic Aptitude Test (SAT), American College Testing Program (ACT), College Level Examination Program (CLEP), General Educational Development Test (High School Equivalency Test), the Miller's Analogies Test, and the Pre-Professional Skills Test. Information and application forms concerning these tests may be obtained from the Counseling, Career, and Learning Center.

## Health Center

The University maintains a Health Center for use by Lamar students. Two types of service are available: (1) outpatient service care of illness or injury that do not require constant supervision, and (2) infirmary service for those in need of continued medical attention.

It is not possible for the University to provide unlimited medical service. Special medicines, examinations, treatments, x-rays, and laboratory tests are not furnished. However, certain laboratory tests are available from private laboratories at a reasonable cost upon request by the Health Center staff.

All drugs, splints, special bandages, as well as serums, vaccines, and gamma globulin, which may be prescribed in the Health Center are dispensed at prices equal to the cost assessed the University. 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.

All students pay a Health Center fee of \$5.00 up to five semester hours and then \$1.00 for each additional hour up to a maximum of \$15.00 for each Fall and Spring semester. During the Summer Sessions, \$1.00 per semester hour is charged with a maximum of \$10.00 required for each session.

When the University is not in session, the Student Health Center is not responsible for a student's health care.

## Learning Skills Programs

The Department of Learning Skills Programs is continually seeking to develop new programs and approaches to aid students in making the most of their college experience and thus increase student retention.

Carefully selected and trained student counselors under the direct supervision of the Director of Learning Skills conduct a systematic instructional program designed to provide students with the opportunity to develop the kinds of skills necessary for satisfactory performance in college courses. This program is designed to serve all students—both the very able learners and students with potential academic problems. Any student, regardless of SAT or ACT score, high school rank, grade point average, or classification is eligible to take the course.

The office of Learning Skills Programs also assists with new student orientation and with obtaining and evaluating assessment data for appropriate programs.

Students who desire more information should contact the Director of Learning Skills, Galloway Business Building, Room 102.

## **Placement Center**

The Placement Center is a centralized operation responsible for placement activities for all colleges of the University. The Placement Center's services are available at no charge to students, faculty, staff and all 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, governmental agencies, schools and other employers.

The Center also offers student seminars pertaining to job search techniques, interviews, resume writing and job availability. The Placement Center is located in Room 102 of the Galloway Business Building.

## **Special Services Program**

The Special Services Program, under the auspices of the Vice President for Student Affairs, 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 office is to increase the retention and graduation rate of students who, by traditional academic measures, would have difficulty succeeding in college. There are also cultural and social activities and seminars included in the program to motivate, expose and help students learn to think more clearly and effectively in problem-solving situations.

The Special Services Program staff includes a career counselor to help with educational and vocational planning, a writing specialist to instruct and assist students who require supplementary help in that area, and a reading specialist to assist students who need help in reading and/or English. In addition, a student tutoring staff is available to provide individualized assistance to program participants. Any student enrolled at Lamar University who is recognized as economically disadvantaged, a veteran or physically handicapped is eligible to receive tutoring and participate in the activities of the program.

The program operates in close cooperation with the Counseling Center, the Office of Retention Services, and the Director of Learning Skills in order to deliver its services in the most efficient, effective, and pervasive manner.

The overall thrust of the program is: (1) to identify those students having academic difficulty; (2) diagnose the difficulty and; (3) and bring the total resources of the Special Services Program and the university to bear on a given student's problem.

The Special Services Program office is located on the second floor of the Education Building in Room 244, P.O. Box 10049, Lamar University, Beaumont, Texas 77710.

## **Religious Centers**

Several denominations provide a full-time ministry 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 the student in developing a meaningful context for his university years.

## **Student Development Office**

In the event of an emergency between the hours of 8:00 a.m. and 4:30 p.m., the Office of Student Development will attempt to locate a student on campus and/or to relay an emergency message to him or her.

Students may also request this office to notify faculty member(s) prior to or during an extended absence due to personal or family illness, accident, hospitalization, etc. This notification does not constitute an excused absence from class; however, it does advise the faculty member(s) as to the reason a student is absent and the expected date of his or her return.

Certain directory information on currently enrolled students is available in this office. Also students interested in leadership development programming should contact the Office of Student Development in 107 Wimberly Student Services Building.

## **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 named 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 offices are located in Room 211 of the Setzer Student Center and are staffed by three student officers and a full-time secretary.

## **Setzer Student Center**

The Richard W. Setzer Student Center provides facilities for leisure-time recreation and is the campus center for many extracurricular activities. The Center includes an information center, two games areas, TV Rooms, check cashing/ticket sales, locker rental, music listening room, snack bar, graphics operations, reservations office, video lounge, a ballroom, a reading room, various meeting rooms and lounges, and The Redbird Perch, a pizza parlor and delicatessen operation. The Center houses the offices of the Setzer Student Center Council, Student Government Association, Recreational Sports, Student Organizations, Alpha Phi Omega, Student Publications and various staff members who work with these organizations and many others. Commercial businesses housed in the Center include the Lamar University Bookstore, the Roost Ice Cream Shop and a campus hair styling shop.

## **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 Center for the majority of its functions.

The SSCC is comprised of 12 committees: concert, performing arts, forum, contemporary film, classic film, coffeehouse, recreation, social, video tape, video tape productions, travel and homecoming. Students and members of the faculty and staff are urged to seek membership on these committees.

## **Student Organizations**

More than 175 student organizations are currently active at Lamar and offer student membership opportunities in one or more of the service, professional, religious, mutual interest, honor, sorority, fraternity, spirit, sports or activity groups. Participation in student organizational activity enhances the education of students, who are strongly encouraged to affiliate with the organization(s) of their choice and participate in the programs.



## 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 inter-relationships occurring in athletic competition.

*Sports Clubs* are made up of individuals interested in a specific sport and seek competition beyond the boundaries of the University. Further information on any facet of the Recreational Sports Program may be obtained from the Recreation Sports Office, room 212 of the Setzer Student Center.

## Publications

University student publications include the *University Press*, a student newspaper published twice a week during the long terms, *The Cardinal*, a full-feature magazine published once a semester, and *Pulse*, a literary magazine of student work.

Offices for *University Press* and *The Cardinal*, both of which serve as training opportunities for students interested in journalism, are at 200 Setzer Center. *Pulse* offices are located in Room 03 of the Liberal Arts Building.

The *Student Handbook* sets forth University policies and procedures relative to student conduct, rights and responsibilities. It is available at registration and at other times in 107 Wimberly Student Services building or 212 Setzer Center. It is the responsibility of each student to obtain and read this publication. The *Student Directory* — containing a listing of the names, addresses and telephone numbers of students, faculty and administrators—is also available in the Setzer Student Center. Students should contact the Office of Admissions and Records to complete a form if they wish not to be listed in the *Student Directory*.

## 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.

## **Eligibility for Intercollegiate Athletics for Men and Women**

A high school graduate with a minimum 2.00 G.P.A. from high school, who is registered for a minimum 12 semester hours is immediately eligible for intercollegiate athletics at Lamar.

Regulations for the Southland Conference, the Southland Women's 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 designated program of studies since the beginning of the student athlete's last season of completion; or (2) satisfactory completion of degree credit which averages at least 12 semester hours during each of the previous semesters enrolled; (3) a minimum 1.6 G.P.A. must be maintained; hours earned in summer school may be utilized to satisfy requirements in sub-paragraph (1).

For additional details on eligibility for intercollegiate athletics for men and women the student should contact the Director of Athletics.

## **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, Section 4.19. 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.

## **Penalty for False Statements**

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.

## **Official 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.

## **Student Debts**

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

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

Failure to pay all University fees by the specified date will result in suspension through the 12th week in the long semester and the 4th week in the summer term. After the 12th week in the long semester and the 4th week in the 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* under "Student Conduct and University Discipline." The Dean of Students 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 Office of the Dean of Students and the action of the University Discipline Committee is subject to review by the Vice-President for Student Affairs.

## **Parking Regulations**

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

## **Student Housing**

The student housing program is designed to supplement the academic program by providing opportunities for social and intellectual development and recreation in a pleasant living environment. A variety of living styles, designed with most of the conveniences of an apartment and all the advantages of campus living, include semi-private rooms, modern furniture, carpet, central heating and air conditioning. Residence hall staff assist with programs and serve as advisors and counselors to the residents.

It is recommended that freshmen who do not live with parents or other relatives reside on the campus since the adjustment from high school 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.

Students who do not feel the residence hall program meets their personal needs may elect to find living accommodations off-campus.

## **Applications**

To apply for a room in a University residence hall, contact the Housing Office. A check or money order for \$50 must accompany the application. Contracts will be sent to applicants as rooms become available. The contract must be signed and returned with a \$150 payment to be applied to the Fall semester room rent. Failure to do so by July 15 will result in a cancellation of the room reservation by the university housing office. If the student cancels the reservation on or before July 15, the \$150 pre-payment will be refunded. No refunds will be issued on cancellations received after this date.

All unclaimed rooms will be declared vacant and the deposit forfeited at 6 p.m. on the first day of regular registration unless the student gives the Housing Office sufficient notice to hold the room for a longer period. Residents will receive deposit refunds, less any breakage or cleaning charges, at the end of a semester on proper withdrawal from the housing unit. The deposit will not be refunded if the student moves from the housing system before the end of a semester, and a penalty will be charged as stated in the housing contract.

## **Assignments**

Permanent 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 utilization 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 Halls**

Dining halls are located on Redbird Lane, in Brooks-Shivers Hall, and adjacent to Stadium Hall. Snack bars, located in the Setzer Student Center and Beeson Technical Arts 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**

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 \$1.00 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 4th week in the summer term. After the 12th week in the long semester and the 4th week in the 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, Box 10041, Beaumont, Texas 77710.

## **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 the activity 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.



## College of Arts and Sciences

Departments: Biology, Chemistry, English and Foreign Languages, Geology, Government, History, Military Science, Physics, Sociology, Social Work and Criminal Justice

John P. Idoux, Ph.D. Dean

### Degree Offerings

Bachelor of Arts with majors in the following fields:

Chemistry	Government
English	History
French	Sociology
Spanish	

Bachelor of General Studies—Liberal Arts

Bachelor of Science with majors in the following fields:

Biology	Geology
Chemistry	Government
Oceanographic Technology	Physics
Medical Technology	Environmental Science
Energy Resources Management	
Criminal Justice	Sociology

Bachelor of Social Work

Associate of Science with a major in the following field:

Law Enforcement

Information concerning graduate programs in biology, chemistry, English, government, history and public administration may be obtained in the Graduate Bulletin.

### General Statement

The Arts and Sciences student prepares for a career in business or industry, government service, teaching, research, advanced study and other professional fields.

Success in scientific pursuits requires an inquiring mind, thorough grounding in fundamental theory and manipulative skill. Success in the humanities and the social sciences requires an inquiring mind and a concern about people, society, and the relationship between the individual and society. The ultimate of success is attained when these qualities are developed against a broad background of liberal education.

### Honors Program

The Lamar University Honors Program is an enriched program offering a variety of courses designed specifically for qualified and highly motivated students. Although the program is supervised by the Colleges of Arts and Sciences, students working toward any approved major can participate. Normally, some scholarships are available to qualified students who enroll in the program.

Within the College of Arts and Sciences, the Honors Program includes special honors courses in sophomore literature Eng 2318 and Eng 2319, special honors section in sophomore government Gov 231H and Gov 232H, special honors section of American history His 231H and His 232H, special honors section of general biology Bio 141H and Bio 142H, special honors section of general chemistry Chm 141H and Chm 142H and two advanced interdisciplinary courses especially designed for the program Hon. 331 and Hon. 431.

## Honors Courses (Hon)

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

## Pre-Professional Programs

The College of Arts Sciences administers pre-professional programs for students planning careers in medicine, dentistry, law, pharmacy, physical therapy, occupational therapy, physician's assistant and veterinary medicine.

The programs in physical therapy, occupational therapy and physician's assistant are administered by the Department of Biology and the specific programs of study are listed in that department.

The pre-law programs are administered by pre-law advisors within the student's major department. Students should consult the department of their major for academic advisement.

The pre-medical, pre-dental, pre-veterinary medicine and pre-pharmacy programs are administered by the Office of the Head of the Chemistry Department and students should consult this office for academic advisement.

Students intending to pursue careers in medicine or dentistry are encouraged to major in any academic area of their choice; all fields of academic endeavor in the University are open.

The Head of the Chemistry Department is the chairman of the Pre-professional Advisory Committee for the Health Professions. Students in these areas should plan their academic and professional programs through that office.

## Recommended Program of Study— Pre-medical and Pre-dental

The first two years of study, as listed below, are designed to equip students with the minimum background in the biological and physical sciences needed for the Medical College Admissions Test (MCAT) or the Dental Admissions Test (DAT).

The third and fourth years of the pre-medical and pre-dental program are planned around the student's desired major. Additional courses in biology and chemistry are recommended in all cases. Applicants to these professional schools are generally considered more competitive by the respective admissions committees if they completed requirements for a baccalaureate degree prior to beginning the medical or dental curriculum.

First Year	Second Year
Eng Composition..... 6	Eng Literature..... 6
Bio 141, 142 General..... 8	Bio 243, 244 Microbiology..... 8
Chm 141, 142 General..... 8	341, 342 Organic..... 6
*Mth..... 6	His 231-232..... 6
Phy 141-142..... 8	Elective..... 3
PE/MLb 124**/ROTC..... 2-4	PE/MLb 124**/ROTC..... 2-4
38-40	33-35

\*Dental schools have no specific mathematics requirement. Medical schools require credit for Calculus I (Mth 236 or equivalent).

\*\*Offered Fall semester only.

## Veterinary Medicine

The following fulfills the minimum requirement for admission to study veterinary medicine in Texas.

First Year	Second Year
Eng Composition..... 6	Eng Literature..... 3
Bio 141, 142 General..... 8	Bio 347 Genetics..... 4
Chm 141, 142 General..... 8	0139 Chm 341, 342 Organic..... 8
Soph Am His..... 6	Gov 231-232..... 6
Mth 1335 Precalculus..... 3	Phy 141-142 General..... 8
Mth 236 Calculus I..... 3	
34	29

Additionally, six semester hours of Animal Science (including animal nutrition) and submission of scores on the Medical College Aptitude Test (MCAT) are required for entrance into the professional curriculum in veterinary medicine.

## Pharmacy

Professional training in pharmacy is offered at three institutions in Texas. All require a minimum of two years pre-pharmacy training followed by three years in a College of Pharmacy.

Minimum entrance requirements differ for the several institutions, and students are cautioned to work closely and carefully with the pharmacy advisor in planning their careers. Exceptions to the minimum entrance requirements are seldom granted by the respective Colleges of Pharmacy.

All Colleges of Pharmacy in Texas require submission of test scores on the Pharmacy College Admission Test (PCAT).

Pre-pharmacy training for entrance into the College of Pharmacy, University of Houston:

First Year	Second Year
Bio 141, 142 General..... 8	Bio 245 Microbiology..... 4
Chm 141, 142 General..... 8	Chm 341, 342 Organic..... 8
Eng Composition..... 6	Phy 141, 142 General..... 8
Mth 1335 Precalculus..... 3	Eco 233 Principles and Policies..... 3
PE Activity..... 2-4	Eng Literature..... 6
*Electives..... 3	*Electives..... 3
30-32	32
Summer	
His 231, 232 American..... 6	
Gov 231, 232 American..... 6	
12	

\*Chosen from Ant, Hum, Psy or Soc.

Pre-pharmacy training for entrance into the College of Pharmacy, the University of Texas:

(Students applying to the University of Texas must be prepared to accept assignment to either the Austin or San Antonio campus for their last year of professional pharmacy training.)

First Year	Second Year
Bio 141, 142 General..... 8	Bio 245 Microbiology..... 4
Chm 141, 142 General..... 8	Bio 344 Advanced Physiology..... 4
Eco 233 Principles..... 3	Chm 341, 342 Organic..... 8
Eng Composition..... 6	Phy 141, 142 General..... 8
Mth 1335 Precalculus..... 3	Spc 331 Bus and Prof..... 3
Mth 236 Calculus..... 3	**Electives..... 8
31	35



Summer

His 231, 232 American.....	6
Gov 231, 232 American.....	6
	12

*\*\*Chosen from Behavioral or Social Sciences*

Pre-pharmacy training for entrance into the College of Pharmacy, Texas Southern University, Houston:

First Year	
Bio 141, 142 General.....	8
Chm 141, 142 General.....	8
Eng Composition.....	6
Mth 1334 Algebra.....	3
Mth 1335 Precalculus.....	3
PE Activity.....	3
	31

Second Year	
Bio 245 Microbiology.....	4
Chm 341, 342 Organic.....	8
Phy 141, 142 General.....	8
Eng Literature.....	6
Eco 233 Principles.....	3
Hum Fine Arts Apprec.....	3
	32

Summer

His 231, 232 American.....	6
Gov 231, 232 American.....	6
	12

## Professional Programs

The Arts and Sciences departments offer approved programs which enable students to secure the bachelors degree in one of the Arts and Sciences and at the same time certify for a provisional certificate secondary with teaching field in that Arts and Sciences discipline.

An Army officer commission is available through the Reserve Officer 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, a Bachelor of Social Work, or an Associate of Science in Law Enforcement.

## Bachelor of General Studies—Liberal Arts

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, government, history, modern languages, philosophy, psychology, and sociology.

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

## Career Counseling—Liberal Arts

Each Liberal Arts department has two or more faculty members who specialize in counseling these majors. One counselor specializes in counseling students who will attend professional graduate schools. Other sounselors specialize in counseling for careers in business, industry and social services.

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

## Cooperative Education Program

A Cooperative (COOP) Education Program in which the student spends alternate terms at work and at study, is offered to qualified students in the College of Sciences through the Departments of Biology, Chemistry, Geology and Physics. This program is coordinated by the Director of Cooperative Education, and students may contact that office or the individual departments for further information.

## Department of English and Foreign Languages

Department Head: Annette E. Platt

4 Liberal Arts Building

Director of Freshman English: C. Timothy Summerlin

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

Professors: Barnes, Ellis, Emmons, Frissell, Georgas, Meeks, Olson, Rule, Strickland, Thomas, Urbano, Wall

Associate Professors: Francis, K. Jones, Platt, Price, Renfrow, Summerlin

Assistant Professors: Baker, De Rose\*, Gwynn, Hutchings, Pineda, Reynolds, Sheppard, Smith.

Adjunct Instructors: Atteberry, Autry, Daigrepoint, Ellery, German, Ingalls, Ingham, R. Jones, Kuhne, Loyd, Northcutt, Vaughn, Western, Yattaw

Laboratory Supervisor: Pardo

\* *On leave*

## Bachelor of Arts—English

The degree of Bachelor of Arts in English will be awarded upon the completion of the following requirements:

A. General Requirements:

Foreign Language through the 14 course numbered 232.

Freshman composition six semester hours.

Mathematics and laboratory science four courses, at least one in mathematics and one in a laboratory science. No courses less advanced than college algebra will fulfill the mathematics requirement except as indicated under Teacher Certification below.

History 131 and 132 not required for persons who earn a teacher's certificate.

Sophomore American history six semester hours.

Sophomore American government Government 231 and 232.

Physical activity courses, marching band or ROTC four courses.

B. Major:

Sophomore literature six semester hours

Advanced American literature six semester hours

Advanced British literature nine semester hours

English 430 (except as indicated under Teacher Certification below).

One may substitute nine hours of advanced writing courses (drawn from English 335, 4326, 4335, 4345, and 4355) for nine of the fifteen required advanced literature hours. Students choosing this option may substitute English 4312 for 430.

C. Minor:

An approved minor of 18 semester hours, including at least six semester hours in advanced course. Drawn either from literature or writing courses.

D. Sufficient approved electives to complete a total of 126 semester hours (except as indicated under Teacher Certification below).

## Teacher Certification—English

Students wishing to secure the Bachelor of Arts degree in English and at the same time to certify for a provisional certificate-secondary with a teaching field in English, must include in their degree program the following:

1. Six hours of mathematics and eight hours of science. The mathematics requirement must include at least college algebra or a more advanced course.
2. An approved additional teaching field in the place of the minor (consult this bulletin, College of Education).
3. English 430 or 4312.
4. English 3321.
5. Eighteen hours of education: 331, 332, 338, 438, 462.
6. Approved electives sufficient to bring the total number of hours to 132.

## Recommended Program of Study—English

First Year	Second Year
Eng Composition ..... 6	Eng Sophomore Lit ..... 6
His 131-132 World Civilization ..... 6	Sophomore Am. History ..... 6
Foreign Language 131-132 ..... 6	Gov. 231 and 232 ..... 6
Mth ..... 6	Foreign Languages 231-232 ..... 6
Electives ..... 6	Electives ..... 6
PE Activity ..... 2	PE Activity ..... 2
32	32
Third Year	Fourth Year
Eng ..... 9	Eng 430 History of the English Language ..... 3
Laboratory Science ..... 8	Eng ..... 6
Minor ..... 9	Minor ..... 9
Electives ..... 6	Electives ..... 12
32	30

## Bachelor of Arts—French or Spanish

The degree of Bachelor of Arts in French and Bachelor of Arts in Spanish will be awarded upon the completion of the following requirements:

- A. General Requirements:
  - Freshman English six semester hours
  - Literature six semester hours
  - \*Mathematics six semester hours
  - \*Laboratory Science eight semester hours
  - Sophomore American History six semester hours
  - Sophomore American Government six semester hours
  - Physical Education, Marching band or ROTC four semesters
- B. Major:
  - French
    - French 131-132 Elementary French
    - French 231-232 Reading, Composition, Conversation
    - French 330 French Conversation
    - French 337 Advanced Grammar and Composition
    - French 338 French Phonetics
    - Advanced French three semester hours
  - Spanish
    - Spanish 131-132 Elementary Spanish
    - Spanish 231-232 Reading, Composition, Conversation
    - Spanish 330 Spanish Conversation
    - Spanish 335 Advanced Composition
    - Advanced Spanish six semester hours

- C. Minor in French or Spanish:  
An approved minor of 18 semester hours, including at least six advanced semester hours
- D. Electives:  
Sufficient approved electives to complete a total of 126 semester hours.

*\*Students may follow general degree requirements in regard to science and mathematics.*

### Teacher Certification—French, Spanish

Student wishing to obtain the Bachelor of Arts degree in French or Spanish and at the same time certify for a provisional certificate-secondary with a teaching field in French or Spanish, must include in their degree program the following:

1. An approved 24 hour additional teaching field (See College of Education section of this bulletin for a list of approved teaching fields).
2. Education 331, 332, 338, 438 and 462.
3. Sufficient approved electives to complete a total of 132 semester hours.

### Recommended Program of Study—French or Spanish

First Year	Second Year
*Maj Lang 131-132 Elementary ..... 6	Maj Lang 231, 232 Intermediate..... 6
Eng Composition ..... 6	Eng Literature ..... 6
**Mth ..... 6	Sophomore American His..... 6
HPE Activity ..... 2	*Sci ..... 8
Elec ..... 12	HPE ..... 4
32	Elec ..... 2
	32
Third Year	Fourth Year
Maj. Lang: Fre 330, 337, 338..... 9	Maj Lang Adv. .... 3
or	Elec incl minor ..... 30
Maj Lang: Spa 330, 335 ..... 6	
Spa Adv. .... 3	
Elec incl minor ..... 15	
30	33

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

*\*\*Students may follow general degree requirement in regard to Science and Mathematics*

### English Courses (Eng)

- 131 Composition 3:3:0  
Intensive study and practice in 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  
Further study and practice in the forms of expository and analytical writing. Topics for composition suggested from wide reading in at least two of the three genres: prose fiction, poetry, and drama. Research paper required.  
*Prerequisite: Eng 131.*
- 134 Composition 3:3:0  
Further study and practice in the forms of expository and analytical writing. Topics for composition suggested from a wide survey of various communications media films, tapes, radio, television, periodicals, books, etc. Requires attendance at specific instructor-specified events in addition to class attendance. Research paper required.  
*Prerequisite: English 131.*
- 135 Composition 3:3:0  
Intensive study and practice in the forms of persuasive writing. Topics for composition suggested by the study of rhetoric and collateral readings. Research paper required.  
*Prerequisite: English 131.*

- 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.  
*Prerequisite: Approval of head of the English and Foreign Languages Department.*  
*Offered Fall semester and on main campus only. Must be taken the first semester the student is enrolled. Upon completion of this course with the grade of C or better, the student receives credit for both English 131 and 136. This course meets the general degree requirement for freshman English.*  
 (Note: The student can satisfy the general degree requirements for freshman English by completing successfully English 131 and any other course from English 132, 134 and 135. However, a student is not permitted to receive credit for more than one freshman English course a semester.)
- 137 **Developmental Reading and Writing** 3:3:0  
 Development of writing skills, broadening reading background and improvement of reading comprehension. Emphasis on individualized instruction in composition. This course does not satisfy general degree requirements for Freshman English.  
 (Note: Satisfactory completion of this course for those who score 35 or below on the SAT Test of Standard Written English is prerequisite to Eng 131.  
 (Note: Satisfactory completion of six hours of freshman composition is prerequisite to sophomore literature courses. Unless specified by a particular department, any combination of the six sophomore courses below will satisfy a sophomore literature requirement.)
- 2311 **Masterworks of World Literature** 3:3:0  
 Critical study of six to ten major monuments of world literature, from classical antiquity to the present century.
- 2312 **Masterworks of American Literature** 3:3:0  
 Critical study of six to ten major works of American literature, including both the nineteenth and twentieth centuries.
- 2313 **Masterworks of British Literature** 3:3:0  
 Critical study of six to ten major works of British literature, including writers from most of the important periods.
- 2315 **The Literature of Africa** 3:3:0  
 Major writers of Africa, including various genres and works translated from languages other than English.
- 2316 **Afro-American Literature** 3:3:0  
 Significant contributions to American literature from Colonial times to the present.
- 2318 **Sophomore Literature Honors Course** 3:3:0  
 Critical studies of several 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  
 Critical studies of several major works of British, American and World Literature from classical antiquity to the present century, designed especially for honors students.
- 333 **Shakespeare** 3:3:0  
 Rapid reading of the histories, comedies and tragedies. The development of Shakespeare as a dramatist; his relationship to the Elizabethan theater; his social, political and literary background in the Tudor-Stuart era.
- 335 **Creative Writing** 3:3:0  
 A workshop approach to the writing of poetry, fiction and drama.  
*Prerequisite: Recommendation by the department head.*
- 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  
 Wide reading and critical study in some particular aspect or period of the British novel. May be taken for credit more than once if the topic varies.
- 339 **American Novel** 3:3:0  
 A study of the history, growth and technique of the American novel, with emphasis on the novels of the twentieth century.
- 3316 **Poetic Analysis** 3:3:0  
 A study of the forms and techniques and the critical evaluation of poetry.
- 3321 **Methods of Teaching English** 3:3:0  
 Methods of teaching reading and composition at the secondary level, with special attention to the assigning and evaluating of written work.
- 3322 **The American Literary Renaissance: 1820-1860** 3:3:0  
 An intensive study of the major authors of the period from Poe to Melville.
- 3324 **The Development of American Realism: 1860 to 1900** 3:3:0  
 An intensive study of the major authors of the period from Whitman to Norris.

- 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 Sixteenth Century Literature** 3:3:0  
Critical studies in the poetry, prose and drama of the age. May be taken for credit more than once if the topic varies.
- 434 **Shakespeare** 3:3:0  
Intensive study of selected major plays.
- 435 **Studies in Seventeenth Century Literature** 3:3:0  
Critical studies in the poetry, prose and drama of the period 1600-1660. May be taken for credit more than once if the topic varies.
- 438 **Studies in Eighteenth Century Literature** 3:3:0  
Critical studies in the 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  
Critical studies in the 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  
Critical studies in the 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.
- 4317 **Contemporary Drama** 3:3:0  
A study of dramatic trends and representative plays from Ibsen to the present.
- 4318 **Contemporary Poetry** 3:3:0  
A study of poetry developments in England and America with emphasis on representative poets from Hardy to the present.
- 4319 **Contemporary Fiction** 3:3:0  
A study of prose fiction representative of modern ideas and trends, with emphasis on English and Continental authors.
- 4322 **Russian Literature** 3:3:0  
Selected works from nineteenth and twentieth century Russian literature in translation. Pushkin to Sholokov.
- 4326 **Expository Writing** 3:3:0  
The practical application of the techniques of mature exposition; classification, explanation, evaluation. With permission of the instructor, this course may be repeated one time for credit.
- 4327 **Bibliography and Methods of Research** 3:3:0  
An introduction to research methods and sources. Recommended for those planning or beginning graduate study.
- 4328 **Early American Literature** 3:3:0  
A survey of all significant writers from the beginning of Colonial America to 1828.
- 4329 **Modern American Literature** 3:3:0  
A critical survey of major American writers of the twentieth century.
- 4333 **Studies in a Particular Author** 3:3:0  
Intensive critical study of a 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  
Intensive critical study of a particular genre or theme in comparative literature or criticism. May be taken more than once for credit when the topic varies.
- 4335 **Technical Report Writing** 3:3:0  
Supervised preparation of technical and scientific reports according to standard usage recommended by scientific and engineering societies.  
*Prerequisite: Completion of six hours of freshman English or permission of the instructor.*
- 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 between a student and an instructor. 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 multiple times 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 4326, 4335, or 4345 (when technically oriented).*

## Philosophy Courses (Phl)

- 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.
- 332 **Ethics** 3:3:0  
A critical analysis of the concepts, methodology and theories of ethics.
- 333 **History of Philosophy I, Ancient and Medieval Philosophy** 3:3:0  
The development of Western philosophic thought from the inception in Greece to the end of the Medieval period.
- 334 **History of Philosophy II, Modern Philosophy** 3:3:0  
The development of philosophic thought from the Renaissance through the nineteenth century; emphasis upon philosophers of the seventeenth and eighteenth centuries.
- 430 **Topics in Philosophy** 3:3:0  
Selected topics in philosophy. Course may be repeated for credit when topic changes.

## English as a Second Language (ESL)

- 132 **Listening Comprehension** 3:3:0  
The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations.
- 133 **Reading and Vocabulary Development** 3:3:0  
The course emphasizes vocabulary building and increasing reading comprehension skills. Use of magazines, newspapers and other types of reading material.
- 134 **Grammar and Writing Skills** 3:3:0  
Progressive work in mastering English grammar for purposes of writing. Frequent guided and free writing exercises.  
**NOTE:** The student for whom English is a second language can satisfy the general degree requirements for freshman English by completing successfully ESL 135 and ESL 136. The courses, however, may not be taken simultaneously.
- 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  
Further study in 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.*
- 137 **Developmental Skills in ESL** 3:3:0  
Students for whom English is a second language are placed in this course when English proficiency scores fall below the prescribed level for exemption. This course does not satisfy general degree requirements for Freshman English. Grading on a Satisfactory-Unsatisfactory basis.
- 231 **Masterpieces in British and American Literature** 3:3:0  
Critical study of six to ten major works in British and American 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.
- 232 **World Masterpieces in English Translation** 3:3:0  
Critical study of 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.
- 431 **The Teaching of English as a Second Language** 3:3:0  
The course deals with techniques for teaching basic English skills and literature to non-native speakers. Socio-cultural aspects of second language learning.

- 432 **Foundations in Teaching ESL** 3:3:0  
A general methodology course that focuses on both linguistic and cultural foundations of ESL and examines trends in ESL and strategies for teaching ESL.
- 433 **Psycholinguistics** 3:3:0  
Examines the current research and theory of first and second language acquisition and development as a base for teaching English to non-native speakers.
- 434 **Introduction to Linguistics** 3:3:0  
Provides 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.

## French Courses (Fre)

- 131 **Elementary French** 3:3:0  
Pronunciation, conversation, reading, dictation, grammar. Use of tapes.
- 132 **Elementary French** 3:3:0  
Pronunciation, conversation, reading, dictation, grammar. Use of tapes.  
*Prerequisite: Fre 131 or equivalent determined by examination.*
- 231 **Reading, Composition, Conversation** 3:3:0  
*Prerequisite: Fre 132 or equivalent.*
- 232 **Reading, Composition, Conversation** 3:3:0  
*Prerequisite: Fre 231 or equivalent.*
- 330 **French Conversation** 3:3:0  
Required of majors and of students desiring teacher certification in French. (This course may not be substituted for Fre 232 to meet the language requirement for the Bachelor of Arts degree.)  
*Prerequisite: Fre 231 or equivalent.*
- 331 **Contemporary French Drama** 3:3:0  
A study of representative plays of the twentieth century with emphasis on the theater of post World War II. Dramatists studied include Giraudoux, Sartre, Camus, Ionesco, Beckett, Arrabal.  
*Prerequisite: Fre 232.*
- 332 **Contemporary French Novel** 3:3:0  
A study of representative novels of the twentieth century, including such writers as Gide, Mauriac, Sartre, Camus and the masters of the New Novel.  
*Prerequisite: Fre 232.*
- 337 **Advanced Grammar and Composition** 3:3:A  
A thorough study of French grammar with extensive written composition. Secondary stress on pronunciation.  
*Prerequisite: Fre 232.*
- 338 **French Phonetics** 3:3:A  
A study of the French sound system. Laboratory exercises to improve pronunciation.  
*Prerequisite: Fre 232.*
- 339 **French Culture and Civilization** 3:3:0  
A survey of the intellectual, philosophic, political and social development of France. Readings of significant works in these areas. Lectures, readings, oral and written reports.  
*Prerequisite: French 232 or equivalent.*
- 435 **Survey of French Literature through the 18th Century** 3:3:0  
Readings from significant works. Lectures, readings, oral and written reports.  
*Prerequisite: Six hours advanced courses in French.*
- 436 **Survey of French Literature Since the 18th Century** 3:3:0  
Readings from significant works. Lectures, readings, oral and written reports.  
*Prerequisite: Six hours advanced courses in French.*

## German Courses (Ger)

- 131 **Elementary German** 3:3:0  
Pronunciation, conversation, reading, dictation, grammar. Use of tapes.
- 132 **Elementary German** 3:3:0  
Pronunciation, conversation, reading, dictation, grammar. Use of tapes.  
*Prerequisite: Ger 131 or equivalent determined by examination.*

## Italian Courses (Ita)

- 131 **Elementary Italian** 3:3:0  
Conversation, reading, dictation, grammar. Use of tapes. Emphasis will be placed on vocabulary and pronunciation.



- 132 **Elementary Italian** 3:3:0  
 Conversation, reading, dictation, grammar. Use of tapes. Emphasis will be placed on vocabulary and pronunciation.  
*Prerequisite: Italian 131.*

## Spanish Courses (Spa)

- 131 **Elementary Spanish** 3:3:0  
 Pronunciation, conversation, reading, dictation, grammar. Use of tapes.
- 132 **Elementary Spanish** 3:3:0  
 Pronunciation, conversation, reading, dictation, grammar. Use of tapes.  
*Prerequisite: Spa 131 or equivalent determined by examination.*
- 231 **Reading, Composition, Conversation** 3:3:0  
*Prerequisite: Spa 132 or equivalent.*
- 232 **Reading, Composition, Conversation** 3:3:0  
*Prerequisite: Spa 231 or equivalent.*
- 330 **Spanish Conversation** 3:3:0  
 Required of majors and of students desiring teacher certification in Spanish.  
*Prerequisite: Spa 231 or equivalent.*  
 (Note: This course may not be substituted for Spa 232 to meet the language requirement for the Bachelor of Arts degree.)
- 331 **Culture and Civilization of Spain and Spanish America** 3:3:0  
 A study of the geography, history, government, art, economic resources and psychology of Spain, Cuba, Santo Domingo, Mexico and Central America. Lectures, readings, oral and written reports.  
*Prerequisite: Spa 232.*
- 333 **Survey of Spanish-American Literature** 3:3:0  
 A study of outstanding writers and their works up to the nineteenth century modernista movement. Lectures, readings, oral and written reports.  
*Prerequisite: Spa 232.*
- 335 **Advanced 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.*
- 337 **Contemporary Spanish-American Short Story** 3:3:0  
 The authors chosen are among the best interpreters of the spiritual and intellectual climate of Spanish America. Lectures, readings, oral and written reports.  
*Prerequisite: Spa 232.*
- 338 **Contemporary Theater of Spain** 3:3:0  
 Emphasis will be given to the theater of Lorca, Casona, Buero Vallejo, Calvo Sotelo, Alfonso Sastre and other major authors of today.  
*Prerequisite: Spa 232.*
- 431 **Contemporary Spanish Literature** 3:3:0  
*Prerequisite: 6 hours of advanced Spanish.*
- 432 **Development of Spanish Novel** 3:3:0  
*Prerequisite: 6 hours of advanced Spanish.*
- 433 **Survey of Spanish Literature Through the 17th Century** 3:3:0  
 A study of the most significant works of Spanish literature through the seventeenth century. Readings from El Cid, El Conde Lucanor, La Celestina, poetry of the Renaissance, Cervantes' prose and the Golden Age drama. Lectures, readings, oral and written reports.  
*Prerequisite: 6 hours of advanced Spanish.*
- 434 **Survey of Spanish Literature Since the 17th Century** 3:3:0  
 A study of the most significant works of Spanish literature from the eighteenth century through the twentieth century. Readings with emphasis on the drama and the novel. Lectures, readings, oral and written reports.  
*Prerequisite: 6 hours of advanced Spanish.*
- 436 **Spanish American Novel** 3:3:0  
*Prerequisite: 6 hours of advanced Spanish.*

## Lamar Overseas Study Program

Each summer the English and Foreign Languages Department participates in the summer overseas program offered by the University. English courses are offered in London and in Rome and a senior member of the English faculty participates 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.

A six weeks program at the University of Strasbourg, France, under the direction of experienced senior foreign language faculty is offered by the department every other year, that is, 1983, 1985, etc., for as long as there is interest in it. Participants study French language and literature on all levels. College students as well as high school students who receive their high school diplomas before the beginning of the program may obtain details from the office of the Department of English and Foreign Languages. The group is limited to 15 students.

Courses listed below may be taken by students who have finished elementary and intermediate language courses through language 232. The French courses listed are accepted toward a major or teaching field in French but may not be substituted for a required advanced course.

- 4371 **French Studies Abroad** 3:3:A  
A study of the French language, literature and culture on a campus abroad. Students will be placed in language groups according to their proficiency in the language. Cultural activities will include visits to famous museums, historic sites and churches and cathedrals. Credit for this course may be applied toward a major in French.
- 4372 **French Studies Abroad** 3:3:A  
Students may register for this course concurrently with French 4371. A study of the French language, literature and culture on a campus abroad. Students will be placed in language groups according to their proficiency in the language. Cultural activities will include visits to famous museums, historic sites and churches and cathedrals. Credit for this course may be applied toward a major in French.
- 4373 **French Studies Abroad** 3:3:A  
This course is designed for students who have completed French 4371 or 4372. It consists of a more advanced study of French language, literature and culture on a campus abroad. Students will be placed in language groups according to their proficiency in the language. An in-depth study will be made by the student of one facet of the foreign culture. Credit for this course may be applied toward a major in French.  
*Prerequisite: French 4371 or 4372.*
- 4374 **French Studies Abroad** 3:3:A  
Students may register for this course concurrently with French 4373. The course is designed for students who have completed French 4371 or 4372. It consists of a more advanced study of French language, literature and culture on a campus abroad. Students will be placed in language groups according to their proficiency in the language. An in-depth study will be made by the student of one facet of the foreign culture. Credit for this course may be applied toward a major in French.  
*Prerequisite: French 4371 or 4372.*

## Department of Government

Department Head: Manfred Stevens

56 Liberal Arts Building

Professors: Stevens, Drury, Pearson

Associate Professors: Lanier, Stidham, Utter

Assistant Professors: Dubose, Loewenstein, Sanders

### Bachelor of Arts—Government Major

- A. General Requirements:  
Freshman English—six semester hours  
Literature—six semester hours  
\*Mathematics 1334 and three additional hours  
\*Science—laboratory—eight semester hours  
Completion of the 232 course in a foreign language  
Sophomore American History—six semester hours  
Physical activity courses, Band or ROTC—four semesters
- B. Major:  
Government 231-232—American Government  
Government 131—Introduction to Political Science  
Government 3319—Statistics for Social Scientists  
Advanced Government (at least one course from each of five fields)—15 semester

hours. The fields are American government (Gov 334, 335, 339, 437, 3301, 3312, 3313, 3315); political philosophy (Gov 433); international relations (Gov 332,337, 435); comparative government (Gov 331, 3317, 4381,4383); public administration (Gov 3316, 430, 434, 439).

C. Minor:

An approved minor of 18 semester hours, including at least six advanced hours. (Freshman English composition courses may not be counted toward a minor in English)

D. Electives:

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

### Bachelor of Arts—Teacher Certification—Government

Students wishing to secure the Bachelor of Arts degree in Government and at the same time certify for a provisional certificate secondary with a teaching field in Government, must include in their degree program the following:

1. Six hours of mathematics and eight hours of science.
2. An approved 24 hour additional teaching field in place of the minor, consult this bulletin, College of Education.
3. Education 331, 332, 338, 438 and 462.
4. Sufficient electives to complete a total of 132 semester hours.

\*For science and mathematics the general degree requirements may be followed.

### Recommended Program of Study

First Year	Second Year
Gov 131 ..... 3	Eng—Literature ..... 6
Eng—Composition ..... 6	Foreign Language ..... 6
Foreign Language ..... 6	PE Activity ..... 4
Mth (incl 1334) ..... 6	AM His ..... 6
PE Activity ..... 2	Gov 231-232 ..... 6
Electives* ..... 6	Gov 3319 ..... 3
29	31
Third Year	Fourth Year
Gov (Adv) ..... 9	Gov (Adv) ..... 6
Electives or Edu 331, 332, 338 ..... 9	Electives or Edu 438 and 462 ..... 9
Laboratory Science ..... 8	Minor (or other teaching field) and Electives ..... 15-18
Minor (or other teaching field) and Electives ..... 5-8	
31-34	30-33

\*His 131-132 are recommended.

### Bachelor of Science—Government Major

The Bachelor of Science degree in government emphasizes career education. It will be awarded upon completion of the requirements for the Bachelor of Arts degree in government with the following substitution for the foreign language requirement: Computer Science 131; Gov 4319 and nine additional hours to be selected from two of the following areas: Accounting 231-232; Computer Science—Adv; Economics 131-133 or Adv; Mathematics—Adv; Psychology—Adv.

### Recommended Program of Study

First Year	Second Year
Gov 131 ..... 3	Eng—Literature ..... 6
Eng—Composition ..... 6	Am History ..... 6
Math (incl 1334) ..... 6	Gov 231-232 ..... 6
PE ..... 2	Gov 3319 ..... 3
Computer Science ..... 3	PE Activity ..... 4
Electives* ..... 12	Approved Electives ..... 6
32	31

Third Year	Fourth Year
Gov (Adv) .....	Gov (Adv) .....
Laboratory Science .....	Minor and Electives .....
Gov 4319 .....	
Minor and Electives .....	
30-34	27-30

\*His 131-132 are recommended.

## Government—Pre-law

Students may pursue either the Bachelor of Arts degree or the Bachelor of Science degree as candidates for admission to a school of law. The degree requirements are the same as those specified above. Guidance and counseling for the needs of the pre-law student are available.

## Career Development Program (Pre-Law)

Exceptional students may qualify for a cooperative education program presently available in the legal profession. Students earn up to 12 semester hours of elective 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 practical skills useful to the potential lawyer. Admission to the program is by permission of the head of the Department of Government.

## Government Courses (Gov)

231	Introduction to American Government I A study of the national and Texas constitutions; federalism; political socialization and participation; public opinion and interest groups; parties, voting and elections. <i>Prerequisite: Sophomore standing.</i>	3:3:0
231H	Introduction to American Government I Honors A study of 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>	3:3:0
232	Introduction to American Government II A study of 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: Government 231.</i>	3:3:0
232H	Introduction to American Government II Honors A study of 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: Sophomore standing and departmental approval.</i> Note: Gov. 231-232 will, starting with the Fall semester 1979, fulfill the six hour requirement in American Government. Students who completed one of the following courses Gov. 2322, 2323, Gov. 2324, Gov. 2325 must enroll in Gov. 231 to complete the six hour requirement in American Government.	3:3:0
131	Introduction to Political Science An introductory survey of political ideas and institutions and a review of the methods for analyzing the political behavior of individuals, groups and nations.	3:3:0
321	Legal Internship I Practical experience in law office procedure and operation with career related assignments and projects under the guidance of a faculty member. <i>Prerequisite: Approval of department head.</i>	2:2:0
322	Legal Internship II Practical experience in law office procedure and operation with career related assignments and projects under the guidance of a faculty member. <i>Prerequisite: Approval of department head, Gov 321.</i>	2:2:0
323	Legal Internship III Practical experience in law office procedures and operation with career related assignments and projects under the guidance of a faculty member. <i>Prerequisite: Approval of department head, Gov 322.</i>	2:2:0
331	The Politics of Developed Nations An analysis of the political culture, political structure and decision-making process of developed nation-states with major emphasis on Western European systems.	3:3:0
332	Studies in International Politics A study of the concepts underlying the Western State system; nationalism and imperialism; the techniques and instruments of power politics and the foreign policies of selected states.	3:3:0

- 334 **American Political Parties and Pressure Groups** 3:3:0  
A study of 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  
An analytical and historical view of 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  
Analysis of the 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.
- 3315 **Conflict Management in American Politics** 3:3:0  
An examination of various approaches political, social, psychological, philosophical and legal to the study of conflict, and its management and resolution; specific cases of conflict to be studied will be drawn from American politics.
- 3316 **Introduction to Public Administration** 3:3:0  
A survey of American public administration, with emphasis upon modern problems and trends.
- 3317 **Politics of Developing Nations** 3:3:0  
An analysis of the political systems of Latin America, Africa, the Middle East and Asia, focusing on ideologies, interest groups, political parties, elites and problems in political development.
- 3319 **Statistics for Social Scientists** 3:3:0  
Basic concepts and techniques of statistics employed in social science research including descriptive statistics; measures of central tendency and dispersion; correlation and regression analysis; inductive statistics; fundamentals of probability and tests of significance.
- 421 **Legal Internship IV** 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 head, Gov 323.*
- 422 **Legal Internship V** 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 head, Gov 421.*
- 423 **Legal Internship VI** 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 head, Gov 422.*
- 430 **Organization Theory and Behavior** 3:3:0  
A study of the structural and management aspects of public administration, theory and practice; policy formation processes and techniques.
- 432 **Political Thought I** 3:3:0  
Topics in western political thought from the Greeks to the Nineteenth Century.
- 433 **Political Thought II** 3:3:0  
Topics in 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 from semester to semester.
- 435 **International Law and Institutions** 3:3:0  
An analysis of the 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  
This course is designed to cover 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 head of Department of Government.*
- 4312 **American State Government** 3:3:0  
A survey of American state political systems from a comparative basis with emphasis on Texas
- 4319 **Advanced Research Methods** 3:3:0  
Analysis or study of special problems, topics, cases, models and theories in political science research.
- 4381 **The Politics and Government of the Communist Nations** 3:3:0  
A study of the origin, development, structures, functions and behavior of the Communist political system with emphasis on the Soviet Union and China.
- 4383 **Government and Politics of Latin America** 3:3:0  
An intensive comparative analysis of the 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 History

Department Head: Adrian N. Anderson

57 Liberal Arts Building

Professors: Anderson, Gwin, Isaac, Mackey, Norton, Satterfield, Storey, Sutton, Wooster

Associate Professors: Carroll, Holt, Lambert, Woodland

Assistant Professor: Stiles

## 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: Freshman English—six semester hours  
Literature—six semester hours including English 2311  
Mathematics and laboratory science—four semester courses, at least one in mathematics and one in laboratory science. Mathematics and science courses must be selected from a list of approved courses, and must include at least one course in mathematics at or above the level of Math 1334.  
Completion of the 232 course in a foreign language  
Sophomore government—six semester hours  
Physical Education or Band—four semesters
- B. Major: History 131-132—World History  
Sophomore American History—six semester hours  
History 339—Historical Research  
Advanced United States History—six semester hours  
Advanced World (Non-United States) History—six semester hours
- 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 126 semester hours.

## Teacher Certification—History

Students wishing to secure the Bachelor of Arts degree in history and at the same time certify for a provisional certificate—secondary with a teaching field in history, must include in their degree program the following:

1. Six hours of mathematics and eight hours of science. Must be selected from list of approved courses.
2. An approved 24 hour additional teaching field (See College of Education section of this bulletin for a list of approved teaching fields).
3. Education 331, 332, 338, 438 and 462.
4. Sufficient approved electives to complete a total of 132 semester hours.

## Recommended Program of Study

First Year	Second Year
His 131-132—World History ..... 6	Sophomore American History ..... 6
Freshman English ..... 6	Literature (including Eng 2311) ..... 6
Foreign Language ..... 6	Foreign Language ..... 6
Mth ..... 6	Science ..... 8
Electives ..... 6	Sophomore Government ..... 6
PE—Activity ..... 2	PE—Activity ..... 4
32	36
Third Year	Fourth Year
His 339 ..... 3	His (Adv) ..... 6
His (Adv) ..... 6	Edu 438 and 462 or Minor (or other
Electives ..... 9	Teaching Field) and Electives ..... 15-17
Minor (or other Teaching Field) and Electives ..... 12-14	
30-32	30-32

## History Courses (His)

131	History of World Civilization Survey of world history to 1660.	3:3:0
132	History of World Civilization Survey of world history from 1660 to 1965.	3:3:0
134	History of Texas Survey of Texas history from the beginning to the present time.	3:3:0
231	American History: History of the United States, 1763 to 1877 Survey of United States history from the revolutionary period through reconstruction.	3:3:0
231H	American History: History of the United States, 1763 to 1877 Survey of United States from the revolutionary period through reconstruction, designed especially for honors students. <i>Prerequisite: departmental approval.</i>	3:3:0
232	American History: History of the United States, 1877 to the Present Survey of United States history from the post-reconstruction period to the present.	3:3:0
232H	American History: History of the United States, 1877 to the Present Survey of United States history from the post-reconstruction period to the present, designed especially for honors students. <i>Prerequisite: departmental approval.</i>	3:3:0
233	American History: The Development of Society in America A historical survey of social change in the United States.	3:3:0
234	American History: The Arts in America A historical survey of cultural life in the United States.	3:3:0
235	American History: The Americas to 1810 The United States and the Western Hemisphere from the beginning to 1810.	3:3:0
236	American History: The Americas since 1810 The United States and the Western Hemisphere since 1810. NOTE: Various colleges and departments may counsel their majors into certain of the American history courses listed above; otherwise the student may satisfy his/her American history requirement by taking any two courses selected from History 231, 232, 233, 234, 235 or 236.	3:3:0
330	History of Ideas The Judeo-Christian and Greco-Roman elements in the Western intellectual tradition.	3:3:0
331	Social and Intellectual History of the United States to 1865 Life and thought in the United States prior to 1865.	3:3:0
332	American Thought Since Darwin Life and thought in the United States since 1865.	3:3:0
333	History of American Economic Life A study of economic change in the context of institutional development in the United States.	3:3:0
334	Military History of the United States History of American warfare and the development of American military institutions and practices.	3:3:0
337	Diplomatic History of the United States Historical development of American diplomacy.	3:3:0
338	Urban History of the United States The origin and development of cities in the United States.	3:3:0

339	<b>Historical Research</b>	3:3:0
	Principles and methods of historical research.	
430	<b>Era of the Renaissance and Reformation</b>	3:3:0
	Western Europe from 1453 to 1610.	
431	<b>The Old Regime</b>	3:3:0
	Western Europe from 1610 to 1783.	
432	<b>The French Revolution and Napoleon</b>	3:3:0
	Western Europe from 1783 to 1815.	
433	<b>Russia and Eastern Europe to 1860</b>	3:3:0
	Russia, Poland, and the Balkans from the period of the Byzantine Empire to 1860.	
434	<b>Nineteenth Century Europe</b>	3:3:0
	Europe from 1815 to 1914.	
435	<b>Twentieth Century Europe</b>	3:3:0
	Europe since 1914.	
436	<b>The American West</b>	3:3:0
	The American West from colonial times to the present.	
437	<b>The Old South</b>	3:3:0
	The American South from colonial times to the Civil War.	
438	<b>The New South</b>	3:3:0
	The American South from the Civil War to the present.	
439	<b>Honors Program</b>	3:A:0
	A tutorial program for honors seniors. Admission by invitation only.	
4311	<b>Colonial America</b>	3:3:0
4312	<b>The American Revolution</b>	3:3:0
4313	<b>The Age of Jackson</b>	3:3:0
4314	<b>The American Civil War</b>	3:3:0
4315	<b>Reconstruction and Industrialization: The United States from 1865 to 1898</b>	3:3:0
4316	<b>World Power and Reform: The United States from 1898 to 1920</b>	3:3:0
4317	<b>New Deal and World Leadership: The United States from 1920 to 1940</b>	3:3:0
4318	<b>Classical Civilization</b>	3:3:0
	Greece and Rome from earliest times to the fall of the Roman Empire in the West.	
4319	<b>Medieval Civilization</b>	3:3:0
	Western Europe and the Mediterranean area from the late Roman period to 1453.	
4321	<b>The Far East to 1800</b>	3:3:0
	Japan, China, Indo-China and India to 1800.	
4322	<b>The Far East since 1800</b>	3:3:0
	Japan, China, Indo-China and India since 1800.	
4323	<b>Latin America to 1810</b>	3:3:0
4324	<b>Latin America Since 1810</b>	3:3:0
4325	<b>Tudor and Stuart England</b>	3:3:0
	England from 1485 to 1688.	
4326	<b>Eighteenth Century England</b>	3:3:0
	England Great Britain from 1688 to 1815.	
4327	<b>Victorian England</b>	3:3:0
	Great Britain from 1815 to 1914.	
4328	<b>Contemporary America: The United States Since 1940</b>	3:3:0
4329	<b>Modern European Intellectual History</b>	3:3:0
	An examination of the major European intellectual movements and thinkers from the Renaissance to the present.	
4331	<b>Russia Since 1860</b>	3:3:0
	The development of modern Russia, from 1860 to the present.	
4332	<b>Afro-American History to 1865</b>	3:3:0
	The black experience in Africa and in the Western Hemisphere prior to emancipation.	
4333	<b>Afro-American History since 1865</b>	3:3:0
	The black experience toward achieving freedom in the United States.	
4334	<b>Early National Period</b>	3:3:0
	The United States from 1789 to 1820.	
4335	<b>Topics in History</b>	3:3:0
	Selected special topics in major areas of history. Course may be repeated for a maximum of six semester hours credit when the topic varies.	
4336	<b>Ancient Near East</b>	3:3:0
	The civilizations of the Near East from the earliest times to the pre-classical period.	



4337	Directed Studies in European History Individual study with an instructor in an area of mutual interest. May be repeated for a maximum of six semester hours credit when topic varies. <i>Prerequisite: Departmental permission.</i>	3:A:0
4338	Directed Studies in American History Individual study with an instructor in an area of mutual interest. May be repeated for a maximum of six semester hours credit when topic varies. <i>Prerequisite: Departmental permission.</i>	3:A:0
4339	Directed Studies in Historical Research Individual study with an instructor on historiography and historical research methods. <i>Prerequisite: Departmental permission.</i>	3:A:0
4341	World War II A military, political and social history of World War II.	3:3:0
4342	Nazi Germany A military, political, and social history of Nazi Germany.	3:3:0

## Department of Sociology, Social Work and Criminal Justice

Department Head: Wayne C. Seelbach

55 Liberal Arts Building

Professor: Altomose

Associate Professors: Drenan, Frazier, Ma, Monroe, Seelbach

Assistant Professors: Fatino, Love, Sims, Smith

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 its majors and encourages career oriented education.

The degrees offered by this department are: Bachelor of Science in Sociology, Bachelor of Arts in Sociology, Bachelor of Social Work, Bachelor of Science in Criminal Justice, and Associate of Science in Law Enforcement. Each bachelor's degree offered by this department requires 120 semester hours excluding 4 semesters of required physical activity and/or marching band and/or ROTC. Students exempted from the physical education requirement must submit elective hours approved by the major department in lieu of this requirement. Thus, the minimal total for a degree is 124 semester hours. The Associate of Science in Law Enforcement degree requires 60 semester hours excluding 2 required physical activity courses for a minimal total of 62 semester hours.

### Sociology

Program Director: Wayne C. Seelbach

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, architecture, politics, public administration, and even medicine.

### 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 general requirements for a bachelor's degree which are described earlier in this bulletin under degree requirements.
- B. Major—minimum of 30 semester hours to include:  
Sociology 131—Introduction to Sociology  
Sociology 438—Research Methods  
Sociology 439—Social Theory

- C. Professional Core—9 semester hours
  - Social Work 231—Survey of the Social Welfare Institution
  - Criminal Justice—Crime and Criminals
  - Psychology 131—Introduction to Psychology
- D. Minor—an approved minor of 18 semester hours, 6 of which must be advanced.
- E. Electives:
  - Sufficient approved electives to complete a total of 124 semester hours.

### Recommended Program of Study

First Year	Second Year
Soc ..... 6	Soc ..... 6
Psy 131 ..... 3	CJ 1301 ..... 3
Swk 231 ..... 3	Eng Literature ..... 3
Eng Composition ..... 6	Eng 4335, Spch, Lit, or Lang ..... 3
Math ..... 6	His Sophomore American ..... 6
Science ..... 8	Minor/electives American ..... 9
PE Activity ..... 2	PE activity ..... 2-4
34	32-34
Third Year	Fourth Year
Soc ..... 12	Soc 438, 439 ..... 6
Minor/Electives ..... 18	Gov 231, 232 ..... 6
30	Minor/Electives ..... 16
	28

### 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 general requirements for a bachelor's degree which are described earlier in this bulletin under "Degree Requirements."
  - Completion of the 232 course in a foreign language.
  - Literature—6 semester hours
- B. Departmental requirements:
  - The requirements concerning major, professional core, minor, and electives are the same as for the Bachelor of Science degree listed above.

### Recommended Program of Study

First Year	Second Year
Soc ..... 6	Soc ..... 3
Eng Composition ..... 6	Swk 231 ..... 3
Math ..... 6	CJ 1301 ..... 3
Science ..... 8	Psy 131 ..... 3
Language ..... 6	Eng Literature ..... 6
PE Activity ..... 2	Language ..... 6
34	His Soph American ..... 6
	PE Activity ..... 2-4
	32-34
Third Year	Fourth Year
Soc ..... 15	Soc 438, 439 ..... 6
Gov 231, 232 ..... 6	Minor/Electives ..... 22
30	28

### Teacher Certification—Sociology

Students wishing to secure the Bachelor of Arts or Bachelor of Science degree in sociology and at the same time to certify for a provisional certificate—secondary, with a teaching field in sociology must include in their degree program the following:

1. Six hours in mathematics and eight hours in the same laboratory science.
2. An approved 24 hour additional teaching field. (See list of approved teaching fields in the College of Education section of this bulletin.)
3. Curriculum and Instruction: 331, 332, 338, 438, and 462.
4. Sufficient approved electives to complete a total of 124 semester hours.

### **Cooperative Education (Coop) Program**

A cooperative Education Program, in which the student spends alternate semesters at study and at work is available to qualified students in the Department of Sociology, Social Work, and Criminal Justice. This program is coordinated by the Director of Cooperative Education. Details may be obtained from that office or from the department head.

### **Pre-Law**

Students may pursue either the Bachelor of Arts or the Bachelor of Science in sociology as prospective candidates for admission to a school of law. The degree requirements are the same as those specified above but should include the following courses as electives or a minor:

- Criminal Justice 1303—Criminal Law
- Criminal Justice 234—Law of Crimes
- Criminal Justice 331—Procedural Law
- Criminal Justice 4314—Legal Research and Advocacy
- Government 436—American Constitutional Law and Development
- Government 437—American Constitutional Law and Development
- Business Law 331—Business Law
- Business Law 3311—Labor Law
- Business Law 434—Advanced Legal Principles

### **Social Work**

Program Director: Vernice M. Monroe

Social Work is a profession that 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, groups and communities face difficulties and find solutions to problems. Social work practice involves more than a desire to "do good"; it involves the synthesis of knowing, doing, feeling and understanding.

The Social Work Program is accredited by the Council on Social Work Education.

### **Bachelor of Social Work**

The Bachelor of Social Work will be awarded upon completion of the following requirements:

- A. General Requirements:  
Meet the university's general requirements for a bachelor's degree which are described earlier in this bulletin under "Degree Requirements."  
The lab science course must be biology.
- B. Major—33 semester hours  
Social Work 131, 231, 331, 332, 333, 334, 335, 432, 4321, 4324, plus 3 hours of electives in Social Work.
- C. Professional Core—21 hours  
Sociology 131, 132, 336, 438  
Psychology 131, and 234 or 235  
Criminal Justice 1301

- D. Minor: An approved minor of 18 semester hours, 6 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 probation and parole departments, prisons, and jails. For this concentration, the following courses are required: Criminal Justice 1301, 1302, 1303, 1304, 436, and 437.
  - 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 complete a total of 124 semester hours.

### Recommended Program of Study

First Year	Second Year
Eng Composition ..... 6	Eng Literature ..... 3
Math ..... 6	His Sophomore American ..... 6
Swk 131, 231 ..... 6	CJ 1301 ..... 3
Soc 131, 132 ..... 6	Swk 331 ..... 3
Psy 131 ..... 6	Science (Bio) ..... 8
PE Activity ..... 2	Psy 234 or 235 ..... 3
32	Electives ..... 3
	PE activity ..... 2-4
	31-33
Third Year	Fourth Year
Eng 4335, Spch. Lit, or Lang ..... 3	Swk 334, 432, elective ..... 9
Gov 231, 232 ..... 6	Swk 4321, 4324 (Field Placement) ..... 6
Soc 336, 438 ..... 6	Minor/Electives ..... 16
Swk 332, 333, 335 ..... 9	
Minor/Electives ..... 6	
30	31

### Criminal Justice

Program Director: James J. Love

### Bachelor of Science—Criminal Justice Major

The Bachelor of Science in Criminal Justice offers preparation for professional careers in law enforcement and corrections. It also provides a background for students interested in graduate education in criminal justice or in law school. The degree will be awarded upon the completion of the following requirements:

- A. General Requirements:  
Meet the university's general requirements for a bachelor's degree which are described earlier in this bulletin under "Degree Requirements."
- B. Major—30 semester hours
  - CJ 1301—Crime and Criminals
  - CJ 1302—Control of Crime
  - CJ 1303—Criminal Law
  - CJ 1304—Juvenile Justice
  - CJ 232—Investigation
  - CJ 332—Counseling
  - CJ 4312—Contemporary Issues
  - CJ 434\*—Applications
  - CJ 434\*—Applications
  - CJ 435—Management and Organization

\*With the permission of the Department Head, students with professional experience in the criminal justice system may substitute six semester hours of electives for the required six semester hours of CJ 434—Applications.

- C. Professional Core:  
 9 semester hours from any one of the areas indicated below and 3 semester hours from each of the three areas not chosen (total 18 semester hours).
- Corrections
    - CJ 333—Correctional Counseling
    - CJ 436—Probation and Parole
    - CJ 437—Penology
  - Law and Courts
    - CJ 234—Law of Crimes
    - CJ 331—Procedural Law
    - CJ 4314—Legal Research and Advocacy
  - Law Enforcement
    - CJ 231—Police Work
    - CJ 433—Police Problems
    - CJ 4310—Ethical Issues in Criminal Justice
  - Nature of Crime
    - CJ 336—Narcotics and Vice
    - CJ 337—Organized Crime
    - CJ 4313—Community Crime Prevention
- D. Foundation Electives:
- Sociology 131
  - Sociology 438
  - Social Work 231
  - Psychology 131
- E. Electives—sufficient approved electives to complete a total of 124 semester hours. (Students wishing to meet requirements for Basic Certification from T.C.L.E.O.S.E. should include CJ 231, CJ 234, and CJ 331 as electives.)

**Recommended Program of Study**

First Year	Second Year
Eng Composition ..... 6	Eng Literature ..... 3
Math ..... 6	Eng 4335, Spch, Lit, or Lang ..... 3
Science ..... 8	Psy 131 ..... 3
Criminal Justice ..... 6	Swk 231 ..... 3
Soc 131 ..... 3	Criminal Justice ..... 15
PE Activity ..... 2	PE activity ..... 2-4
<u>31</u>	<u>29-31</u>
Third Year	Fourth Year
Gov 231, 232 ..... 6	Soc 438 ..... 3
His Sophomore American ..... 6	Criminal Justice ..... 18
Criminal Justice ..... 9	Electives ..... 10
Electives ..... 12	
<u>33</u>	<u>31</u>

**Associate of Science—Law Enforcement Major**

The Associate of Science in Law Enforcement will be awarded upon the completion of the following requirements:

- A. General Requirements:  
 Meet the univeristy's general requirements for the associate of science degree which are described earlier in this bulletin under "Degree Requirements."
- B. Criminal Justice Core:
  - CJ 1301—Crime and Criminals
  - CJ 1302—Control of Crime
  - CJ 1303—Criminal Law
  - CJ 1304—Juvenile Justice
  - CJ 231—Police Work
  - CJ 232—Investigation
  - CJ 234—Law of Crimes

## C. Electives:

Sufficient approved electives to complete a total of 62 semester hours. (Students wishing to meet requirement for Basic Certification from T.C.L.E.O.S.E. should include CJ 331 and CJ 435 as electives).

## Recommended Program of Study

First Year	Second Year
Soc 131 ..... 3	Gov 231, 232 ..... 6
Eng Composition ..... 6	Eng Literature ..... 3
Math and/or Lab Sci ..... 6-8	Criminal Justice ..... 12
His Sophomore American ..... 6	Electives ..... 9
PE Activity ..... 2	
Criminal Justice ..... 9	
32-34	30

## Sociology Courses (Soc)

131	<b>Introduction to Sociology</b>	3:3:0
	Sociology as a field of knowledge. Basic terms, concepts, theories of sociology applied to an explanation of human behavior, personality, groups and society.	
132	<b>Social Problems</b>	3:3:0
	Attributes of society and of persons which are subject to disapproval; the causes, extent and consequences of problems; programs and prospects of their resolution.	
230	<b>Urban Problems</b>	3:3:0
	The study of contemporary urban problems in America. Attention is given to problems of poverty, transportation, disorganization and city planning and reconstruction.	
231	<b>Deviant Behavior</b>	3:3:0
	The study of the major areas of social maladjustment from the standpoint of the processes underlying social and individual disorganizations, such as alcoholism, illegitimacy, suicide, drug addiction and other personal deviations.	
233	<b>Marriage and the Family</b>	3:3:0
	Characteristics of and problems within courtship, marriage and family in American society.	
234	<b>Social Gerontology</b>	3:3:0
	A general survey of the social phenomenon of aging in American society, attention given to the interrelationship among biological, individual, group and social variables.	
235	<b>Career Development I</b>	3:A:0
	Special assignments related to work-experience in cooperation with employer under faculty supervision.	
236	<b>Career Development II</b>	3:A:0
	Special assignments related to work-experience in cooperation with employer under faculty supervision.	
237	<b>Social Problems of the Aged</b>	3:3:0
	An in-depth examination of the nature, causes and consequences of the major social problems experienced by older Americans.	
330	<b>American Society</b>	3:3:0
	Description and analysis of structural and functional characteristics of American society and culture.	
331	<b>Sexual Interaction</b>	3:3:0
	An overview of current scientific knowledge concerning human sexuality as a form of interaction between the sexes in the cultural milieu.	
3313	<b>Career Development III</b>	3:A:0
	Special assignments related to work-experience in cooperation with employer under faculty supervision.	
3314	<b>Career Development IV</b>	3:A:0
	Special assignments related to work-experience in cooperation with employer under faculty supervision.	
332	<b>Social Psychology</b>	3:3:0
	Social and cultural influences upon individual behavior and personality; interpersonal and intergroup relations and collective behavior.	
333	<b>Urban Sociology</b>	3:3:0
	Social and ecological processes in the urbanization movement; characteristics of urban society and culture.	
334	<b>Industrial Sociology</b>	3:3:0
	The social structure of industry and of the trade union interrelationships of industry, union and society; personal, social and cultural factors in industrial organization and operation.	
335	<b>The Family</b>	3:3:0
	Structural and functional characteristics of the family as a basic institution.	

336	<b>Race and Ethnic Relations</b>	3:3:0
	Racial and ethnic minority groups within the society; causes, distinctions and changes in the relationship between minority and dominant groups.	
338	<b>Criminology</b>	3:3:0
	Extent of and explanation for crime in American society; agencies dealing with crime and criminal; programs for control and prevention of crime and delinquency.	
339	<b>Juvenile Delinquency</b>	3:3:0
	The nature, incidence and explanations for juvenile delinquency in American society; agencies and programs for prevention and control of juvenile delinquency.	
430	<b>Seminar in Sociology</b>	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	<b>Directed Studies in Sociology</b>	3:A:0
	Individual study with an instructor in an area of mutual interest. May be repeated for credit when topic varies.	
431	<b>Population Problems</b>	3:3:0
	The growth and composition of population with emphasis on social, economic and political problems.	
4311	<b>Medical Sociology</b>	3:3:0
	A study of social organization in the medical field with emphasis on the social interaction between persons involved.	
4312	<b>Advanced Deviant Behavior</b>	3:3:0
	In-depth study of behavior classified as deviation from the social norms.	
432	<b>Sociology of Education</b>	3:3:0
	A study of the multicultural influences on the school system and the democratic society. Included will be an analysis of educational problems in the multicultural society of Texas.	
433	<b>Adult Development and Aging</b>	3:3:0
	An in-depth analysis of the social and psychological processes associated with the passage of individuals through the age structure of American society.	
4331	<b>Seminar in Gerontology</b>	3:3:0
	Pre-professional seminar examining current theories, research, issues and career opportunities in the field of aging.	
434	<b>Social Change and Futurology</b>	3:3:0
	Analysis of the nature, sources, and effects of contemporary social changes with emphasis given to future types of social organization and functioning. Science and technology as stimulators of change.	
435	<b>Sociology of Religion</b>	3:3:0
	Religion as a social institution in contemporary America; development of religious systems; cultural, social and individual function of religion.	
436	<b>Social Movements</b>	3:3:0
	Historical, structural and tactical consideration in the development of major systems of belief and practice within society; political movements in American society.	
437	<b>Public Opinion</b>	3:3:0
	Factors and processes in formation and change of public opinion, influence of the mass media on communication; analysis and evaluation of propaganda.	
438	<b>Research Methods</b>	3:3:0
	Study of the logic, design, techniques and problems involved in social scientific research.	
439	<b>Social Theory</b>	3:3:0
	A survey of major sociological theorists and theories.	

## Social Work Courses (Swk)

131	<b>Introduction to Social Work</b>	3:3:0
	An overview of the history, philosophy, field of practice and services of the social work profession. A field experience to introduce students to the social work profession is required.	
231	<b>Survey of the Social Welfare Institution</b>	3:3:0
	Study of the growth and development of the social welfare institution; with emphasis on selected pieces of social welfare legislation and the effect on social welfare services.	
331	<b>Social Work Practice I</b>	3:3:0
	Course designed to help students acquire basic skills for social work practice: basic helping skills; engagement skills; observation skills; and communication skills.	
332	<b>Human Behavior in the Social Environment</b>	3:3:0
	Life cycle approach to the study of growth and development as impacted upon by the social environment.	
333	<b>Social Work Practice II</b>	3:3:0
	Theories, concepts, principles and modalities generic to social work practice. Emphasis on the use of interventive skills with client systems.	

- 334 **Social Policy and Administration** 3:3:0  
Analysis of social policies as related to selected social problems at all governmental levels. Emphasis placed on integrating policy into the administering of human service programs.
- 335 **Social Work Practice With Target Groups** 3:3:0  
Acquisition of knowledge, skills and techniques for practice with multiproblem families, low income families, racial or ethnic minorities, and other client groups using a crisis intervention model.  
*Prerequisite: Swk 331 and 333.*
- 410, 420, 430 **Special Topics in Social Work** 1-3:A:0  
Topics in various areas in social services. Includes field and/or library work and conferences with a staff member. A student may repeat the course for credit when the area of study is different.  
*Prerequisite: Consent of the instructor.*
- 432 **Seminar** 3:3:0  
Current topics in social work. May be repeated for credit when the topic is varied.
- 4321 **Field Experience I** 3:A:0  
Integration of theory into practice through placement in community social service agencies. Course includes a weekly 4-hour seminar. Placement to be arranged.  
*Prerequisite: Consent of field placement coordinator, Swk 333, 335, plus three additional hours in Swk.*
- 4324 **Field Experience II** 3:A:0  
Continuation of Swk 4321. Placement to be arranged.  
*Prerequisite: Consent of the instructor.*

## Criminal Justice Courses (CJ)

- 1301 **Crime and Criminals** 3:3:0  
Introduction to the nature of crime and criminals. Violent crime, property crime, white collar crime, organized crime, narcotics and vice.
- 1302 **Control of Crime** 3:3:0  
Introduction to contemporary crime control efforts. Police, courts, corrections, special programs. Survey of crime control efforts of selected foreign nations.
- 1303 **Criminal Law** 3:3:0  
Introduction to the criminal law and its impact on the individual citizen. Emphasis upon application of legal principles to commonly encountered situations.
- 1304 **Juvenile Justice** 3:3:0  
Introduction to juvenile crime. A survey of youthful involvement in the juvenile justice system, as both offender and victim. Role of police in preventing and controlling juvenile offenses. Basic provisions of the Texas Family Code.
- 1311 **Introduction to Law Enforcement (Academy)** 3:3:0  
A study of history and philosophy of law enforcement: structure of government; criminal justice system; Texas Penal Code of Criminal Procedure; search and seizure; civil procedures and laws of arrest.  
*Prerequisite: Admission to Police Academy and consent of instructor.*
- 1312 **Law Enforcement Related Fields (Academy)** 3:3:0  
A study of juvenile procedures: written and oral reports; interviews and interrogations; practical problems; first aid; courtroom demeanor and testimony; Texas liquor laws; speech; defensive tactics and firearms training.  
*Prerequisite: Admission to Police Academy and consent of instructor.*
- 231 **Police Work** 3:3:0  
Study of law enforcement as an occupation. Role of the police; relationship between the police and the community; effect of police work on the individual officer.
- 232 **Investigation** 3:3:0  
Basic investigation procedures and techniques. Evidence; witnesses; informants; information sources. Current, popular and famous cases will be used as source material.
- 234 **Law of Crimes** 3:3:0  
Basic principles of substantive law. Elements of common law crimes: examination of modern criminal laws with emphasis on practical applications of Texas criminal statutes and cases.  
*Prerequisite: CJ 1303.*
- 331 **Procedural Law** 3:3:0  
Texas Code of Criminal Procedure and case law governing investigative procedures, arrests, search and seizure. Legal trial rights; rules of evidence.  
*Prerequisite: CJ 1303.*
- 332 **Counseling** 3:3:0  
Basic counseling techniques for dealing with troubled individuals. Communication skills; crisis intervention.
- 333 **Correctional counseling** 3:3:0  
Specialized counseling techniques for working with offenders. Criminal behavior patterns; constructive use of authority; preparation of presentence reports.  
*Prerequisite: CJ 332.*



- 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 1995 controlling these offenses; methods of diversion.
- 337 **Organized Crime** 3:3:0  
Survey of organized crime in America, past and present; areas and extent of influence; agencies and groups involved in prevention and control.
- 433 **Seminar in Police Problems** 3:3:0  
Advanced treatment of the major contemporary police problems from the viewpoint of both the administrative and line operations officer; integration of established scientific knowledge with practical police experience.  
*Prerequisite: 18 hours of Criminal Justice courses.*
- 434 **Applications** 3:A:0  
Application of principles learned in the classroom to a non-classroom setting. Requirements for this course may be satisfied through a special project, internship, or other work experience. May be repeated for credit.  
*Prerequisite: Consent of the instructor.*
- 435 **Management and Organization in Criminal Justice** 3:3:0  
Principles of organizational behavior and management as applied to criminal justice organizations. Survey of managerial techniques.
- 436 **Probation and Parole** 3:3:0  
Survey of probation, parole, and other community-based programs used in supervision of offenders. Sentencing; methods of selection and prediction.
- 437 **Penology** 3:3:0  
survey of the structure and functions of correctional institutions. Emphasis on both jail and prison programs and problems. History of punishment and theories of corrections.
- 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.
- 4313 **Community Crime Prevention** 3:3:0  
An in-depth study of alternative forms of crime control that employ community action as their primary process, and an analysis of current programs.
- 4314 **Legal Research and Advocacy** 3:3:0  
Introduction to basic principles of legal research and brief writing. Use of a law library; introduction to oral advocacy; legal logic.

## Anthropology Courses (Ant)

- 231 **Introduction to Anthropology** 3:3:0  
A general introduction to the major subdisciplines of anthropology and their basic concepts. Throughout the course the evolutionary perspective on man is applied. Coverage is given to the physical and cultural evolution of man as well as to the ecological adaptations of contemporary small-scale or so-called "primitive" societies.
- 232 **Culture Areas** 3:3:0  
North American Indians/Central and South American Indians/Asia/Oceania a series of area survey courses designed to introduce the student to the cultural diversity present in each area. Attention is given to cultural origins and pre-contact civilizations as well as to the impact of Western technology and colonization. The course may be repeated for credit when the designated topics are varied.
- 234 **Primitive Religion** 3:3:0  
The comparative study of myths and belief systems of preliterate societies. Special attention will be given to the function of the myth in culture and society. The world views of the North and South American Indian and of the small scale societies of Africa, Asia and Oceania will receive most coverage in the course. Shamanism will also be discussed.
- 235 **Introduction to Archaeology** 3:3:0  
An introduction to the method, theory and major prehistoric sequences of the old and New World.
- 331 **Culture and Personality** 3:3:0  
Anthropological contributions to understanding the role of culture in personality development. Coverage is given to child rearing, language acquisition and normative approaches to culturally distinct personality.
- 332 **Ecological Anthropology** 3:3:0  
Treatment of the problems of cultural adaptations of human societies to their environments. Attention is given the systemic relationship of environments, technology, economic exchange and authority in non-industrial societies.
- 431 **Topics in Anthropology** 3:3:0  
Topics will be selected on basis of need and interest. Course may be repeated for credit, when the designated topics are varied.

## Department of Military Science

Department Head: Major Wayne S. Smith

ROTC Building

Assistant Professor: Captain Ingalls, Captain McGuffin

Instructor: Sergeant Major Smith

### ROTC Program

The Department of the Army has established a four-year Reserve Officers' Training Corps program at Lamar University. The ROTC program has as its primary objective the production 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.

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, 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.

**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 for 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 can not 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 five and one-half week Leadership Seminar course, conducted each summer at Fort Knox, Kentucky. Academic credit and pay are granted to students attending the course. Applications should be submitted to the Department of Military Science by May 1.

**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.

**Veterans:** Students who have prior military service are 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.

**Junior ROTC:** Students who have had at least three years of junior ROTC may qualify for advanced placement. An interview with the Professor of Military Science is required.

**ROTC Scholarships:** Competitive 3, 2, and 1-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 & 100.00 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.

Students desiring additional information concerning the Army ROTC program should write to: Professor of Military Science, USA Third ROTC Region, SR Program, Lamar University Station, Box 10060, Beaumont, TX, 77710. Phone calls may be made collect to: (409) 838-8560, 8569.

## Military Science Courses (MS)

- 121 Learn What It Takes to Lead**  
An introduction course designed to emphasize confidence building activities such as mountaineering, rifle marksmanship, and orienteering- all of which are inherent in learning what it takes to lead.
- 122 Woodland Skills/Survival**  
Instruction includes basic survival skills required to survive in the wilderness. Survival techniques will include shelter construction, food preparation, first aid, water procurement, and directional finding techniques.
- 221 Small Unit Operations**  
Course consists of basic skills necessary for a small unit to perform in a military environment. Skills covered in the course include: Weapons, communications, tactics and the enemy threat. Students plan and participate in a small unit operation in a field training exercise during the semester.
- 222 Military Management**  
The functions of management, planning, organizing, directing, staffing, and controlling are introduced. Human behavior is examined and leadership is studied as it relates to accomplishment of objectives. Famous military leaders, to include Pershing, Patton, and Bradley, and their leadership techniques are also covered.
- 223 Advanced Leadership**  
In depth instruction on a wide range of leadership skills to include advanced mountaineering techniques, physical fitness, exercise leadership, orienteering skills and first aid (CPR). Students will participate in at least one orienteering meet and one overnight field training exercise.  
*Prerequisite: MS 121, 221, or permission of PMS.*
- 234 Military History**  
This course consists of the theory of war, and a survey of major battles and wars in history. The Punic Wars, American Civil War, World War II, Vietnam, and the present day threat to central Europe are included. Distinguished commanders and their personalities will also be studied to reflect their impact on the principles of war and the conduct of battles.

## Advanced Course

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

- 331 Military Roles** 3:3:1  
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 garrison. Introduction to the employment of the infantry platoon through map and practical exercises.
- 332 Tactical Concepts** 3:3:1  
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 advance 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** 3:3:1  
Methods of organization, administrative management, and personnel management are examined through conferences and practical exercises. A block of instruction emphasizes the military law system. Staff operation of the cadet corps and practical exercises in leadership are conducted during leadership laboratory.
- 432 Military Ethics** 3:3:1  
The organization, capabilities, and mission of military units are examined through lectures and conferences. 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 leadership laboratory.

## Special Courses

### U.S. Army ROTC Basic Camp

(Maximum of 8 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 prior to becoming academic juniors. In addition to free room, board, and transportation, students are paid approximately \$500.00. 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 will be required to participate in one two-day training exercise during the semester. Open to all interested and qualified students.

### Competition Rifle Team

In depth analysis of all facets of competitive firing with small bore rifle to include safety, equipment care, aiming, breath and trigger control, positions, and participation in ten competitive matches a year.

### Orienteering Team

In depth analysis of the sport of orienteering. Involvement in environmental awareness, physical fitness, map reading skills, compass proficiency, mental acuity, and competition with others will be emphasized. Students will be required to participate in one orienteering meet during the semester.

Open to all interested students.

## Courses in Bible and Religious Education

Instructors: Bash, Chatham, Eckstein, Maness

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	<b>Survey of the Old Testament</b>	3:3:0
	A critical study of the Old Testament and its relevance to Western culture.	
132	<b>Survey of the New Testament</b>	3:3:0
	A critical study of the New Testament, its historical context and the beginnings of the Christian Church.	
133	<b>New Testament: Gospels</b>	3:3:0
	A critical study of the Gospels, the person and work of Jesus of Nazareth.	
134	<b>New Testament: Paul</b>	3:3:0
	A study of the life and ministry of St. Paul and the major portion of the Pauline letters.	
135	<b>Introduction to Christian Thought</b>	3:3:0
	A course designed to acquaint the student with the major concepts of the Christian faith: to explore their Biblical basis and their relevance for the present day.	
212	<b>Current Issues in Religion</b>	1:1:0
	An interpretation of religious events through the reading of current religious and secular periodicals.	
231	<b>Church History</b>	3:3:0
	The history of the Christian Church, including the General Councils, the missionary movements, the Reformation and the transition to the modern scene.	
232	<b>Christian Ethics</b>	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	<b>Old Testament: Prophets</b>	3:3:0
	A study of the major and minor prophets and the role they played in the development of the religion of Israel.	
314	<b>Thematic Approach to Religion</b>	1:1:0
	A critical study of significant ideas or writings in religion.	
324	<b>Thematic Approach to Religion</b>	2:2:0
	A critical study of significant ideas or writings in religion.	
331	<b>Philosophy of Religion</b>	3:3:0
	Planned to describe the points of view in religious philosophy which are of vigorous contemporary influence and to analyze the basic issues between them, including a study of religion as such, its historical development and some emphasis on major contemporary religions.	
332	<b>Major Themes of the Bible</b>	3:3:0
	Planned to present Biblical concepts of God, man, history, covenant, prophecy, vocation and related ideas.	
333	<b>Comparative Religion</b>	3:3:0
	A comparative study of the world's major religions, e.g. Judaism, Christianity, Islam, Hinduism, Buddhism.	

334 Thematic Approach to Religion

3:3:0

A critical study of significant ideas or writings in religion.

## Department of Biology

Department Head: Michael E. Warren

101 Hayes Building

Professors: Harrel, McGraw, Ramsey, Turco, Warren

Associate Professors: Fitzgerald, Malnassy, Runnels

Assistant Professors: Bechler, Bryan, Carley, Haidok, Hunt

Adjunct Professor: Johnson

### Recommended Program of Study

#### Bachelor of Science—Biology Major

First Year	Second Year
Eng 131 ..... 3	Eng Literature ..... 6
Eng Composition ..... 3	Chm 341, 342 Organic ..... 8
Bio 141, 142 General ..... 8	Phy 141, 142 General ..... 8
Chm 141, 142 General ..... 8	**Bio selected from core ..... 12
Mth 1335 Precalculus or 236 ..... 3	PE/MLb 124*** / ROTC 2 sem ..... 2 or 4
Mth 236 Calculus or 237 ..... 3	
Electives ..... 4	
PE/MLb 124*** / ROTC 2 sem ..... 2 or 4	
<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 34-36	<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 34-36
Third Year	Fourth Year
Gov 231-232 ..... 6	Bio 416, 417 Bio Lit ..... 2
Electives ..... 8	Bio Electives ..... 8
Mth 234 Statistics ..... 3	Electives ..... 18
**Bio selected from core ..... 8	Soph Am His ..... 6
Bio Elective ..... 8	
Chem 441 or Bio 4302 ..... 3 or 4	
<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 36-37	<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 34

*\*\*The following courses must be included in the Biology Core: Bio 243 or 245, Microbiology; Bio 346, Invertebrate Zoology; Bio 345, Botany; Bio 240 or 444, Comparative Anatomy or Vertebrate Natural History; Bio 347, Genetics.*

*\*\*\*Offered Fall Semester only. If MLb 124 option is desired it should be added to third and fourth year as four semesters are required.*

#### \*Bachelor of Science in Psychology

#### \*Bachelor of Science in Biology

First Year	Second Year
Bio 141, 142 General ..... 8	Chm 341, 342 Organic ..... 8
Chm 141, 142 General ..... 8	Bio 240 Comparative Anatomy ..... 4
Eng Composition ..... 6	Bio 342 Embryology ..... 4
Mth 1355 Precalculus ..... 3	Psy 242 Methods ..... 4
Psy 131 Intro to Psy ..... 3	Eng Soph Literature ..... 6
Psy 241 Intro to Stat Meth ..... 4	Mth 236 Calculus I ..... 3
PE Activity ..... 2-4	Mth 237 Calculus II ..... 3
<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 34-36	Psy Electives ..... 3
	<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 35
Summer	Third Year
Soph Am Gov ..... 6	Soph Am His ..... 6
PE Activity ..... 2-4	Phy 141, 142 General ..... 8
Electives ..... 6	Bio 347 Genetics ..... 4
	Psy 344 Adv Physiology ..... 4
<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 14-16	Psy 343 Experimental Psy ..... 4
	Psy Electives Adv 6 hrs ..... 9
	<hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 35

**Fourth Year**

Bio 444 Vert Natural History .....	4
Bio 416 Bio Literature .....	1
Bio 446 Ecology .....	4
Bio 447 Cellular .....	4
Bio Electives .....	8
Psy Elective Adv .....	3
Electives .....	13
	37

*\*Both degrees must be awarded simultaneously.*

**†Bachelor of Science in Biology**

**†Bachelor of Science in Chemistry**

**First Year**

Bio 141-142 General .....	8
Chm 141-142 General .....	8
Eng Composition .....	6
Mth 1335 Precalculus .....	3
Mth 236 Calculus .....	3
PE/MLb 124**/ROTC .....	2-4
Electives .....	6
	36-38

**Summer**

Phy 335 Modern .....	3
Bio 243 Microbiology .....	4
Bio Elective .....	4
Electives .....	3
	14

**Third Year**

Bio selected from core*** .....	16
Soph Am His .....	4
Chem 413,414 Physical Lab .....	2
Chm 333 Inorganic .....	3
Chm 431,432 Physical .....	6
Electives .....	3
	36

**Second Year**

Chm 341-342 Organic .....	8
Mth 237 Calculus .....	3
Eng Literature .....	6
Phy 141-142 General .....	8
Chm 241 Quantitative .....	4
Gov 231-232 .....	6
PE/MLb 124**/ROTC .....	2-4
	37-39

**Fourth Year**

Bio 416 or 417 Bio Lit .....	1
Bio Electives .....	8
Chm 441 Biochem .....	4
Chm Electives* min .....	8
Electives .....	11
	32

*†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.*

*\*\*Offered Fall Semester only. If MLb 124 option is desired it should be added to third and fourth year as four semesters are required.*

*\*\*\*The following courses must be included in the Biology Core: Bio 245 or 243, 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**

**First Year**

Eng 131 .....	3
Eng Composition .....	3
Bio 141, 142 General .....	8
Chm 141, 142 General .....	8
Mth 1334 Algebra .....	3
Mth 1335 Precalculus .....	3
Electives .....	4
PE/MLb 124***/ROTC 2 sem .....	2 or 4
	34-36

**Second Year**

Eng Literature .....	6
Bio 243-244 Microbiology .....	8
Chm 341-342 Organic .....	8
Phy 141-142 General .....	8
PE/MLb 124*/ROTC .....	2 or 4
	32-34

**Third Year**

Bio 344 Adv Physiology.....	4
Bio 340 Diagnostic Microbiology.....	4
Chm 241 Quantitative.....	4
Soph Am His.....	6
Bio 441 Parasitology.....	4
** Electives.....	8
Gov 231-232.....	6

36

\*Offered Fall Semester only. If MLb 124 option is desired it should be added to third and fourth year as four semesters are required.

\*\*Suggested Electives: Statistics, Genetics, Psychology, Epidemiology, Computer Science, in order of preference.

**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 approved for teaching by the Council on Medical Education and Hospitals of the AMA. After satisfactorily completing this training, the student is awarded the degree of Bachelor of Science Medical Technology.

The Program shown will fulfill Registry requirements.

**Physical Therapy****First Year**

Eng 131.....	3
Eng Composition.....	3
Bio 141-142 General.....	8
Chm 141-142 General.....	8
Mth 1335 Precalc(or Mth 1312-Trig).....	3
Psy 131 Introduction.....	3
Electives*.....	6

34

**Second Year**

Physics 141-142.....	8
Sociology 131.....	3
Speech.....	3
Bio 344 Adv Physiology.....	4
Psy 241 Statistics.....	4
His 231-232.....	6
Gov 231-232.....	6

34

**Third Year**

Bio 240 Comparative.....	4
Eng Literature.....	3
Psy 234 Child.....	3
Psy 337 Adjustment.....	3
Psy 432 Abnormal.....	3
Electives minimum*.....	10

26

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

The first two years of the program above will satisfy the minimum requirements for the University of Texas Medical Branch at Galveston. Their program calls for an additional two years of clinical work for the BS degree. The three years of preparatory work will meet the requirement of the University of Texas Health Science Center at Dallas. Their program requires one year of clinical work for the BS degree. PE, etc., does not count toward the semester hour requirement. Acceptance to the clinical program is on a competitive basis.

**Occupational Therapy****First Year**

Eng 131.....	3
Eng Composition.....	3
Bio 141-142 General.....	8
Chm 141 General.....	4
Psy 131.....	3
Mth or psychology statistics.....	3
Psychology.....	3
Electives.....	4

31

**Second Year**

Eng Lit.....	3
Speech.....	3
His 231-232 United States.....	6
Gov 231-232.....	6
Soc.....	3
Electives.....	6
Bio 143 Anatomy & Physiology.....	4

31

Plus two years clinical affiliation

\*Social Psychology recommended.

## Physician's Assistant

First year same as first year Physical Therapy.

Second year same as second year Occupational Therapy.

Plus two years clinical affiliation

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

### 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 Composition.....	6
PE Activity.....	2-4
	30-32

Third Year	
Bio 349 General Ocean.....	4
Bio 346 Invert Zool.....	4
Bio 444 Vert Nat His.....	4
Bio 445 Marine Bio.....	4
Bio 243 Microbiology.....	4
Chm 341-342 Organic.....	8
His Soph Am His.....	3
Elective.....	3
	34

Third or Fourth Summer	
Bio 361 Field Course.....	6
Minimum Total 137	

Second Year	
Geo 141-142 Phys. His.....	8
Phy 141-142 General.....	8
Mth 237 Calc II.....	3
His Soph Am His.....	3
Statistics.....	3
Eng Literature.....	6
PE 227-228 Swim, Life.....	4
	35

Fourth Year	
Geo 4370 Meteorology.....	3
Bio 418 Ocean Seminar.....	1
Geo 430 Phys Ocean.....	3
Bio 417 Bio Lit.....	1
Bio 446 Ecology.....	4
Bio 443 Limnology.....	4
Gov 231.....	3
Gov 232.....	3
Approved Electives.....	3-4
Free Elective.....	6
	32

## 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 Composition.....	6
PE Activity.....	2-4
	30-32

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.....	3
or	
Geo 346 Sed Stat.....	4
2671 Bio 443 Limnology.....	4
	35-36

Second Year	
Geo 241-242 Min, Opt Min.....	8
Bio 141-142 General.....	8
Mth 237 Calculus II.....	3
Egr 1121 Computation.....	1
Egr 1221 Computation.....	2
Egr 114 Graphics.....	1
Eng Literature.....	6
PE 227-228 Swim, Life.....	4
	33

Fourth Year	
Geo 430 Phys Ocean.....	3
Geo 433 Geophysics.....	3
Geo elective-Senior level.....	3
Bio 418 Ocean Seminar.....	1
Bio 445 Marine Bio.....	4
Gov 231.....	3
Gov 232.....	3
His Soph Am His.....	6
Approved elective.....	3-4
Free Electives.....	6
	32



**Third or Fourth Summer**

Bio 361 Field Course .....	6
<b>Minimum Total 139</b>	

\*Selected from the sequence Geo 431 thru Geo 438.

## Bachelor of Science—Oceanographic Technology

### Ocean Engineering Option

First Year	
Geo 220 .....	2
Chm 141-142 General .....	8
Mth 148-149 Anal I & II .....	8
CE 211 Measurement .....	2
Eng Composition .....	6
Egr 114 Graphics .....	2
PE Activity .....	2-4
Elective .....	3
	31-33

Third Year	
CE 331 Environ Sci .....	3
CE 339 Soils Sci .....	3
IE 333 Egr Economics .....	3
Bio 349 General Ocean .....	4
CE 232 Mech of Solids .....	3
Egr 233 Circuits & Flds .....	3
Egr 234 Thermodynamics .....	3
EE 333 .....	3
EE 3305 .....	3
His Soph Am His .....	6
	34

Third or Fourth Summer	
Bio 361 Field Course .....	6
<b>Minimum Total 138</b>	

Second Year	
Phy 140,222,241 .....	10
Mth 241 Analysis III .....	4
Egr 1121 Computation .....	1
Egr 1221 Computation .....	2
Egr 230 Statics .....	3
CE 212 Rt Surveying .....	1
ME 231 Dynamics .....	3
Eng Literature .....	6
PE 227-228 Swim, Life .....	4
	34

Fourth Year	
Geo 4370 Meterology .....	3
Bio 418 Ocean Seminar .....	1
Geo 430 Physical Ocean .....	3
Geo 433 Geophysics .....	3
EE 438 Instrumentation .....	3
CE 413 Photogrammetry .....	1
CE 213 Exp Stress Anal .....	1
ChE 3311 Momentum Trans .....	3
CS 439 Comp Appl .....	3
Gov 231 .....	3
Gov 232 .....	3
Elective .....	6
	33

## Biology Courses (Bio)

1400	<b>Introductory Biology</b>	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	<b>Introductory Biology</b>	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, medicine, as well as their aesthetic value.	
141	<b>General Biology</b>	4:3:2
	A survey of organisms, molecules, cells, tissues, photosynthesis, genetics and evolution.	
142	<b>General Biology</b>	4:3:2
	Structure and function, development, reproduction and ecology.	
143	<b>Human Anatomy and Physiology</b>	4:3:2
	Structure and function of cells, tissues, muscle, skeletal and nervous system.	
144	<b>Human Anatomy and Physiology</b>	4:3:2
	Structure and function of the circulatory, digestive, excretory and reproductive systems. <i>Prerequisite: Bio 143.</i>	
240	<b>Comparative Anatomy of the Vertebrates</b>	4:3:4
	Comparative anatomy presented from systemic viewpoint. Two 2-hour labs per week. <i>Prerequisite: Bio 141-142.</i>	
243	<b>Microbiology</b>	4:3:3
	Classification, morphology, reproduction and physiology of microorganisms. <i>Prerequisite: Bio 141-142.</i>	

244	<b>Disease and Immunity</b>	4:3:3
	Antigen-antibody responses and life cycles of disease-causing microorganisms. <i>Prerequisite: Bio 243.</i>	
245	<b>Introductory Microbiology</b>	4:3:2
	Micro-organisms with emphasis on those of medical significance and problems of personal and community health.	
330	<b>Applied Anatomy and Kinesiology</b>	3:3:0
	Organization and mechanics of the human body and analysis of human motion, skeletal system, attachments and actions of muscles. Does not count toward biology major. <i>Prerequisite: Bio 141-142.</i>	
332	<b>Anatomy and Physiology of Speech and Hearing</b>	3:3:0
	Human structure, function, respiration and hearing, for majors in speech and hearing pathology. Does not count toward biology major. <i>Prerequisite: Bio 141-142.</i>	
339	<b>Biology and Psychology of Sexuality</b>	3:3:0
	Understanding of human sexuality through the progressive study of conception and birth, through the development of sex roles, to the acquisition of sexual maturity and functioning in society. Credit may not be received for both Bio 339 and Psy 339.	
340	<b>Diagnostic Microbiology</b>	4:2:6
	Public health diagnostic procedures, epidemiology, control and treatment of human bacterial diseases. <i>Prerequisite: Bio 243-244; Chm 342 or concurrent enrollment.</i>	
341	<b>Histology</b>	4:3:3
	Study of normal tissues of vertebrates including human tissue. <i>Prerequisite: Bio 141-142 and 240 or 243-244.</i>	
342	<b>Embryology</b>	4:3:3
	Comparative study of meiosis, fertilization, cleavage and early embryology as it relates to human development of vertebrates. <i>Prerequisite: Bio 141-142, 240.</i>	
343	<b>Introduction to Medical Technology</b>	4:3:3
	Procedures used in clinical laboratories; practice in hematology, serology and urinalysis. <i>Prerequisite: Bio 141-142, 243-244.</i>	
344	<b>Advanced Physiology</b>	4:3:3
	General physiology, muscle-nerve relations, digestive, circulatory, respiratory, excretory, nervous and endocrine systems. <i>Prerequisite: Bio 141-142. Recommended: Chm 341-342.</i>	
345	<b>General Botany</b>	4:3:3
	Introduction to plant structure and function with emphasis on the seed plants. <i>Prerequisite: Bio 141-142.</i>	
346	<b>Invertebrate Zoology</b>	4:3:3
	Classification, natural history, phylogenetic relationships and economic importance of the invertebrate phyla. <i>Prerequisite: Bio 2825 141-142.</i>	
347	<b>Genetics</b>	4:3:3
	General principles of heredity, including human inheritance. <i>Prerequisite: Bio 141-142.</i>	
348	<b>Epidemiology</b>	4:3:3
	A study of the distribution and determinants of diseases and injuries in human populations. Laboratory utilizes a case history approach. <i>Prerequisite: Microbiology, statistics recommended.</i>	
349	<b>General Oceanography</b>	3:3:3
	Principles of oceanography. Geological, chemical, physical and biological environments of the ocean. <i>Prerequisite: Geo 141, Chm 141.</i>	
361	<b>Field Course in Estuarine and Coastal Oceanography</b>	6:5:40
	Near shore processes. The application of sampling devices. Laboratory analysis of samples. Small boat handling. Duration: six weeks. <i>Prerequisite: Bio 349, PE 228.</i>	
4101,4201,4301, 4401	<b>Special Topics in Biology</b>	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	<b>Classical Biological Literature</b>	1:1:0
	A survey of major written works in biology. <i>Prerequisite: Senior standing in biology.</i>	

- 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 problem in biology. Formal report of research to be approved by two faculty members.  
*Prerequisite: Permission of instructor.*
- 4302 **Cellular Physiology** 3:3:0  
Basic processes in physiology, metabolism, transport, energetics, molecular and cellular mechanisms.  
*Prerequisite: Junior standing, credit for organic chemistry.*
- 4303 **Principles of Electron Microscopy** 3:3:0  
Principles of operation, adjustment and elementary maintenance of the electron microscope. Preparation of specimens, sectioning and grids
- 4304 **Electron Microscope Techniques** 3:1:6  
Practical experience in application of electron microscopy procedures from living tissue to finished photographic plate.  
*Prerequisite: Bio 4303 and consent of instructor.*  
*Supplementary lab fee.*
- 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.
- 441 **Parasitology** 4:3:3  
A study of the morphology, life history and host-parasite relationships of parasites of man and other vertebrates.  
*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.  
*Prerequisite: Bio 141-142.*
- 444 **Vertebrate Natural History** 4:3:3  
Collection, identification and natural history of area fish, amphibians, reptiles, birds and mammals.  
*Prerequisite: Bio 141-142.*
- 445 **Marine Biology** 4:3:3  
Habitats and community relationships of marine plants and animals.  
*Prerequisite: Bio 141-142.*
- 446 **Ecology** 4:3:3  
Quantitative approach to both field and experimental studies. Interrelationships of organisms and their environment.  
*Prerequisite: Bio 141-142.*
- 447 **Cellular Biology** 4:3:3  
Structure and function of the cell and its organelles.  
*Prerequisite: Bio 141-142.*
- 448 **Cytological-Histological Technique** 4:1:6  
Principles and techniques of fixation, dehydration embedment, sectioning and the use of selective stains on various plant and animal tissues for observation and study with the light microscope.
- 449 **Protistology** 4:3:3  
Morphology, taxonomy and ecology of protozoa, algae and fungi.  
*Prerequisite: Bio 141-142.*
- 460 **Field Biology** 6:A:0  
Environmental relationships and natural history of plants, invertebrates and vertebrates. Extensive field trips for study and collection of organisms in their natural habitat.  
*Prerequisite: Bio 345, 20 hours credit in biology and consent of instructor.*  
*Summers only.*

# Department of Chemistry

Department Head: Keith C. Hansen

217 Chemistry Building

Director of Environmental Science: Ewin A. Eads

Professors: Baker, Cameron, Eads, Hansen, Ortego, Yerick, Whittle

Associate Professors: Akers, Dorris, Harmon, Mejia

Laboratory Manager: Grayson

The Department of Chemistry has been approved by the Committee on Professional Training of the American Chemical Society to offer ACS approved degrees.

## Recommended Programs of Study

### Bachelor of Science—Chemistry Major\*

First Year	
Chm 141, 142 General	8
Bio/Geo 141, 142 General	8
Mth 148, 149 Calc An Geo I, II	8
Eng Composition	6
HPE/MLb**/ROTC	2-4

32-34

Third Year	
Chm 341, 342 Organic	8
Chm 431, 432 Physical	6
Chm 413, 414 Physical Lab	2
Phy 222 Vibr, Sound, Light	2
Phy 212 Lab, Vibr and Waves	1
CS 131, 132 Intro	6
His 231, 232 Amer. His	6

31

Minimum 126 semester hours + HPE/MLb/ROTC

Second Year	
Chm 241 Quantitative	4
Chm 333 Inorganic	3
Phy 140 Mechanics	4
Phy 241 Heat, Elec, Mag	4
Eng Literature****	6
Electives	6
Mth 241 Calc An Geo III	4
HPE/MLb**/ROTC	2-4

33-35

Fourth Year	
Chm 444 Organic Qual	4
Chm 446 Instrumental	4
Chm 411 Chemical Lit	1
Chm 412 Senior Seminar	1
Chm 436 Inorganic	3
Chm Electives***	6
CS 439 Problem Solving	3
Gov 231, 232 Amer Gov	6
Electives (outside of major)	6

34

\*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)

\*\*Offered Fall Semester only. If MLb 124 option is desired it should be added to third and fourth years, as four semesters are required.

\*\*\*To be selected from Chm 430, 433, 435, 437, 438, 441, 442.

\*\*\*\*Eng 4335, Report Writing may be substituted for 3 hours literature.

### Bachelor of Science—Chemistry (Biochemistry Option)\*

First Year	
Chm 141, 142 General	8
Bio 141, 142 General	8
Mth 236, 237 Calculus I, II	6
Eng Composition	6
HPE/MLb**/ROTC	2-4

30-32

Second Year	
Chm 241 Quantitative	4
Chm 333 Inorganic	3
Bio 243, 244 Microbio	8
Gov 231, 232 Amer Gov	6
Phy 141, 142	
or	
Phy 140, 241	8
Eng Literature	3
HPE/MLb**/ROTC	2-4

34-36

## Third Year

Chm 341, 342 Organic.....	8
Chm 431, 432 Physical.....	6
Chm 413, 414 Physical Lab.....	2
Bio 341 Histology.....	4
Bio 347 Genetics or Phy 335 or	
Phy 222, 212.....	3
His 231, 232 Amer. His.....	6
Chm/Bio Electives.....	3-4

32-33

## Fourth Year

Chm 441, 442 Biochem.....	8
Chm 446 Instrumental.....	4
Chm 436 Inorganic.....	3
Chm 412 Sr. Seminar.....	1
Eng Literature or	
Eng 4335 Report Writing.....	3
Bio/Chm Electives***.....	7
Electives.....	6

32

Minimum 124 hours + HPE/MLb ROTC

\*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)

\*\*Offered Fall Semester only. If MLb option is desired it should be added to third and fourth years, as four semesters are required.

\*\*\*To be selected from Chm 430, Chm 433, Chm 435, Chm 437, Chm 438, Chm 444, Bio 342, Bio 344, Bio 347, Bio 441 and Bio 447.

## Bachelor of Arts—Chemistry Major

## First Year

Chm 141, 142 General.....	8
Bio/Geo 141, 142 General.....	8
Mth 236, 237 Calculus I, II.....	6
Eng Composition.....	6
HPE/MLb*/ROTC.....	2-4

30-32

## Second Year

Chm 241 Quantitative.....	4
Chm 333 Inorganic.....	3
Phy 140 Mech.....	4
Phy 241 Heat, Elec, Mag.....	4
Fre 131, 132 Elementary.....	6
Soph Am His.....	6
Eng Literature.....	6
HPE/MLb*/ROTC.....	2-4

35-37

## Third Year

Chm 341, 342 Organic.....	8
Phy 222, 212.....	3
Fre 231, 232 Reading.....	6
Gov 231, 232 Amer Gov.....	6
CS 133 Fortran.....	3
Minor/Electives.....	6

32

## Fourth Year

Chm 431, 432 Physical.....	6
Chm 413, 414 Physical Lab.....	2
Chm 411 Literature.....	1
Chm 412 Seminar.....	1
Minor/Electives.....	20

30

Minimum 123 + PE/MLb/ROTC

\*Offered Fall Semester only. If MLb option is desired, it should be added to third and fourth year, as four semesters are required.

## †Bachelor of Science in Biology

## †Bachelor of Science in Chemistry

## First Year

Bio 141-142 General.....	8
Chm 141-142 General.....	8
Eng Composition.....	6
Mth 1335 Precalculus.....	3
Mth 236 Calculus.....	3
PE/MLb 124**/ROTC.....	2-4
Electives.....	6

36-38

## Second Year

Chm 341-342 Organic.....	8
Mth 237 Calculus.....	3
Eng Literature.....	6
Phy 141-142 General.....	8
Chm 241 Quantitative.....	4
Gov 231-232.....	6
PE/MLb 124**/ROTC.....	2-4

37-39

## Summer

Phy 335 Modern.....	3
Bio 243.....	4
Bio 244.....	4
Electives.....	3

14

Third Year	
Bio 240 Comparative.....	4
Bio 344 Adv Physiology.....	4
Bio 342 Histology.....	4
Bio 343 Embryology.....	4
Soph Am His.....	6
Chm 413,414 Physical Lab.....	2
Chm 333 Inorganic.....	3
Chm 431, 432 Physical.....	6
Electives.....	3
	<hr/> 36

Fourth Year	
Bio 416 or 417 Bio Lit.....	1
Bio 447 Cellular.....	4
Bio 347 Genetics.....	4
Chm 441 Biochem.....	4
Chm Electives* min.....	8
Electives.....	11
	<hr/> 32

†Both degrees must be awarded simultaneously.

\*Chm. electives to be selected from Chm 430, 435, 438, 442, 444, 446.

\*\*Offered Fall Semester only. If MLb 124 option is desired it should be added to third and fourth year as four semesters are required.

## Bachelor of Science—Environmental Science

Interdisciplinary program in Chemistry, Biology and Civil Engineering.

First Year	
Bio 141, 142 General.....	8
Chm 141, 142 General.....	8
Eng Composition.....	6
Mth 1335 Precalculus.....	3
Mth 236 Calculus I.....	3
Elective.....	3
HPE/MLb*/ROTC.....	2-4
	<hr/> 33-35

Second Year	
Bio 243, 244 Microbio.....	8
Chm 241 Quantitative.....	4
Chm 334 Air Anal.....	3
Eng Literature.....	6
Mth 237 Calculus II.....	3
Phy 141, 142 General.....	8
HPE/MLb*/ROTC.....	2-4
	<hr/> 34-36

Third Year	
Bio 446 Ecology.....	4
Chm 341, 342 Organic.....	8
Chm 434 Air Pollu Surv.....	3
CE 331 Envir Sci.....	3
Eng 4335 Report Writing.....	3
HED 434 Hlth/Human Eco.....	3
HED 437 Hlth/Epid.....	3
Chm 333 Inorganic.....	3
Gov 231 Amer Gov I.....	3
	<hr/> 33

Fourth Year	
Bio 443 Limnology.....	4
Chm 410 Sem Envi Sci.....	1
Chm 438 Radiochem.....	3
Chm Electives**.....	6-8
His 231, 232 Amer His.....	6
Gov 232 Amer Gov II.....	3
Bio Electives.....	8
	<hr/> 31-33

Minimum 127 semester hours + HPE/MLb/ROTC

\*Offered Fall Semester only. If MLb option is desired it should be added to third and fourth year as four semesters are required.

\*\*Selected with approval of department.

## Cooperative Education Program

A Cooperative Education Program, in which the student spends alternate terms at study and at work, is available to qualified 3170 studies in the Department of Chemistry. Details may be obtained from the department head.

## Chemistry Courses (Chm)

130	Introductory Environmental Science	3:3:0
	Fundamental concepts of environmental systems as related to urban affairs and man's environment. Air, water and soil pollution with control methods related to the modern technological society.	
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.	
	<i>NOTE: It is strongly recommended that students enrolling have mathematics competency at or above the level of Mth 1334</i>	
141	General	4:3:3
	General practices, problems, fundamental laws and theories.	
	<i>Prerequisite: Chm 135 with a grade of C or better or satisfactory performance on diagnostic test.</i>	

142	<b>General</b>	4:3:3
	A continuation of Chm 141. Properties of the elements. Elementary qualitative analysis and theories of solutions and equilibrium. <i>Prerequisite: Chm 141.</i>	
143	<b>Introductory</b>	4:3:2
	For nonscience majors. A survey course in elementary inorganic chemistry.	
144	<b>Introductory</b>	4:3:2
	For nonscience majors. Continuation of Chm 143. Nuclear science, elementary organic and physiological chemistry. <i>Prerequisite: Chm 143 or 141.</i>	
241	<b>Quantitative Analysis</b>	4:3:5
	Theory and practice of analytical chemistry utilizing gravimetric and titrimetric techniques. <i>Prerequisite: Chm 142 with a grade of C or better.</i>	
333	<b>Inorganic</b>	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. <i>Prerequisite: Chm 142 with grade of C or better.</i>	
334	<b>Air Analysis</b>	3:3:3
	Theory and practice of chemistry as required in determination of ambient air quality. <i>Prerequisite: Chm 241, Mth 236 or parallel.</i>	
341	<b>Organic</b>	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. <i>Prerequisite: Chm 142</i>	
342	<b>Organic</b>	4:3:4
	A continuation of Chm 341. <i>Prerequisite: Chm 341.</i>	
410	<b>Seminar in Environmental Science</b>	1:1:0
	Reports and assigned reading. <i>Prerequisite: senior standing in Environmental Science.</i>	
411	<b>Chemical Literature</b>	1:1:0
	Lecture and assigned reading in the chemical literature. Chemical literature search on an advanced level. <i>Prerequisite: 20 semester hours of chemistry.</i>	
412	<b>Senior Seminar</b>	1:1:0
	Reports and assigned reading. <i>Prerequisite: senior standing in chemistry.</i>	
413	<b>Physical Laboratory</b>	1:0:4
	Laboratory applications of modern theory in physical chemistry. <i>Prerequisite: Chm 241, 431 or parallel.</i>	
414	<b>Physical Laboratory</b>	1:0:4
	Continuation of Chm 413. <i>Prerequisite: Chm 413, Chm 432 or parallel.</i>	
430	<b>Organic Polymers</b>	3:3:0
	Chemistry of industrial polymerization of organic compounds, petro-chemistry of organic monomer preparation and chemical characteristics of organic polymers. Industrial field trip(s). <i>Prerequisite: Chm 342, Chm 431 or CHE 441 or parallel.</i>	
431	<b>Physical</b>	3:3:0
	Modern chemical theory as applied to gases, liquids, solids and solutions. <i>Prerequisite: Chm 142, Phy 142 or 248, Mth 241 or 237 or parallel.</i>	
432	<b>Physical</b>	3:3:0
	A continuation of Chm 431. <i>Prerequisite: Chm 431 or equivalent.</i>	
433	<b>Modern Physical</b>	3:3:0
	Selected topics in modern physical chemistry. <i>Prerequisite: Chm 432</i>	
434	<b>Air Pollution Surveys</b>	3:3:3
	Chemical, physical, meteorological, biological, bacteriological and epidemiological factors as applied to determine the extent of environmental damage from air pollution. <i>Prerequisite: Chm 334 and senior standing.</i>	
435	<b>Chemical Preparations</b>	3:1:6
	Theory and practice of chemical synthesis techniques. <i>Prerequisite: Chm 241, 333 and 342.</i>	

436	<b>Inorganic</b>	3:3:0
	Study of the quantized atom, valency and the chemical bond, and coordination chemistry with applications to biological systems.	
	<i>Prerequisite: Chm 431.</i>	
438	<b>Radiochemistry</b>	3:2:3
	Basic concepts of nuclear science. Principles and use of radiation measuring devices.	
	<i>Prerequisite: Chm 241, Chm 333, Chm 431.</i>	
441	<b>Biochemistry I</b>	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.	
	<i>Prerequisite: Chm 342.</i>	
442	<b>Biochemistry II</b>	4:3:4
	A detailed survey of metabolic pathways and processes.	
	<i>Prerequisite: Chm 441.</i>	
444	<b>Qualitative Organic Analysis</b>	4:2:8
	A study of systematic methods for the identification of organic compounds and mixtures of organic compounds.	
	<i>Prerequisite: Chm 241 and 342.</i>	
446	<b>Instrumental Chemical Analysis</b>	4:3:4
	Instrumental techniques of chemistry. Theory and practice in optical, electrometric and chromatographic methods.	
	<i>Prerequisite: 3281 Chm 241, 342, 431</i>	
427,437,447	<b>Introduction to Research</b>	2-4:A:0
	Problems are on the undergraduate level and emphasize research techniques. With approval of the department head, these courses may be repeated for credit.	
	<i>Prerequisite: Minimum of 8 semester hours of chemistry above the freshman level and permission of instructor. semester hours of previous chemistry courses.</i>	
4101,4201,4301,4401	<b>Special Topics in Chemistry</b>	1-4:A:0
	Topics in under-graduate analytical, inorganic, organic and physical chemistry or biochemistry. Library and/or laboratory work and 3292 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.	
	<i>Prerequisite: Approval of instructor and department head.</i>	

## Department of Geology

Department Head: W.H. Matthews

214 Geology Building

Professors: Aronow, Matthews, Pampe

Associate Professor: Stevens

Assistant Professor: Jordan

Adjunct Instructor: Howes

In any of the following programs a grade of C or better is necessary in a required geology course.

### Recommended Programs of Study

#### Bachelor of Science—Geology Major

First Year	Second Year
Geo 141-142 Phys. Hist. .... 8	Geo 241 Mineralogy ..... 4
Chm 141-142 General ..... 8	Geo 243 Optical Min. .... 4
Mth 1335 Pre-Calculus ..... 3	Mth 149 Analyt Calculus II ..... 4
Mth 148 Analyt Calculus I ..... 4	Egr 1121, 1221 BASIC, FORTRAN. .... 3
Eng Composition ..... 6	Eng Literature ..... 3
PE Activity ..... 2	Spc 331 or OAS 335 or Eng 4326 ..... 3
31	Gov 231, 232 ..... 6
	PE Activity ..... 4
	31
Third Year	Fourth Year
Geo 341 Stat-Data Proc ..... 4	Geo 419 Seminar ..... 1
Geo 342 Structural Geo ..... 4	Geo 433 Geophysics ..... 3
Geo 345 Petrology ..... 4	Geo 434 or Geo 439 ..... 3
Geo 346 Sed Strat ..... 4	Geo 435 Geomorphology ..... 3
Phy 141-142 General ..... 8	Geo 437 or Geo 438 ..... 3
**Elective ..... 6	Geo 442 Strat Paleo ..... 4
31	His Soph Am His ..... 6
	**Electives ..... 9
	32



**Third or Fourth Summer**

Geo 360 Field Camp..... 6

Minimum Total 130

*\*Those planning to specialize in Geophysics should substitute the sequence Phy 140, 241, 242.  
\*\*At least 6 semester hours of electives must be other than Geology courses.*

**Bachelor of Science—Energy Resources Management**

**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 Composition..... 6  
PE Activity..... 2

31

**Third Year**

Geo 345 Petrology..... 4  
Geo 342 Structural Geo..... 4  
Geo 437 Econ Min. Deposits..... 3  
BAC 331, 332 Bus. Analy..... 3  
HIS 231 American His..... 3  
BLW 331 Bus. Law..... 3  
Eco 335 Intern'l Trade..... 3  
Spc 331 or OAS 335..... 3  
\*\*\*\*Elective..... 6

32

Minimum Total 132

*\*\*\*\*At least 6 semester hours of electives must be other than Geology courses.*

**Second Year**

Geo 241-243 Mineralogy, Optical..... 8  
Phy 141 General..... 4  
Acc 231-232 Principles..... 6  
Eco 131-132 Principles..... 6  
Eng Literature..... 3  
Egr 1121-1221, Basic, Fortran..... 3  
Gov 231..... 3  
PE Activity..... 2-4

35

**Fourth Year**

Geo 438 Fossil Fuels..... 3  
Geo 346 Sed-Strat..... 4  
Che 438 Petroleum Egr..... 3  
Mgt 331 Management..... 3  
BLW 434 Adv. Legal Princ..... 3  
BLW 438 Petroleum Law..... 3  
Gov 232 Intro Am Govt II..... 3  
His 232 Am Hist..... 3  
Eco 4315 Govt & Bus..... 3  
\*\*\*\*Electives..... 6

34

**Geology Courses (Geo)**

- 141 Physical Geology 4:3:2  
Earth materials, structures, land forms, mineral resources and the processes which formed them.
- 142 Historical Geology 4:3:2  
History of the earth and its life.  
*Prerequisite: Geo 141.*
- 220 Geology for Engineers 2:2:2  
A survey of physical geology for engineering students. A student may not receive credit for both Geo 220 and Geo 141.
- 237 Physical Geography 3:3:0  
The fundamental concepts of local, regional and global geography.  
*Prerequisite: Sophomore standing.*
- 238 Cultural Geography 3:3:0  
History and distribution of cultural groups with emphasis upon the interaction between geographic environment and human cultures.
- 239 History of Life 3:3:0  
History of the earth and its life forms. Includes the study of geologic time, fossils and prehistoric man. A student may not receive credit for both Geo 239 and Geo 142.
- 241 Mineralogy 4:3:3  
The classification, properties, occurrence and identification of minerals. Field trip required.  
*Prerequisite: Geo 141 and Chm 141 or 143.*
- 243 Optical Mineralogy 4:3:3  
Optical properties of minerals. Use of the polarizing microscope in the identification of minerals.  
*Prerequisite: Geo 241.*
- 336 Geology of Texas 3:3:0  
The topography, physiography, structure, geologic history and mineral deposits of Texas. Field trip required.  
*Prerequisite: Geo 142 or Geo 239.*

339	<b>Environmental Geography</b>	3:3:0
	The environmental significance of man's development of his atmospheric, aquatic and mineral resources. Field trips required. <i>Prerequisite: Geo 141 or 237.</i>	
341	<b>Statistics and Data Processing</b>	4:3:3
	The application of digital computer and statistical techniques to the analysis of earth science data. <i>Prerequisite: Egr 1221.</i>	
342	<b>Structural Geology</b>	4:3:3
	Rock deformation and the resulting structures. Field trip required. <i>Prerequisite: Geo 241, Mth 148.</i>	
345	<b>Petrology</b>	4:3:3
	The classification, properties, and occurrence of rocks. Macro and micro techniques for the identification of rocks. Field trip required. <i>Prerequisite: Geo 243.</i>	
346	<b>Sedimentation-Stratigraphy</b>	4:3:3
	The derivation and deposition of sediments. The environmental interpretation and physical correlation of sedimentary strata. Field trip required. <i>Prerequisite: Geo 345.</i>	
360	<b>Summer Field Course</b>	6:5:40
	Description of stratigraphic sections, preparation of geologic maps and field reports. <i>Prerequisite: Geo 342, 345.</i>	
418	<b>Earth Science Literature</b>	1:1:0
	Reports on current source materials. Not open to geology majors. <i>Prerequisite: 12 hours of Geology.</i>	
419	<b>Seminar</b>	1:1:0
	Written and oral reports on current geological literature. May be repeated for credit. <i>Prerequisite: 20 semester hours of Geology.</i>	
422	<b>X-ray Crystallography</b>	2:0:6
	X-ray techniques to identify crystalline substances. For advanced science and engineering students. <i>Prerequisite: one year of Chemistry or Physics.</i>	
427,428	<b>Special Project</b>	4:A:0
	An individual library, laboratory or field project. To receive credit, an acceptable typewritten report is required.	
433	<b>Geophysics</b>	3:3:0
	Application of the principles of physics to geologic problems. Use of geophysical techniques in petroleum exploration. <i>Prerequisite: Geo 342, Phy 142, Mth 149.</i>	
435	<b>Geomorphology</b>	3:3:0
	The development and classification of land forms. Field trip required. <i>Prerequisite: Geo 342.</i>	
436	<b>Geochemistry</b>	3:3:0
	The application of the science of chemistry to the solution of geological problems. <i>Prerequisite: Chem 142, Geo 243</i>	
437	<b>Economic Mineral Deposits</b>	3:3:0
	Origin and occurrence of commercially valuable minerals and rocks. Field trip required. <i>Prerequisite: Geo 345 or 4350.</i>	
438	<b>Fossil Fuels</b>	3:3:0
	Origin and occurrence of coal, oil and gas deposits. Field trip required. <i>Prerequisite: Geo 345 or 4350.</i>	
439	<b>Tectonics of North America</b>	3:3:0
	The development of tectonic theory as evidenced by and applied to the North American continent. <i>Prerequisite: Geo 342, 345.</i>	
442	<b>Stratigraphic Paleontology</b>	4:3:3
	The classification, morphology, and identification of invertebrate fossils. The application of paleontology to stratigraphic correlation. Field trip required. <i>Prerequisite: Geo 346.</i>	
4101,4201,4301,4401	<b>Special Topics in Earth Science</b>	4:A:0
	Topics in the earth sciences. May be repeated for credit when the area of study is different. <i>Prerequisite: Permission of the instructor.</i>	
4350	<b>Earth Materials</b>	3:3:0
	The study of minerals and rocks. Field trip required. A student may not receive credit for both Geo 4350 and Geo 241-243, 345. <i>Prerequisite: Geo 141, 237 or 239.</i>	

- 4370 **Meteorology** 3:3:0  
 The composition and processes of the atmosphere. Weather and climate and their effect on man's activities. Field trip required.  
*Prerequisite: 8 hours of science.*
- 4380 **Oceanography** 3:3:0  
 The structure, properties and processes of the hydrosphere. The role of the seas and oceans in the total environment.  
*Prerequisite: 8 hours of science.*

## Department of Physics

Department Head: Joe F. Pizzo

230 Archer Building

Professors: Pizzo, Rigney

Associate Professors: Peebles, Shepherd

Assistant Professor: Goines

Stockroom Supervisor: Scott

High school preparation for the physics major must include two units of algebra and f4 unit of trigonometry. Those having inadequate high school mathematics must take Math 1334 to make up the deficiency, preferably in the Summer Session preceding the freshman year of college.

Physics is the fundamental science. A major in physics can serve 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.

### Bachelor of Science—Physics Major

A total of 128 semester hours are required for this degree. In addition to general university requirements for the bachelor's degree listed in this bulletin under Academic Regulations, the degree requirements in physics are 26 semester hours in physics with at least 13 semester hours at the junior-senior level, including 333 and 335 and one of the three laboratory courses 324, 346 or 448; 15 semester hours of mathematics including 331 or 4301; and chemistry 142. Physics 110 is required of all freshman physics majors.

Although the preparation for some careers requires study in graduate school or professional school, at least the following options are available to the physics major:

- |                              |                          |
|------------------------------|--------------------------|
| 1. Physics (Graduate School) | 7. Liberal Arts          |
| 2. Pre-medical               | 8. Environmental Science |
| 3. Life Science              | 9. Engineering           |
| 4. Oceanography              | 10. Geology/Geophysics   |
| 5. Teaching                  |                          |
| 6. Chemistry                 |                          |

### Recommended Program of Study

First Year	Second Year
Chm 141-142 General ..... 8	Option ..... 8
Eng Composition ..... 6	Eng Literature ..... 6
Mth 148-149 Cal & An G I & II ..... 8	Mth 241 Cal & An G III ..... 4
Phy 140 Intro ..... 4	Phy 241-212-222 Intro ..... 7
Phy 110 Phy Today ..... 1	Electives ..... 5-7
Electives ..... 4-7	PE/MLb*/ROTC 2 sem ..... 2 or 4
PE/MLb*/ROTC 2 sem ..... 2 or 4	

Third Year	Fourth Year
Gov 231-232..... 6	Phy 448 Optics
His Soph American..... 6	or
Mth 331 or 4301 Diff Eq..... 3	Phy 346 Elected Measmnts
Phy 335 Modern Phy..... 3	or
Phy Electives..... 3-4	Phy 324 Modern Phy Lab..... 2-4
Option..... 12-15	Phy Electives..... 6-8
	Option..... 12-18
	Electives..... 10-15
33-36	30-35

\*Offered Fall Semester only. If MLb 124 option is desired it should be added to third and fourth year as four semesters are required.

## List of options:

**Preparation for graduate school in physics:** nine additional semester hours of mathematics and 12-16 additional semester hours of advanced physics. Suggested electives: two years of German.

**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:** 24-36 semester hours from English, history, government, 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, 12-24 semester hours of advanced engineering. Suggested electives: economics and sociology.

**Geology:** 20 semester hours of geology, eight additional semester hours of biology, 3-9 semester hours of electronics. Electives unrestricted.

## Cooperative Education Program

A Cooperative Education Program, in which the student spends alternate terms at study and at work, is available to qualified students in the Department of Physics. Details may be obtained from the department head.

## Physics Courses (Phy)

110	Physics Today	1:1:0
	A descriptive introduction to recent developments and noteworthy current problems, such as gravitational collapse.	
111	Astronomy Laboratory	1:0:2
	Measurements with astronomical instruments such as telescopes and spectrosopes. Use of photographs from astronomical observatories to identify variable stars and classify individual stars according to spectra and magnitudes.	
	<i>Prerequisite: Credit for or registration in Phy 137.</i>	
130	Mathematical Method in Physics	3:0:3
	Graphical analysis, vector operations, trigonometric operations for elementary physics problems; field and potentials.	

- 132 **Basics of Photography, Light and Optics** 3:2:1  
Light, cameras, lenses, film, filters, intensity, exposure, development, Kirlian, enlargement, color, infrared photography, Kirlian photography.
- 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.
- 140 **Introductory Mechanics** 4:3:3  
Emphasis is placed on derivation, units and problem solving.  
*Prerequisite: Credit for or registration in Mth 148.*
- 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.  
*Prerequisite: Mth 1212 or 1335 or high school trigonometry.*
- 142 **General Physics, Sound, Light, Electricity and Magnetism** 4:3:2  
A continuation of Phy 141.  
*Prerequisite: Phy 141.*
- 143 **Physical Science** 4:3:2  
Designed for non-science majors. Appropriate topics from physics and chemistry are covered. A student already having acceptable credit for Mth 1341, 148, 236 or equivalent or for Phy 140 or 141 may not receive credit for Phy 143.
- 144 **Physical Science** 4:3:2  
Covers topics not treated in Phy 143. Phy 143 is not a prerequisite for Phy 144. A student already having acceptable credit for Mth 1341, 148, 236 or equivalent or for Phy 142, 241 or 242 may receive credit for neither Phy 143 nor Phy 144.
- 212 **Introductory Physics, Laboratory on Vibrations and Waves** 1:0:3  
Laboratory course to accompany or follow Physics 222.  
*Prerequisite: Credit for or registration in Phy 222.*
- 222 **Introductory Physics, Vibrations, Sound and Light** 2:2:0  
Emphasis is placed on derivations, units and problem solving.  
*Prerequisite: Physics 241.*
- 234 **Career Development I** 3:A:0  
Career related special projects, with detailed written report evaluated by a faculty member in physics.  
*Prerequisite: Permission of department head.*
- 235 **Career Development II** 3:A:0  
Career related special projects, with detailed written report evaluated by faculty member in physics.  
*Prerequisite: Phy 234.*
- 241 **Introductory Physics, Heat, Electricity and Magnetism** 4:3:3  
Emphasis is placed on derivations, units and problem solving.  
*Prerequisite: Phy 140 and Mth 148.*
- 242 **Introductory Physics, Sound, Light and Quanta** 4:3:3  
Emphasis is placed on derivations, units and problem solving.  
*Prerequisite: Phy 241.*
- 245 **Introductory Acoustics** 4:3:2  
Vibrations, waves, intensity and loudness, pitch and frequency, quality, intervals and scales, room acoustics, musical instruments, the human voice, electronic production of sound.  
*Prerequisite: Knowledge of scales and some ability to identify intervals.*
- 247 **Calculus Based Physics I** 3:1:4  
Mechanics, vibrations, heat.  
*Prerequisite: Registration in or credit for Mth 149 and permission of department head.*
- 248 **Calculus Based Physics II** 3:1:4  
Electricity, magnetism, sound waves, optics.
- 324 **Modern Physics Laboratory** 2:1:3  
Selected experiments such as determination of the electronic charge and mass, and of Planck's constant; black-body radiation; gamma ray spectroscopy; specific heats of crystalline solids, mobility of electrons in semiconductors.  
*Prerequisite: Registration in or credit for Phy 335.*
- 330 **Modern General Physics** 3:3:0  
Electronics, the photoelectric effect, atomic structure, X-rays, molecular and crystal structure, radioactivity and nuclear reactions. A student may not receive credit for both Phy 335 and Phy 330.  
*Prerequisite: Physics 142 and a year of chemistry.*

- 333 **Analytical Mechanics** 3:3:0  
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:* *hy 140 or 141-142 and credit for or registration in Mth 331 or 4301.*
- 334 **Career Development III** 3:A:0  
Career related special projects, with detailed written report evaluated by a faculty member in physics.  
*Prerequisite:* *Physics 235.*
- 335 **Modern Physics** 3:3:0  
Conservation laws; special relativity; quantum effects; atomic structure; X-rays, nuclear and solid state physics.  
*Prerequisite:* *Phy 241-222 or Phy 141-142 and Mth 241.*
- 338 **Electricity and Magnetism** 3:3:0  
Electrostatic fields; potential; capacitance; dielectrics; electromagnetic waves. Maxwell's equations; conduction in gases; thermoelectricity.  
*Prerequisite:* *Phy 241-222 or 141-142 and credit for or registration in Mth 331 or 4301.*
- 339 **Thermal 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 241-222 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 241-242 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:* *6 hours of physics numbered above 300.*
- 416,417 **Seminar** 1:1:0  
Reports on current publications and on topics not treated in other physics courses.  
*Prerequisite:* *6 hours of physics numbered above 300.*
- 430 **Physical Oceanography** 3:0:3  
Mathematical methods necessary to understand properties and dynamics of oceans.
- 431 **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:* *Mth 331 or 4301, and Phy 333 or M.E. 231.*
- 432 **Introductory Quantum Mechanics** 3:3:0  
Basic concepts of quantum mechanics. Schrodinger's equation; wave functions.  
*Prerequisite:* *Phy 333 or 431, Phy 335 and Mth 331 or 4301.*
- 433 **Solid State Physics** 3:3:0  
Crystal structure; binding forces; mechanical and thermal properties; electrical conductivity; semiconductors; dielectric properties; magnetic properties; surface effects, phosphors and photoconductivity.  
*Prerequisite:* *Phy 335.*
- 434 **Career Development IV** 3:A:0  
Career related special projects, with detailed written report evaluated by a faculty member in physics.  
*Prerequisite:* *Physics 334.*
- 436 **Nuclear Physics** 3:3:0  
Elementary particles; nuclear scattering of particles; reactions and nuclear structure.  
*Prerequisite:* *Phy 335.*
- 437 **Astrophysics** 3:3:0  
Analysis of light; stellar spectroscopy; atomic theory as applied to stars, double stars; luminosities; temperature and diameters of stars; variable stars; star clusters; the nebulae; stellar atmospheres and interiors; evolution of the stars.  
*Prerequisite:* *Phy 335.*
- 448 **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 241-222 or Phy 141-142 and Mth 241.*



## College of Business

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

John A. Ryan, Ph.D., Dean

Robert A. Swerdlow, Graduate Coordinator

Charles F. Hawkins, Director of Research Services

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

Eleanor M. Stevens, Director of Advising Center

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 programs of the College of Business are accredited by the American Assembly of Collegiate Schools of Business.

Four departments—Accounting; Administrative Services; Economics; and Management, Marketing, and Finance—make up the College of Business. The Bachelor of Business Administration degree is granted in all areas. A Bachelor of Arts 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

Members of the faculty of the College of Business believe the education of the modern business man and woman should include a well-rounded general education as well as professional study to provide a thorough understanding of environment and heritage. Such an understanding is necessary if American industries are to meet their responsibilities in a changing social and industrial order.

Of equal importance is the business graduate's understanding of the social, legal, governmental and economic framework within which the American industrial organizations exist and operate. The general educational requirements are patterned to develop such understandings.

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.

Regardless of a graduate's position in the business world, he or she will need to understand the interaction of all areas and functions of business operations. The development of such basic business understandings 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. It prepares a graduate to assume a position of responsibility in business, public service or education.

The attainment of these objectives requires not only a given pattern of courses but also successful teaching and research. In classroom presentation, the College utilizes many approaches including lecture, discussion, case method, individual research projects, etc. Lower level courses are presented primarily from historic and descriptive points of view, while the upper level courses are designed to develop the student's ability to analyze and utilize research findings in problem-solving situations.



## Degrees

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

The degree will be awarded upon the completion of the following:

### I. Curriculum Requirements:

#### A. Non-professional education courses:

Eco 131, 132 Principles of Economics  
 English Composition six semester hours  
 Government 231, 232 American Government  
 Sophomore American History six semester hours  
 Literature three semester hours  
 Mth 134 Mathematics for Business Applications, Mth 1341 Elements of Analysis for Business Applications or Mth 236, 237 Calculus I and II  
 Four semesters of required physical activity and/or marching band and/or ROTC

Laboratory Science eight semester hours

Soc, Phl, Ant or Psy three semester hours

Spc 131 Speech Communication or

Spc 331 Business and Professional Speech

Approved non-professional education electives six to nine semester hours

#### B. Pre-professional courses:

Acc/AS/Eco/Mgt 130 Business Environment and Public Policy

CS 133 Introduction to Computer Programming\*

#### C. Professional core courses:\*

Acc 231, 232 Principles of Accounting

BAC 331, 332 Business Analysis I & II

BLW 331 Business Law

Eco 334 Macro Economics or

Eco 339 Economics of the Firm

Fin 331 Principles of Finance

Mgt 331 Principles of Management

Mgt 332 Production Management

Mgt 437 Administrative Policy

Mkt 331 Principles of Marketing

OAS 335 Business Communications

#### D. Professional Specialization (18-24 semester hours):

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

#### Accounting Major (24 semester hours)

Acc 331, 332 Inter Acc

Acc 334 Cost Acc

Acc 338, 339 Tax Acc

Acc 430 Auditing

Acc 431 Adv Acc

Acc 435 Acc. Systems

#### 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)

Eco 332 Money & Banking

Fin 332 Financial Analysis

Fin 333 Insurance

Fin 431 Investments

Fin 432 Financial Markets

Fin 433 Financial Institutions

Fin 434 Real Estate

#### General Business Major (18 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 3333 Graphic Design II

Art 3353 Fashion Layout and Illustration

Com 3383 Broadcast Advertising

Com 4383 Print Advertising

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 132 Computer Programing II

CS 3304 COBOL Programing

CS 4305 Data Structures and Algorithm Analysis

CS 4311 Information Systems I

4312 Information Systems II

Mgt 438 Management of Computer Systems

### Retail Merchandising

#### Concentration V

HEc 231 Textiles

HEc 331 Advanced Clothing

#### Construction

HEc 432 Family Clothing

HEc 434 Fashion Production and Distribution

HEc 436 Home and Fashion

#### Merchandising

Mkt 332 Principles of Retailing

### Pre-law Recommended Courses

Acc 338 Taxation Accounting

Acc 339 Taxation Accounting

BLW 434 Advanced Legal Principles

Fin 332 Financial Analysis or

Eco 336 Survey of Labor Economics

Fin 333 Insurance or

Fin 434 Real Estate

Mkt 438 Small Business Enterprise

**Management Major (18 semester hours)**

Acc 334 Cost Accounting

Mkt 431 Marketing Management

Mgt 333 Personnel Management

Mgt 431 Budgetary Control

Mgt 432 Organ Behav and Adm or

Mkt 435 Quant Tech in Mkt

BLW 332 Labor Law or

Eco 336 Survey of Labor Economics

**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 233 Advanced Typewriting

OAS 336 Word Proc Con & Admin

OAS 337 Elec Word Proc Sys

OAS 338 Sec Office Procedures

OAS 363 Advanced Shorthand & Transcription or

OAS 332 Advanced Dictation and OAS 333 Advanced Transcription

OAS 431 Office Management

**Office Administration Major — Plan II**

(21 semester hours)

OAS 233 Advanced Typewriting

OAS 336 Word Proc Con & Admin

OAS 338 Sec Office Procedures

OAS 363 Advanced Shorthand & Transcription or

OAS 332 Advanced Dictation and OAS 333 Advanced Transcription

OAS 431 Office Management

OAS 438 Business Edu Methods

### 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 Labor 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 128 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 Arts 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.

## Selection of a Major

Every candidate for a degree must choose a major field in the College of Business. This choice must be made before the beginning of the junior year and is subject to the approval of the head of the department of the major field.

## Minor Program in Business

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

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 Head: M. W. Veuleman

235 Galloway Business Building

Professors: Bennett, Jones, Veuleman

Associate Professors: Barlow, Davis, Harris

Assistant Professors: Croley, Hudson

Business and industry are controlled largely through the findings of adequate accounting systems. Accounting is concerned with the analytical recording of transactions related to a large variety of business, institutions and industries, including interpretations of resulting data. Decisions and policies of significance are based on information obtained through the medium of accounting procedures.

The program in accounting is designed for those students seeking careers in either private or public accounting. Students pursuing this degree program must take all professional courses at Lamar University.

## Bachelor of Business Administration — Accounting Major

### Recommended Program of Study

First Year	Second Year
Acc/AS/Eco/Mgt 130 Bus Envir & Pub Policy ..... 3	Acc 231, 232 Principles ..... 6
CS 133 Introduction to Computers ..... 3	Eng Literature ..... 3
Eco 131, 132 Principles ..... 6	Gov 231, 232 American Government ..... 6
Eng Composition ..... 6	His Sophomore American History ..... 6
Mth 134, 134I Mathematics for Business Applications & Elements of Analysis for Business Applications or Mth 236, 237 Calculus I & II ..... 6	Soc, Phil, Ant or Psy ..... 3
Laboratory Science ..... 8	Spc 131 or 331 ..... 3
PE Activity (2 semesters) ..... 2	PE Activity (2 semesters) ..... 2
34	32
Third Year	Fourth Year
Acc 331, 332 Intern ..... 6	Acc 430 Auditing ..... 3
Acc 338, 339 Taxation Accounting ..... 6	Acc 431 Advanced Accounting ..... 3
BAC 331, 332 Business Analysis ..... 6	Acc 334 Cost Accounting ..... 3
BLW 331 Business Law ..... 3	Acc 435 Accounting Systems ..... 3
Fin 331 Principles of Finance ..... 3	Eco 339 Economics of the Firm ..... 3
Mgt 331 Principles of Management ..... 3	Mgt 332 Production Management ..... 3
Mkt 331 Principles of Marketing ..... 3	Mgt 437 Administrative Policy ..... 3
Electives ..... 3	OAS 335 Business Communications ..... 3
33	6
	30

## Accounting Courses (Acc)

- 231 **Principles of Accounting** 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, liability accounting and corporate owner's equity accounting.
- 232 **Principles of Accounting** 3:3:0  
 A continuation of Acc 231 with additional financial accounting and concepts, procedures and uses of managerial accounting. First, a review and elaboration of accounting principles and specialized accounting topics. Second, cost and managerial accounting with basic cost systems, budgeting and special analyses for management.  
*Prerequisite: Acc 231 with grade of C.*
- 331 **Intermediate Accounting** 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 grade of B and Acc 232 with a grade of B.*
- 332 **Intermediate Accounting** 3:3:0  
 Continuation of Acc 331 with emphasis on current liabilities, long-term debt, leases, pensions, owners' equity, revenue recognition, income tax accounting, earnings per share, changes in financial position and accounting for inflation.  
*Prerequisite: Acc 331 with grade of C.*
- 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.*
- 337 **Municipal and Governmental Accounting** 3:3:0  
 Special procedures for enterprises operating under appropriated budgets with attention given to federal, state, municipal governmental units; bond funds; special assessment funds; general funds; budgets; financial statements.  
*Prerequisite: Acc 232.*
- 338 **Taxation Accounting** 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.*
- 339 **Taxation Accounting** 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.*
- 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.  
*Prerequisite: Acc 332 with grade of C.*
- 431 **Advanced Accounting** 3:3:0  
 Analysis of special problems and theories relative to partnership formation and operations: fund accounting; corporate mergers and acquisitions; consolidated statements; accounting for foreign operations.  
*Prerequisite: Acc 332 with a grade of C.*
- 433 **C.P.A. Review** 3:3:0  
 Preparation for candidates for the Certified Public Accountants' examination through review and study of problems and questions relative to the examination.  
*Prerequisite: Consent of the instructor.*
- 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.*
- 435 **Accounting Systems** 3:3:0  
 Analysis of theoretical models illustrating structure, design and installation of specific accounting systems with emphasis on computer applications.  
*Prerequisite: Acc 331.*
- 439 **Special Topics in Accounting** 3:3:0  
 Intensive investigation of accounting topics. Research and conferences with supervising faculty member.  
*May be repeated when area of study differs.*  
*Prerequisite: Senior standing; approval of department head and instructor.*

# Department of Administrative Services

Department Head: Nancy S. Darsey

237 Galloway Business Building

Professors: Darsey, Kirksey, Spradley, White

Associate Professor: Johnson

Assistant Professors: Barnes, Burke, Dorrell, Drapeau, Owens, Royse, Stevens, Vaughn

The Department of Administrative Services offers degrees in General Business and Office Administration as well as one-year and two-year certificates in Office Administration.

## 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 five 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 and Retail Merchandising Concentration.

A sixth General Business program is recommended for pre-law students. After completion of the General Business recommended program, students may apply directly to the law school 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.

The department also offers a two-year program for students in Office Administration. Offered only on the Beaumont campus, the two-year curriculum is designed to develop competence in typewriting, shorthand, computer concepts, accounting, business correspondence, and word processing concepts and techniques. Successful students are prepared to pass civil service examinations and the employment tests given by large business and industrial offices. A Certificate of Completion is awarded. One-year stenographic and clerical options are also offered on the Beaumont campus.

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
Acc/As/Eco/Mgt 130 Business Environment and Public Policy .....	Acc 231, 232 Principles .....
3	Eng Literature .....
CS 133 Introduction to Computers .....	Gov 231, 232 American Government .....
3	His Sophomore American History .....
Eco 131, 132 Principles .....	Soc, Phl, Ant or Psy .....
6	Spc 131 Public Speaking or 331 Business and Professional Speech .....
Eng Composition .....	PE Activity .....
6	Electives (non-business) .....
Mth 134, 134I Mathematics for Business Applications & Elements of Analysis for Business Applications & Mth 236, 237 Calculus I & II .....	3
6	2
Laboratory Science .....	3
8	
PE Activity .....	
2	

**Third Year**

BAC 331, 332 Business Analysis ..... 6  
 BLW 331 Business Law ..... 3  
 Fin 331 Principles of Finance ..... 3  
 Mgt 331 Principles of Management ..... 3  
 Mgt 332 Production Management ..... 3  
 Mkt 331 Principles of Marketing ..... 3  
 OAS 335 Business Communications ..... 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  
 Eco 334 Macro Economics or  
 Eco 339 Economics of the Firm ..... 3  
 Fin 333 Insurance or  
 Fin 332 Financial 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) ..... 5

29

**Advertising Communication Concentration—Plan II**

**First Year**

Acc/AS/Eco/Mgt 130 Business Environment  
 and Public Policy ..... 3  
 CS 133 Introduction to Computers ..... 3  
 Eco 131, 132 Principles ..... 6  
 Eng Composition ..... 6  
 Mth 134, 1341 Mathematics for Business Applications  
 & Elements of Analysis for Business Applications  
 or Mth 236, 237 Calculus I & II ..... 6  
 Laboratory Science ..... 8  
 PE Activity ..... 2

34

**Second Year**

Acc 231, 232 Principles ..... 6  
 Eng Literature ..... 3  
 Gov 231, 232 American Government ..... 6  
 His Sophomore American History ..... 6  
 Soc, Phl, Ant or Psy ..... 3  
 Spc 131 Public Speaking or 331 Business and  
 Professional Speech ..... 3  
 PE Activity ..... 2  
 Electives (non-business) ..... 3

32

**Third Year**

BAC 331, 332 Business Analysis ..... 6  
 BLW 331 Business Law ..... 3  
 Art 237 Graphic Design ..... 3  
 Fin 331 Principles of Finance ..... 3  
 Mgt 331 Principles of Management ..... 3  
 Mgt 332 Production Management ..... 3  
 Mkt 331 Principles of Marketing ..... 3  
 OAS 335 Business Communications ..... 3  
 Electives (College of Business  
 300 or 400 Level) ..... 5

32

**Fourth Year**

Art 3333 Graphic Design II ..... 3  
 Art 3353 Fashion Layout and Illustration ..... 3  
 Com 3383 Broadcast Advertising ..... 3  
 Com 4383 Print Advertising ..... 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

30

**Industrial Engineering Concentration—Plan III**

**First Year**

Acc/AS/Eco/Mgt 130 Business Environment  
 and Public Policy ..... 3  
 CS 133 Introduction to Computers ..... 3  
 Eco 131, 132 Principles ..... 6  
 Eng Composition ..... 6  
 Mth 134, 1341 Mathematics for Business Applications  
 & Elements of Analysis for Business Applications  
 or Mth 236, 237 Calculus I & II ..... 6  
 Laboratory Science ..... 8  
 PE Activity ..... 2

34

**Second Year**

Acc 231, 232 Principles ..... 6  
 Eng Literature ..... 3  
 Gov 231, 232 American Government ..... 6  
 His Sophomore American History ..... 6  
 Soc, Phl, Ant or Psy ..... 3  
 Spc 131 Public Speaking or 331 Business  
 and Professional Speech ..... 3  
 PE Activity ..... 2  
 Elective (non-business) ..... 3

32

**Third Year**

BAC 331, 332 Business Analysis ..... 6  
 BLW 331 Business Law ..... 3  
 Fin 331 Principles of Finance ..... 3  
 IE 3301 Survey of Industrial Engineering ..... 3  
 Mgt 331 Principles of Management ..... 3  
 Mkt 331 Principles of Marketing ..... 3  
 OAS 335 Business Communications ..... 3  
 Elective (non-business) ..... 3  
 Electives (College of Business  
 300 or 400 Level) ..... 5

32

**Fourth Year**

Eco 334 Macro Economics or  
 Eco 339 Economics of the Firm ..... 3  
 IE 333 Engineering Economy ..... 3  
 IE 339 Materials Science and  
 Manufacturing Processes ..... 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) ..... 6

30

## Computer Science Concentration—Plan IV

First Year	
Acc/AS/Eco/Mgt 130 Business Environment and Public Policy .....	3
CS 131 Computer Programing I.....	3
Eco 131, 132 Principles .....	6
Eng Composition .....	6
Mth 134, 1341 Mathematics for Business Applications & Elements of Analysis for Business Applications or Mth 236, 237 Calculus I & II.....	6
Laboratory Science .....	8
PE Activity .....	2
	34

Third Year	
BAC 331, 332 Business Analysis .....	6
BLW 331 Business Law .....	3
CS 3304 COBOL Programing.....	3
CS 4305 Data Structures and Alogrithm Analysis.....	3
Fin 331 Principles of Finance .....	3
Mgt 331 Principles of Management.....	3
Mkt 331 Principles of Marketing.....	3
OAS 335 Business Communications.....	3
Electives (non-business).....	3
Electives (College of Business 300 or 400 Level).....	2
	32

## Retail Merchandising Concentration—Plan V

First Year	
Acc/AS/Eco/Mgt 130 Business Environment and Public Policy .....	3
CS 133 Introduction to Computers.....	3
Eco 131, 132 Principles .....	6
Eng Composition .....	6
Mth 134, 1341 Mathematics for Business Applications & Elements of Analysis for Business Applications or Mth 236, 237 Calculus I & II.....	6
Laboratory Science .....	8
PE Activity .....	2
	34

Third Year	
BAC 331, 332 Business Analysis .....	6
BLW 331 Business Law .....	3
Fin 331 Principles of Finance.....	3
HEc 231 Textiles.....	3
HEc 331 Advanced Clothing Construction .....	3
Mgt 331 Principles of Management.....	3
Mkt 331 Principles of Marketing.....	3
OAS 335 Business Communications.....	3
Electives (College of Business 300 or 400 Level).....	5
	32

## Pre-Law

### Recommended Courses

First Year	
Acc/AS/Eco/Mgt 130 Business Environment and Public Policy .....	3
CS 133 Introduction to Computers.....	3
Eco 131, 132 Principles .....	6
Eng Composition .....	6
Mth 134, 1341 Mathematics for Business Applications & Elements of Analysis for Business Applications or Mth 236, 237 Calculus I & II.....	6
Laboratory Science .....	8
PE Activity .....	2
	34

Second Year	
Acc 231, 232 Principles .....	6
CS 132 Computer Programming II.....	3
Eng Literature .....	3
Gov 231, 232 American Government.....	6
His Sophomore American History.....	6
Soc, Phl, Ant or Psy .....	3
Spc 131 Public Speaking or 331 Business and Professional Speech.....	3
PE Activity .....	2
	32

Fourth Year	
CS 4311 Information Systems I.....	3
CS 4312 Information Systems II.....	3
Eco 334 Macro Economics or Eco 339 Economics of the Firm .....	3
Mgt 332 Production Management .....	3
Mgt 437 Administrative Policy .....	3
Mgt 438 Mgt Comp Systems.....	3
Elective (non-business).....	3
Electives (College of Business 300 or 400 Level).....	9
	30

Second Year	
Acc 231, 232 Principles .....	6
Eng Literature .....	3
Gov 231, 232 American Government.....	6
His Sophomore American History.....	6
Soc, Phl, Ant or Psy .....	3
Spc 131 Public Speaking or 331 Business and Professional Speaking .....	3
PE Activity .....	2
Elective (non-business).....	3
	32

Fourth Year	
Eco 334 Macro Economics or Eco 339 Economics of the Firm .....	3
HEc 432 Family Clothing.....	3
HEc 434 Fashion Production and Distribution.....	3
HEc 436 Home and Fashion Merchandising .....	3
Mgt 332 Production Management .....	3
Mgt 437 Administrative Policy .....	3
Mkt 332 Retailing.....	3
Elective (non-business).....	3
Electives (College of Business 300 or 400 Level).....	6
	30

Second Year	
Acc 231, 232 Principles .....	6
Eng Literature .....	3
Gov 231, 232 American Government.....	6
His Sophomore American History.....	6
Soc, Phl, Ant or Psy .....	3
Spc 131 Public Speaking or 331 Business and Professional Speech .....	3
PE Activity .....	2
Elective (non-business).....	3
	32

Third Year	
BAC 331, 332 Business Analysis .....	6
BLW 331 Business Law .....	3
Fin 331 Principles of Finance .....	3
Mgt 331 Principles of Management .....	3
Mgt 332 Production Management .....	3
Mkt 331 Principles of Marketing .....	3
OAS 335 Business Communications .....	3
Electives (non-business) .....	5
Electives (College of Business 300 or 400 Level) .....	3

32

Fourth Year	
Acc 338 and 339 Tax Acc .....	6
BLW 434 Advanced Legal Principles .....	3
Eco 334 Macro Economics or Eco 339 Economics of the Firm .....	3
Fin 332 Financial Analysis or Eco 336 Survey of Labor Economics .....	3
Fin 333 Insurance or Fin 434 Real Estate .....	3
Mgt 437 Administrative Policy .....	3
Mkt 438 Small Business Enterprise .....	3
Electives (College of Business 300 or 400 Level) .....	6

30

## 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	
Acc/AS/Eco/Mgt 130 Business Environment and Public Policy .....	3
Eco 131, 132 Principles .....	6
Eng Composition .....	6
Laboratory Science .....	8
Mth 134 & Mathematics for Business Applications & Elements of Analysis for Business Applications or Mth 236 & 237 Calculus I & II .....	6
OAS 233 Advanced Typewriting .....	3
PE (2 semesters) .....	2

34

Third Year	
BAC 331, 332 Business Analysis .....	6
BLW 331 Business Law .....	3
Fin 331 Principles of Finance .....	3
Mgt 331 Principles of Management .....	3
Mgt 332 Production Management .....	3
Mkt 331 Principles of Marketing .....	3
OAS 363 Advanced Shorthand & Transcription or OAS 332 Advanced Dictation and OAS 333 Advanced Transcription .....	6
Electives .....	3

30

Second Year	
Acc 231, 232 Principles .....	6
CS 133 Introduction to Computers .....	3
Eng Literature .....	3
Gov 231, 232 American Government .....	6
His Sophomore American History .....	6
Spc 131 Public Speaking or 331 Business and Professional Speech .....	3
PE (2 semesters) .....	2
Elective .....	3

32

Fourth Year	
Eco 334 Macro Economics or Eco 339 Economics of the Firm .....	3
Mgt 437 Administrative Policy .....	3
OAS 335 Business Communications .....	3
OAS 336 Word Processing Concepts & Administration .....	3
OAS 337 Electronic Word Processing Systems .....	3
OAS 338 Secretarial Office Procedures .....	3
OAS 431 Office Management .....	3
Soc. Phil or Ant .....	3
Electives (College of Business 300 or 400 Level) .....	8

32

**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.

First Year	
CS 133 Comp Prog .....	3
Eco 131, 132 Principles .....	6
Eng Composition .....	6
Laboratory Science (Same Science) .....	8
Mth 134 & 1341 Mathematics for Business Applications and Elements of analysis for Business Decisions or Mth 236 & 237 Calculus I & II .....	6
OAS 233 Advanced Typewriting .....	3
PE (2 semesters) .....	2

34

Second Year	
Acc 231, 232 Principles .....	6
Eng Literature .....	6
Gov 231, 232 American Government .....	6
His Sophomore American History .....	6
Spc 131 Public Speaking or 331 Business & Professional Speech .....	3
PE (2 semesters) .....	2
Elective .....	3

32



Third Year	
BAC 331 Business Analysis.....	3
BLW 331 Business Law.....	3
C&I 331 Foundations.....	3
C&I 332 Educational Psychology.....	3
C&I 338 Curriculum, Materials and Evaluation.....	3
Fin 331 Principles of Finance.....	3
Mgt 331 Principles of Management.....	3
Mkt 331 Principles of Marketing.....	3
OAS 363 Advanced Shorthand & Transcription or OAS Advanced Dictation and OAS 333 Advanced Transcription.....	6
Elective (Restricted).....	3
	33

Fourth Year	
C&I 438 Classroom Management.....	3
C&I 462 Student Teaching.....	6
Mgt 332 Production Management.....	3
Mgt 437 Administrative Policy.....	3
OAS 335 Business Communications.....	3
OAS 336 Word Processing Concepts & Administration.....	3
OAS 338 Secretarial Office Procedures.....	3
OAS 431 Office Management.....	3
OAS 438 Business Education Methods.....	3
Elective.....	3
	33

## Two-Year Certificate of Completion in Office Administration

First Year	
Eco 131, 132 Principles.....	6
Eng Composition.....	6
Mth 134 Mathematics for Business Applications.....	3
OAS 131 Secretarial Communications.....	3
OAS 134 Office Machines.....	3
OAS 135 Records Management.....	3
OAS 233 Advanced Typewriting.....	3
Spc 131 Public Speaking.....	3
PE (Activity).....	2
	32

Second Year	
Acc 231, 232 Principles.....	6
BLW 331 Business Law.....	3
CS 133 Introduction to Computers.....	3
Eng Literature.....	3
OAS 336 Word Processing Concepts & Administration.....	3
OAS 337 Electronic Word Processing Systems.....	3
OAS 338 Secretarial Office Procedures.....	4
OAS 363 Advanced Shorthand & Transcription or OAS Advanced Dictation and OAS 333 Advanced Transcription.....	6
Elective.....	3
	33

## One-Year Certificates

Stenographic Option	
CS 133 Introduction to Computers.....	3
Eng Composition.....	6
OAS 131 Secretarial Communications.....	3
OAS 134 Business Machines.....	3
OAS 135 Records Management.....	3
OAS Shorthand (2 courses).....	6
OAS Typewriting (2 courses).....	6
PE (Activity).....	2
	32

Clerical Option	
Acc 231 Prin.....	3
CS 133 Introduction to Computers.....	3
Eco 131 Principles.....	3
Eng Composition.....	6
OAS 131 Secretarial Communications.....	3
OAS 134 Business Machines.....	3
OAS 135 Records Management.....	3
OAS Typewriting (2 courses).....	6
PE (Activity).....	2
	32

## 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.
- 411-414 Special Topics in Administrative Services 1: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.  
*Prerequisite: Approval of department head and instructor.*
- 421-424 Special Topics in Administrative Services 2: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.  
*Prerequisite: Approval of department head and instructor.*
- 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.  
*Prerequisite: Approval of department head and instructor.*

## Business Analysis and Computers Courses (BAC)

- 230 **Elementary FORTRAN Applications to Business** 3:3:0  
An introductory course to familiarize business students with elementary applications of FORTRAN as needed in special business situations.  
*Prerequisite: CS 133.*
- 330 **Computer Application in Business COBOL** 3:3:0  
Emphasis on utilizing the resources of COBOL in business applications such as payrolls, accounts receivable and payable, invoice extensions, tax accounting problems and invoice updating.  
*Prerequisite: CS 133.*
- 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, business forecasting through time series analysis, index numbers, and probability in business decision making. Computer package programs are used throughout the course in analyzing realistic business problems.  
*Prerequisite: 6 hours of approved math.*
- 332 **Business Analysis II** 3:3:0  
A continuation of BAC 331. Emphasis on use of statistics in business decision making. Topics of study include probability distribution sampling and estimation, hypothesis testing in business research, business forecasting through regression analysis, Bayesian and chi-square analyses. Computer package programs are used throughout the course in analyzing realistic business problems.  
*Prerequisite: BAC 331.*
- 333 **Computer Applications in Business FORTRAN** 3:3:0  
Emphasis on utilizing the resources of FORTRAN in statistical and other business applications, such as measures of central tendency and dispersion, amortization schedules, depreciation and correlation analysis.  
*Prerequisite: BA 230 or equivalent.*
- 433 **Business Analysis III** 3:3:0  
An intermediate course in business analysis to prepare students for better utilization of quantitative techniques in every phase of business. Topics include analysis of variance, simple and multiple correlation and regression analysis, statistical decision theory and selected non-parametric statistical techniques.  
*Prerequisite: BAC 332.*

## 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 **Labor Law** 3:3:0  
Historical interpretations and present provisions of regulations governing labor. Common law; state and federal statutes; Fair Labor Standards Act; workmen's compensation; social security; liability; United States Department of Labor; social legislation.
- 434 **Advanced Legal Principles** 3:3:0  
Detailed study of applicable statutes governing sales, real property, bankruptcy, forms of business enterprise (corporations and partnerships), bulk transfers, documents of title and secured transactions, with particular emphasis given to the effect of the Uniform Commercial Code.  
*Prerequisite: BLW 331.*
- 438 **Petroleum Law** 3:3:0  
Survey of the legal factors involved in oil and gas ownership and production. Topics include rights and duties of the landowner; rights and duties of the producer and other parties to a lease; oil and gas leases; types of property interests in oil and gas leases; basics of pooling and utilization and problems commonly encountered in conveying of rights and ownership.  
*Prerequisite: BLW 331.*

## Office Administration Courses (OAS)

- 131 **Secretarial Communications** 3:3:0  
Practical secretarial projects emphasizing use of functional English in correspondence; good judgement in other secretarial communications.  
*Limited to students pursuing one- or two-year certificate programs.*
- 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 **Business Machines** 3:3:0  
Practical projects emphasizing knowledge and skills necessary to operate adding and calculating machines, duplicating machines, transcription machines, key punch and automatic typewriter.  
*Prerequisite: OAS 230 or comparable typewriting skill.*
- 135 **Records Management** 3:3:0  
Methods and procedures in classifying, storing, and retrieving business records: Filing systems; records management; mechanical retrieval; microrecords and retrieval; equipment; records control.
- 230 **Keyboarding** 3:2:2  
Introduction to touch typing 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** 3:2:2  
Introduction of either Gregg Diamond Jubilee or Century 21 Shorthand. Reading; writing; theory principles; brief or speed forms; previewed dictation.
- 232 **Intermediate Shorthand** 3:2:2  
Intensification of shorthand reading and writing skills. Brief form or speed form and theory review; speed-building dictation; pretranscription 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.*
- 262 **Beginning-Intermediate Shorthand** 6:4:4  
Intensive introduction to either Gregg Diamond Jubilee Shorthand or Century 21 Shorthand. (OAS 262 equivalent to OAS 231 and OAS 232). Reading; writing; theory principles; brief or speed forms and theory; previewed dictation; pretranscription practice.
- 332 **Advanced Dictation** 3:2:2  
Development of dictation speed, knowledge of nonshorthand elements of transcription, and ability to transcribe dictation into mailable form. Vocabulary development, theory reinforcement.  
*Prerequisite: OAS 232 or equivalent.*
- 333 **Advanced Transcription** 3:2:2  
Emphasis on refinement of shorthand skill--developing dictation speed and rapid, accurate transcription ability. Vocabulary development; office-style dictation; mailable letter production.  
*Prerequisite: OAS 332.*
- 334 **Dictation and Transcription** 3:3:0  
Stress on building shorthand speed and improving mailable-letter transcription skill. Vocabulary development; sustained dictation; volume production.  
*Prerequisite: OAS 363 or equivalent.*
- 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: Junior standing preferable; practical knowledge of touch typewriting helpful.*
- 336 **Word Processing Concepts and Administration** 3:3:0  
Concepts of word processing; phases; planning the work areas and work loads; teamwork; decision making; systems approach; cost control; office organization; management, and supervision of word processing installations. Comparison of features and capabilities of various automatic typewriter systems.
- 337 **Electronic Word Processing Systems** 3:3:0  
Basic operation of magnetic media automated typewriters in conjunction with transcription machines. Emphasis on recording, formatting, editing, temporary and permanent revising, merging, proof reading, and logging.  
*Prerequisite: OAS 132 and 336.*
- 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.
- 363 **Advanced Shorthand and Transcription** 6:4:4  
Improvement of ability to take dictation and transcribe mailable copy. (OAS 363 equivalent to OAS 332 and OAS 333) Theory principles; brief or speed form derivatives; vocabulary development; speed building; mailable transcription; office-style dictation.  
*Prerequisite: OAS 232 or equivalent.*

- 431 **Office Management** 3:3:0  
Administrative management of business offices; social, legal, and ethical considerations 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 **Business Education in the Secondary School** 3:3:0  
Teaching theories, materials, methods, and evaluation in business education with emphasis on motor-skill subjects. Other topics include history and trends, course planning, teaching aids and resources, and ethics and professional growth.

## Department of Economics

Department Head: Hi K. Kim

240 Galloway Business Building

Professors: Kim, Parigi, Partin

Associate Professors: C. Allen, Hawkins, Pearson

Assistant Professors: J. Allen, Choi, Chudzinski, Montano, Price

Instructor: Elliott

The Department of Economics offers two degrees:

**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 Arts:** 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 or education.

Representative employment opportunities for both degrees are found in banking, government, industrial relations, management, research and forecasting, communications, international trade and sales.

### Teacher Certification—Economics

Students of secondary education wishing to certify in Economics as a teaching field, see Department of Secondary Education 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

### Bachelor of Business Administration— Economics Major

First Year		Second Year	
Eco 131, 132 Principles .....	6	Acc 231, 232 Principles .....	6
Eng Composition .....	6	Eng Literature .....	3
Mth 134 & 1341 Math for Bus. Analysis & Applications Mth 236 & 237 Calculus I & II .....	6	Gov 231, 232 American Government .....	6
Laboratory Science .....	8	His Sophomore American History .....	6
CS 133 Introduction to Computers .....	3	PE Activity .....	2
PE Activity .....	2	Soc. Phil or Ant .....	3
		Spc 131 Public Speaking .....	3
		Elective .....	3
	31		32
Third Year		Fourth Year	
BLW 331 Business Law .....	3	Eco 332 Money and Banking .....	3
Fin 331 Principles of Finance .....	3	Eco 4315 Government and Business .....	3
Mkt 331 Principles .....	3	Mgt 331 Principles of Management .....	3
BAC 331, 332 Business Analysis .....	6	Mgt 332 Production Management .....	3
Eco 333 Intermediate Theory .....	3	Mgt 437 Administrative Policy .....	3
Eco 334 Macro Economics .....	3	OAS 335 Business Communications .....	3
Eco 339 Economics of the Firm .....	3	*Electives .....	12
*Electives .....	9		
	33		30

\*Electives must include 9 semester hours of advanced courses in economics, and six semester hours of approved, advanced electives.

### Bachelor of Arts— Economics Major

First Year		Second Year	
Eco 131, 132 Principles .....	6	Eng Literature .....	3
Eng Composition .....	6	Foreign Language .....	6
Mth 134 & 1341 Math for Bus Analysis and Applications Mth 236 & 237 Calculus I & II .....	6	Gov 231, 232 American Government .....	6
Laboratory Science .....	8	His Sophomore American History .....	6
PE Activity .....	2	CS 133 Introduction to Computers .....	3
Elective .....	3	PE Activity .....	2
	31	Elective .....	6
Third Year		Fourth Year	
Eco 333 Intern Theory .....	3	Eco 332 Money and Banking .....	3
Eco 334 Macro Economics .....	3	Eco 433 History of Economic Thought .....	3
Eco 339 Economics of the Firm .....	3	*Electives .....	24
BAC 331, 332 Business Analysis .....	6		
OAS 335 Business Communications .....	3		
Foreign Language .....	6		
*Electives .....	9		
	33		30

\*Electives include nine semester hours of advanced courses in economics, and six semester hours of approved, advanced electives.

### Economics Courses (Eco)

131 Principles (Micro)	3:3:0
Introduction to economic principles; allocation of resources; determination of output and prices; distribution; and managerial economics.	
132 Principles (Macro)	3:3:0
Emphasizes monetary theory; national income analysis; fluctuation and growth; public finance; international trade; and current economic problems.	
230 Current Economic Issues	3:3:0
A survey of current economic issues and problems: energy, environment, inflation, unemployment, tax structures, organization of industries and markets, and consumerism. Issues discussed will vary in order to emphasize topics of greatest concern. Course may be taken for credit by majors or non-majors.	
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: 6 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: 6 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: 6 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 analyses; 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 132, 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: 3 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: 3 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: 6 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.
- 439 **Mathematical Economics** 3:3:0  
A formulation of economic theory in mathematical terms. Special attention is given to general equilibrium analysis; interindustry economics and activity analysis.  
*Prerequisite: Eco 131, 132, Mth 1341 or differential and integral calculus.*

## Department of Management— Marketing—Finance

Department Head: Richard T. Cherry 236 Galloway Business Building  
Professors: Cherry, McCullough, Ryan  
Associate Professors: Brust, Brunson, Swerdlow, Taylor, Williams, Wooten  
Assistant Professors: Bilici, Corrigan, Godkin, Goetz, Jones, Steiert  
Management-Marketing Coordinator: R. Lynn Godkin

### Degree Programs

#### Finance

The finance program is designed in such a way that a graduate of the program will have a broad education in the financial aspects of our economy and will be qualified for a wide variety of positions in financial institutions and financial departments of business firms.

#### Management

The purpose of the management curriculum is to give the student an understanding of the fundamentals of management and the relationship between all functional areas of business control. This program will equip the student to advance more rapidly to an executive position in industry. A student may specialize in personnel management or in production management by exercising given options in the pattern of course work required.

#### Personnel Administration

The Bachelor of Business Administration in Personnel Administration offers professional training in areas of personnel management specialization. The curriculum is designed to provide the student with an understanding of personnel management and to educate majors in recognized functional fields of leadership in business and industry. The functional areas are: (1.) Employment, placement, and personnel planning. (2.) Training and development. (3.) Compensation and benefits. (4.) Health, safety, and security. (5.) Employment and labor relations. (6.) Personnel research.

After passing an examination in one of the functional areas listed above and meeting minimum experience requirements, the successful candidate will be awarded Accredited Personnel Specialist (APS) status.

#### Marketing

The marketing curriculum provides information concerning buying, transporting and selling of goods as now performed by the service organizations in our economy. Over one-fourth of all the employed workers in America are engaged in some phase of marketing. This field has countless opportunities for specialists.

## Academic Counseling

During the first two years of academic work in the College of Business, a finance, management, personnel administration or marketing major will be advised by a freshman and sophomore advisor located in room 120 of the Galloway Business Building. During the student's junior and senior years, he or she should maintain close contact with the faculty advisor and department head in selecting courses to achieve career objectives.

## 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
Acc/AS/Eco/Mgt 130 Business Environment and Public Policy ..... 3	Eng Composition ..... 3
Eng Composition ..... 3	Eco 132 Principles ..... 3
Eco 131 Principles ..... 3	CS 133 Introduction to Computers ..... 3
Mth 134 Mathematics for Business or Mth 236 Calculus I ..... 3	Mth 134 Elements of Analysis for Business or Mth 237 Calculus II ..... 3
Laboratory Science ..... 4	Laboratory Science ..... 4
PE/MLb/ROTC ..... 1-2	PE/MLb/ROTC ..... 1-2
17-18	17-18

### Second Year

First Semester	Second Semester
Eng Literature ..... 3	*Spc 131 or 331 ..... 3
His Sophomore American History ..... 3	His Sophomore American History ..... 3
Acc 231 Principles ..... 3	Acc 232 Principles ..... 3
Gov 231 American Government I ..... 3	Gov 232 American Government II ..... 3
Soc or Psy ..... 3	**Elective (non-business) ..... 3
PE/MLb/ROTC ..... 1-2	PE/MLb/ROTC ..... 1-2
16-17	16-17

\*Personnel Administration majors should take Spc. 334.

\*\*PE Activity not acceptable.

## Recommended Programs of Study

### Bachelor of Business Administration—Finance Major

(See Core Program of First and Second Year)

#### Third Year

First Semester	Second Semester
BAC 331 Business Analysis I ..... 3	BAC 332 Business Analysis II ..... 3
BLW 331 Business Law ..... 3	Fin 332 Financial Analysis ..... 3
Eco 332 Money and Banking ..... 3	Fin 333 Insurance ..... 3
Fin 331 Principles of Finance ..... 3	Fin 431 Investments ..... 3
Mkt 331 Principles of Marketing ..... 3	Mgt 331 Principles of Management ..... 3
*Elective (non-business) ..... 3	
18	15

#### Fourth Year

First Semester	Second Semester
Eco 334 Macro Economics or Eco 339 Economics of the Firm ..... 3	Fin 433 Financial Institutions ..... 3
Fin 432 Financial Markets ..... 3	Fin 434 Real Estate ..... 3
Mgt 332 Production Management ..... 3	Mgt 437 Administrative Policy ..... 3
OAS 335 Business Communications ..... 3	*Elective (non-business) ..... 3
Elective (College of Business 300 or 400 Level) ..... 3	Elective (College of Business 300 or 400 Level) ..... 3
15	15

\*PE Activity not acceptable.



## Bachelor of Business Administration Personnel Administration (Accreditation)

(See Core Program for First and Second Year)

### Third Year

First Semester	3	Second Semester	3
BLW 331 Business Law .....	3	Fin 331 Principles of Finance .....	3
Mkt 331 Principles of Marketing .....	3	Mgt 331 Principles of Management .....	3
BAC 331 Business Analysis I .....	3	BAC 332 Business Analysis II .....	3
Eco 334 Macro Economics or Eco 339 Economics of the Firm .....	3	OAS 335 Business Communications .....	3
*Elective (non-business) .....	3	Mgt 434 Productivity Management .....	3
	15		15

### Fourth Year

First Semester	3	Second Semester	3
Psy 336 Psy Tests & Measurements .....	3	BLW 332 Labor Law or Eco 336 Survey of Labor Economics .....	3
Mgt 333 Personnel Management .....	3	Mgt 437 Administrative Policy .....	3
Mgt 432 Organizational Behavior and Administration .....	3	Mgt 433 Contemporary Issues in Personnel Management .....	3
Mgt 332 Production Management .....	3	OAS 431 Office Management .....	3
Elective (College of Business 300 or 400 Level) .....	6	Elective (College of Business 300 or 400 Level) .....	3
	18		15

\*PE Activity not acceptable.

## Bachelor of Business Administration Management Major

(See Core Program for First and Second Year)

### Third Year

First Semester	3	Second Semester	3
Acc 334 Cost Accounting .....	3	Fin 331 Principles of Finance .....	3
BAC 331 Business Analysis I .....	3	BAC 332 Business Analysis II .....	3
BLW 331 Business Law .....	3	Mgt 332 Production Management .....	3
Eco 334 Macro Economics or Eco 339 Economics of the Firm .....	3	Mgt 333 Personnel Management .....	3
Mgt 331 Principles of Management .....	3	Mkt 331 Principles of Marketing .....	3
*Elective (non-business) .....	3		
	18		15

### Fourth Year

First Semester	3	Second Semester	3
Mgt 434 Productivity Management .....	3	Mgt 437 Administrative Policy .....	3
Mgt 431 Budgetary Control .....	3	Mkt 431 Marketing Management .....	3
Mkt 435 Quantitative Techniques in Marketing or Mgt 432 Organizational Behavior and Administration .....	3	*Elective (non-business) .....	3
OAS 335 Business Communications .....	3	Mgt 438 Management of Computer Systems or Mkt 438 Small Business Enterprise .....	3
Elective (Business 300 or 400 Level) .....	3	Elective (College of Business 300 or 400 Level) .....	3
	15		15

\*PE Activity not acceptable.

# Bachelor of Business Administration

## Marketing Major

(See Core Program for First and Second Year)

### Third Year

First Semester	Second Semester
BAC 331 Business Analysis I..... 3	BAC 332 Business Analysis II..... 3
Fin 331 Principles of Finance..... 3	BLW 331 Business Law..... 3
Eco 334 Macro Economics or Eco 339 Economics of the Firm..... 3	Mgt 332 Production Management..... 3
Mgt 331 Principles of Management..... 3	Mkt 332 Principles of Retailing..... 3
Mkt 331 Principles of Marketing..... 3	Mkt 333 Marketing Promotion or Mkt 432 Buyer Behavior..... 3
*Elective (non-business)..... 3	
<u>18</u>	<u>15</u>

### Fourth Year

First Semester	Second Semester
Mkt 431 Marketing Management..... 3	Mgt 437 Administrative Policy..... 3
Mkt 435 Quantitative Techniques in Marketing or Mkt 433 International Marketing..... 3	Mkt 437 Advanced Marketing Problems..... 3
Mkt 436 Marketing Research..... 3	*Elective (non-business)..... 3
OAS 335 Business Communications..... 3	Elective (College of Business 300 or 400 Level)..... 3
Elective (College of Business 300 or 400 Level)..... 3	Elective (College of Business 300 or 400 Level)..... 3
<u>15</u>	<u>15</u>

\*PE Activity not acceptable.

## Management Courses (MGT)

130	<b>Business Environment and Public Policy</b> A 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. <i>Recommended for freshmen who have an interest in business.</i>	3:3:0
331	<b>Principles of Management</b> Introduces and emphasizes the application of behavioral disciplines and principles of management to promote fundamental understanding of operating systems. Demonstrates the awareness of what managers should do or be aware of in the pursuit of good organizational performance. <i>Prerequisite: Eco 233 or Eco 131 and 132, Acc 232 and junior standing</i>	3:3:0
332	<b>Production Management</b> 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. <i>Prerequisite: Bac 331 and Mgt 331.</i>	3:3:0
333	<b>Personnel Management</b> 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. <i>Prerequisite: Mgt 331.</i>	3:3:0
419	<b>Special Problems in Business</b> Investigation into special areas in business under the direction of a faculty member.	1:A:0
429	<b>Special Problems in Business</b> Investigation into special areas in business under the direction of a faculty member.	2:A:0
431	<b>Budgetary Control</b> Theories, problems and techniques of internal financial and budgetary controls. Financial planning, budgetary construction, evaluation, performance rating, replanning. <i>Prerequisite: Mgt 331 and Fin 331.</i>	3:3:0
432	<b>Organizational Behavior and Administration</b> A survey of organization theory with emphasis on behavioral issues in both the private and public sectors. <i>Prerequisite: Mgt 331 and senior standing.</i>	3:3:0

- 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 331*
- 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, 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 133.*
- 439 **Special Problems in Business** 3:A:0  
Investigation into special areas in business under the direction of a faculty member.
- 449 **Special Problems in Business** 4:A:0  
Investigation into special areas in business under the direction of a faculty member.

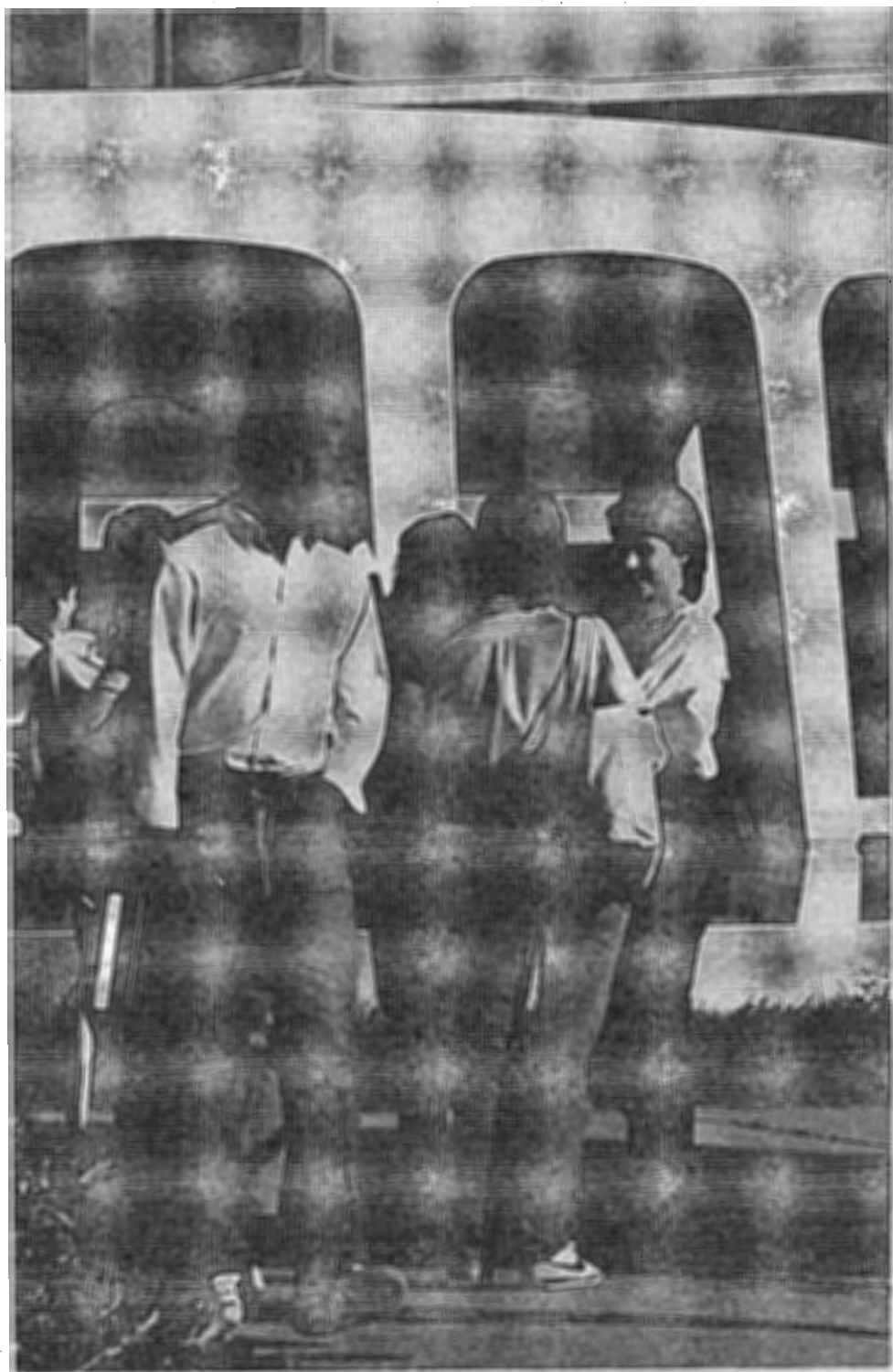
## Marketing Courses (MKT)

- 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.*
- 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.*
- 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: Bac 332.*
- 436 **Marketing Research** 3:3:0  
The importance and use of marketing research in U.S. business is stressed. A detailed analysis 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.*
- 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.*
- 438 **Small Business Enterprise** 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 332 and senior standing in the College of Business.*

## 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 and business. Emphasis is placed on problems concerning financial planning, investments in real estate, personal property, insurance, and securities.  
*Prerequisite: Non-finance majors only.*
- 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** 3:3:0  
A study of the operation of supply and demand for funds in financial markets to determine interest rates. Topics include sectoral supply, demand factors, and the analysis of markets for specific types of financial instruments.  
*Prerequisite: Fin 331.*
- 433 **Financial Institutions** 3:3:0  
A survey of the operating characteristics, sources and uses of funds and regulatory environment of the major financial institutions in the U.S. economy.  
*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.*



## College of Education

**Departments:** Curriculum and Instruction, Health and Physical Education, and Dance, Home Economics, Professional Development and Graduate Studies.

Jams O. Schnur Ed.D., Dean

James Lane, Ed.D., Director of Certification and Admissions

E. Lee Self, Ph.D., Director of Field Experiences and Advisement

The College of Education was established in 1959 and includes the Departments of Curriculum and Instruction, Health, Physical Education and Dance, and Home Economics, and Professional Development and Graduate Studies.

Providing education for 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.

Graduate programs in the College of Education are described in the Graduate Studies Catalog of the university.

Degree and certification programs are described in separate departmental sections of this bulletin.

### Degrees Offered

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

Elementary Education

Secondary Education

Special Education

Health Education

Home Economics

Physical Education

Dance

**Bachelor of Arts** with a major in Dance

**Associate of Applied Science-Food Service Management**

**Associate of Science-Education**

### Objectives

The faculty of the College of Education plans its curricula to provide graduates with solid academic foundations. This general education provides background in the social, economic and cultural aspects of contemporary life and is designed to give prospective teachers more understanding and wider experience on which to base their professional careers.

Professional education programs have been built on a base of theory, principles, and techniques determined to be useful in the field of practice.

The faculty integrates academic and professional study through lectures, discussions, and simulations through the observation of children in the teaching-learning process, through supervised student teaching and through the utilization of the best available equipment and materials.

### 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 and the actual curriculum requirements in each program are determined by the Teacher Education Council. This Council is composed of faculty members who represent the various colleges of the University offering teacher education programs. Within the framework of the policies established, the College of Education coordinates all teacher education programs throughout the institution.

## 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, mental retardation, physically handicapped/minimal brain injury, emotionally disturbed, language and/or learning disabilities, early childhood/exceptional children, education of the deaf, speech and hearing therapy, driver education, all-levels music, all-levels art, 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.

## Admission to Teacher Education

Application for admission to the teacher education program is made the semester prior to the beginning of the junior year and before the time students are enrolled in Education 331 or 332. To be eligible for Education 331 or 332 or the first course in education taken at Lamar University, in the case of transfer students, the student must present a 2.0, C, overall grade point average in all courses taken. The student also must have successfully completed 60 hours of academic credit including the required 100 and 200 level general education requirements as described in the Degree Requirements section of this catalog.

To be admitted to the College of Education's approved teacher education program, students must achieve a satisfactory level of performance on a competency examination of basic skills. The content to be tested and the criteria for satisfactory performance shall be established by the Texas State Board of Education after recommendations have been made by the Commission on Standards for the Teaching Profession through the Commissioner of Education. This requirement shall apply to all persons admitted into this approved teacher education program after May, 1984. Students are advised to take this examination during the sophomore year and before enrollment in teacher education courses.

## Admission to Student Teaching

Students wishing to enroll in student teaching must be selected and approved in order to be eligible to register. Applications for student teaching must be submitted to the director of field experience by May 1, prior to the academic year for which student teaching is planned. This includes applications for the Spring Semester as well as applications for the Fall. Failure to follow this procedure may delay admission to the student teaching program by at least one semester.

In order to qualify for student teaching, students must meet the following standards:

1. Be of senior standing.
2. Possess a grade point average of 2.0 in all work taken, in all subject areas in which he/she intends to teach and in all professional education courses completed.
3. Have completed adequate hours and courses in content areas in which he/she is certifying to teach.
4. Have completed all prerequisite courses in professional education.
5. Have demonstrated satisfactory performance on the state competency examination of basic skills and been admitted to teacher education.
6. Be approved by the director of field experience and advisement.
7. Have completed at least six semester hours in education courses at Lamar University prior to student teaching.
8. Have completed at least six hours in each teaching field (secondary), or in the area of specialization (elementary), at this University prior to student teaching (unless this requirement has been waived in writing by each of the concerned department heads).

## Certification Policies

To be recommended for a teaching certificate, the applicant must present:

1. A grade point average of 2.0, (C) in all work undertaken at Lamar, 2.0 in elementary school specialization or in each teaching field and 2.0 in the professional education courses relevant to the certificate.
2. A minimum of six 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 education (unless this requirement is waived in writing by the head of the department).
  - b. In the area of specialization for elementary education (unless this requirement is waived in writing by the head of the department).
4. Evidence of successfully completing student teaching requirements in the area of certification sought.

## Provisional Certificate and Degree Requirements

Provisional Certificate programs are offered in elementary education, secondary education, special education-generic, vocational home economics, all-levels art, all-levels music and all-levels speech and hearing therapy. Provisional Certificate endorsements are available in driver education, kindergarten education, English as a second language and in several areas of special education. Information concerning these programs may be found in the following paragraphs or in departmental sections of this bulletin.

Provisional Certificate requirements and requirements for professional education degrees are identical. Each program is composed of four parts: (1) academic foundations, (2) academic specialization, (3) professional development, and (4) free electives. Programs require the completion of 126 to 132 semester hours.

Academic foundation requirements for certificate programs are described below. Other requirements are outlined under the departmental sections of the bulletin.

### Academic Foundations (54 to 60 semester hours)

The academic foundation program outlined below 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.

- |   |                |
|---|----------------|
| 1. Required core courses.....                         | 42 hours       |
| English Composition .....                             | 6 hours        |
| Eng Literature .....                                  | 6 hours        |
| Mth (to include at least one                          |                |
| course at or above the level of Mth 1334).....        | 6 hours        |
| Science Laboratory (same science).....                | 8 hours        |
| Gov 231 Intro Am Gov I .....                          | 3 hours        |
| Gov 232 Intro Am Gov II .....                         | 3 hours        |
| His Sophomore American History.....                   | 6 hours        |
| PE Activity (four semesters).....                     | 4 hours        |
|   | 42 hours       |
| 2. Foundations electives and degree requirements..... | 12 to 18 hours |
- These hours must be selected from approved courses in the following groups with courses included from a minimum of three groups:
- Group I: English, Foreign Language, Philosophy, Bible.
  - Group II: Art, Music, Speech.
  - Group III: Biology, Chemistry, Mathematics, Geology, Physics.
  - Group IV: History, Government, Economics, Geography.
  - Group V: Sociology, Anthropology, Psychology.



## Special Certificates and Endorsements

**All-levels Art degree and certificate.** Described in the "Art" section of this bulletin.

**Athletic Training.** Described in the "Division of Health, Physical Education and Dance" section of this bulletin.

**Driver education endorsement.** Described in the "Division of Health, Physical Education and Dance" section of this bulletin.

**Kindergarten education endorsement.** Described in the "Elementary Education" section of this bulletin.

**All-levels Music degree and certificate.** Described in the "Music" section of this bulletin.

**Special education certificate endorsements.** Described in the "Special Education" section of this bulletin.

**Education of the deaf and speech and hearing therapy.** Described in the "Communication" section of this bulletin.

**Vocational Home Economics degree and certificate.** Described in the "Home Economics" section of this bulletin.

**English as a Second Language endorsement.** described in the English as a second language section of this bulletin. This endorsement may be added to any provisional teaching certificate by successful completion of the following coursework:

**English 4312-Studies in Languages and Linguistics**

**ESL 432 Foundations in Teaching ESL**

**ESL 433-Psycholinguistics**

**ESL 434-Introduction to Linguistics**

## 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 Certification Office
2. Persons with degrees from Texas colleges and persons with degrees from out-of-state colleges apply to in the College of Education Certification 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 may obtain information from the College of Education Certification Office.

## Professional Certificates

Requirements for Professional Certificates are described in the Graduate Bulletin.

## Department of Curriculum and Instruction

Accredited by the National Council for the Accreditation of Teacher Education

Department Head: Dr. Greg Stefanich

202 Education Building

Professors: Burke, Hogue, McLaughlin, Self, Sontag, Synder

Assistant Professor: Brazell, Bruneay, Cass, Fitzgerald, Karlin, Lane, Matheny

Instructor: Blanks

## **Bachelor of Science Degree in Education Elementary**

The Bachelor of Science degree in Elementary Education is designed to meet the requirements for a Provisional Elementary Teaching Certificate in the State of Texas. The persons who major in elementary education also may receive a certificate endorsement to teach one or more special education fields, 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 program, (previously described), 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 12 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 to six semester hours.

### **Academic Foundations (54-60 Semester Hours)**

Described in prior section.

### **Academic Specialization (36 Hours)**

- A. Specialization in one area (18 hours, nine advanced, except in generic special education, life-earth science and home economics which require 24). Courses must be in one of the following areas: art, drama, economics, English, one foreign language, generic special education, history, home economics, life-earth science, mathematics, music, physical education, psychology, reading, one science, sociology or speech. Courses may include six hours, (eight in science), taken as part of the academic foundations. A listing of course sequences is available in the office of the head of the Department of Curriculum and Instruction or the director of the Advising Center.
- B. Work in a combination of subjects (18 semester hours). Geo 237 or Geo 238 Art 3371 Elementary Art Education Spc 333 Interpretation of Children's Literature or The 336 Creative Dramatics MPE or WPE 339 Physical Education in Elementary School MEd 131 Elements of Music His 134 History of Texas.

### **Professional Development (30 semester hours)**

- C&I 331 Foundations in Education
- C&I 332 Educational Psychology
- C&I 333 Language Arts in the Elementary School
- C&I 334 Child Development and Evaluation
- C&I 335 Arithmetic in the Elementary School
- C&I 339 Reading in the Elementary School
- C&I 434 Classroom Management
- C&I 437 Science & Social Studies in the Elementary School
- C&I 465 Student Teaching in the Elementary School

### **Free Electives (six semester hours)**

A minimum of six semester hours are to be chosen by the student as free electives.

## **Bachelor of Science — Elementary Education**

### **Recommended Program of Study**

The elementary education degree and certification requirements are shown in outline form below, comprising a desirable sequence of courses.

First Year	
Eng Composition .....	6
Science Laboratory .....	8
Mth 135, 136 Contemporary Mathematics .....	6
MEd 131 Elements of Music .....	3
His 134 History of Texas .....	3
PE Activity .....	2
Academic Foundations Electives .....	3
Geo 237 or 238 Physical, Cultural Geology .....	3
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34	

Third Year	
Art 3371 Elementary Art Education .....	3
C&I 331 Foundations of Education .....	3
C&I 332 Educational Psychology .....	3
C&I 333 Language Arts in the Elementary School .....	3
C&I 334 Child Development and Evaluation .....	3
C&I 335 Arithmetic in the Elementary School .....	3
C&I 339 Reading in the Elementary School .....	3
C&I 434 Classroom Management .....	3
Spc 333 Interpretation of Children's Literature .....	3
Area of Specialization .....	9
<hr/>	
36	

Second Year	
Eng Literature .....	6
His Sophomore American History .....	6
Gov 231 Introduction to American Government I .....	3
Gov 232 Introduction to American Government II ...	3
Science .....	3
PE 339 Physical Education in the Elementary School.	3
PE Activity .....	2
Area of Specialization .....	3
Mth 3313 Modern Elementary Geometry .....	3
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32	

Fourth Year	
C&I 437 Science and Social Studies .....	3
C&I 465 Student Teaching in the Elementary School.	6
Area of Specialization .....	6
Academic Foundations Electives .....	9
Free Electives .....	6
<hr/>	
30	

## Bachelor of Science — Elementary Education (Reading Specialization)

The elementary education degree with a specialization in Reading is shown in outline form below, comprising a desirable sequence of courses.

First Year	
Eng Composition .....	6
Science Laboratory .....	8
Mth 135, 136 Contemporary Mathematics .....	6
MEd 131 Elements of Music .....	3
His 134 History of Texas .....	3
PE Activity .....	2
Academic Foundations Electives .....	3
Geo 237 or 238 Physical, Cultural Geology .....	3
<hr/>	
34	

Third Year	
Art 3371 Elementary Art Education .....	3
C&I 331 Foundations of Education .....	3
C&I 332 Educational Psychology .....	3
C&I 333 Language Arts in the Elementary School .....	3
C&I 334 Child Development and Evaluation .....	3
C&I 335 Arithmetic in the Elementary School .....	3
C&I 339 Reading in the Elementary School .....	3
C&I 434 Classroom Management .....	3
C&I 336 Children's Literature .....	3
C&I 337 Materials and Resources .....	3
Spc 333 Interpretation of Children's Literature .....	3
<hr/>	
33	

Second Year	
Eng Literature .....	6
His Sophomore American History .....	6
Gov 231 Introduction to American Government I ...	3
Gov 232 Introduction to American Government II ...	3
Science .....	3
PE 339 Physical Education in the Elementary School.	3
Mth 3313 Modern Elementary Geometry .....	3
C&I 232 Foundations of Reading Instruction .....	3
C&I 233 Reading Skills .....	3
PE Activity .....	2
<hr/>	
35	

Fourth Year	
C&I 437 Science and Social Studies .....	3
C&I 465 Student Teaching in the Elementary School.	6
C&I 431 Diagnostic-Prescriptive Techniques .....	3
C&I 439 Reading Practicum .....	3
Academic Foundations Electives .....	9
Free Electives .....	6
<hr/>	
30	

## Bachelor of Science — Elementary Education

### Special Education — Generic

The Bachelor of Science Degree in Elementary Education, with Special Education-Generic as an Area of Specialization, is shown below. Variations to meet individual student needs in the program of study are possible. Specific information may be obtained from either the Department of Curriculum and Instruction or the Advisement Office.

First Year	
Eng Composition .....	6
Science-Laboratory .....	8
Mth 135, 136 Contemporary Mathematics .....	6
MEd 131 Elements of Music .....	3
His 134 History of Texas .....	3
PE Activity (1 per semester) .....	2
Academic Foundations Electives .....	3
Geo 237 or 238 Physical, Cultural Geology .....	3

34

Second Year	
Eng Literature .....	6
His Sophomore American History .....	6
Gov 231 Introduction to American Government I .....	3
Gov 232 Introduction to American Government II .....	3
PE Activity (1 per semester) .....	2
C&I 2301 Foundations of Special Education .....	3
C&I 2302 Identification of Exceptional Individual .....	3
Mth 3313 Modern Elementary Geometry .....	3
Science .....	3

32

Third Year	
C&I 3304 SpEd Needs Excp Ind .....	3
C&I 3305 Rdng/L.A. Excp Lrn .....	3
C&I 4307 Prctm Rdng/L.A. Excp .....	3
PE 335 or 339 Atypical/Elem Schl .....	3
Art 3371 Elementary Art Education .....	3
C&I 331 Foundations of Education .....	3
C&I 332 Educational Psychology .....	3
C&I 333 Language Arts in the Elementary School .....	3
C&I 334 Child Development and Evaluation .....	3
C&I 335 Arithmetic in the Elementary School .....	3
C&I 339 Reading in the Elementary School .....	3
Free Electives .....	3

36

Fourth Year	
C&I 4308 Apprsl Proc Excp .....	3
C&I 4309 Instruction of Exceptional Learner .....	3
C&I 4310 Practicum Instructing Exceptional Learner .....	3
Spc 333 Interpretation of Children's Literature .....	3
C&I 437 Science and Social Studies .....	3
C&I 434 Classroom Management .....	3
C&I 463 Student Teaching-Special .....	6
Academic Foundations Electives .....	3
Free Electives .....	3

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## Bachelor of Science—Teacher of Young Children Ages 3-8

### Recommended Program of Study

The Teacher of Young Children Ages 3-8 degree and certifications requirements are shown in outline form below, comprising a desirable sequence of courses.

First Year	
Eng Composition .....	6
Science Laboratory .....	8
Mth 135, 136 .....	6
HEC 137, 233 .....	6
MED 131 .....	3
PE Activity .....	2
Academic Found. Elect .....	3

34

Second Year	
Eng Literature .....	6
American Hist .....	6
Government 231, 231 .....	6
WPE 339 .....	3
C&I 233, 2301 .....	6
HEC 239 .....	3
PE Activity .....	2

32

Third Year	
C&I 330, 336 .....	6
C&I 333, 335 .....	6
C&I 339, 4311 .....	6
HEC 334, 339 .....	6
WPE 433 .....	3
Spc 3302 .....	3
Acad. Found Elect .....	3
Art 3371 .....	3

36

Fourth Year	
C&I 437, 4312 .....	6
C&I 4308 .....	3
HEC 4327 .....	3
Soc 432 .....	3
Acad. Found Elect .....	3
Free Electives .....	6
C&I 463 .....	6

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## Kindergarten Certificate Requirements

Kindergarten education may be added as an additional endorsement to the Provisional Elementary Certificate and is based on 0497 the successful completion of the courses listed below.

C&I 4302 Early Childhood Development .....	3
C&I 4303 Instruction in Early Childhood.....	3
C&I 4304 History and Philosophy of Kindergarten .....	3
C&I 463 Student Teaching (three hours 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 Education and after teaching one year in an accredited kindergarten.

Kindergarten certification course work can be obtained on the Master's degree in Elementary Education. See the Graduate Bulletin for further information.

An Early Childhood/Exceptional Children certificate is obtainable. For details see Curriculum and Instruction section of this bulletin.

## Bachelor of Science Degree in Education — Secondary

The Bachelor of Science degree in Secondary Education is designed to meet the requirements for the Provisional Secondary Certificate in the State of Texas. Those who complete the requirements for the degree will be eligible for certification in the particular teaching fields selected or single field as explained previously in certification requirements. Persons who certify in secondary education may, through planning the use of electives or taking additional work, receive certificate endorsements qualifying them to teach in one or more areas of special education or driver education. Attention is called to the fact that students may qualify for a certificate to teach in secondary education or by fulfilling certification requirements while obtaining a degree in a specific discipline. Some programs are available through only one of the above avenues, as shown below:

Bachelor of Science Secondary Education	Bachelor's Degree in a Particular Discipline
Art	Art (all levels)
Biology	Business (Office Administration)
Chemistry	Communication (Journalism)
Communication (Journalism)	Dance
Computer Science	English
French	
Earth Science	Government
Economics	Health Education
English (second field only)	History
French	Home Economics
General Science	Mathematics
Government	Music (all levels)
Physical Education	Physics
History	
Life-Earth Science Middle School	Spanish
Mathematics	Special Education Generic
Theater	Speech
Physical Science	

Physics  
 Psychology  
 Social Studies  
 Sociology  
 Spanish  
 Special Education  
     Generic (second field only)  
 Speech  
 Theater

In addition to completing the academic foundations program (described previously in the explanation for certification), students must fulfill the requirements in the areas of specialization, professional education and elective courses. These plans allow for an overlap of six semester hours, (eight in case of sciences), taken in academic foundations which may be included in any one teaching field. This allows an increase of free electives to 12 semester hours if there is an overlap in one field (14 in the area of science) and to 18 semester hours (20 if one field is science) if there is an overlap in each field. Of course, if there is no overlap between the academic foundations and the teaching fields, the free electives are limited to six semester hours. The requirements are explained in the four following areas.

1. **Academic Foundation (54-60 Semester Hours)** Described in introductory section for College of Education
2. **Academic Specialization (48 Semester Hours Minimum)** All curricula leading to certification in secondary fields require a minimum of 24 semester hours, (12 advanced), in each of the two teaching fields or a minimum of 48 semester hours, (18 advanced), in a single area of specialization. All programs at this University except office administration, general science, home economics, all-levels art, all-levels music and social studies require two teaching fields.

Students certifying under Plan I, (two teaching fields), are required to select one academic field as being of greatest interest. Details concerning specific requirements in the various specialization areas may be found in the sequence below:

**Art Specialization:** (24 semester hours) Art 131, 133, 134, 231, 3316, 3381, 4341, 4381. (Academic foundation must include Art 235 and 236).

**Art (All Levels) Specialization:** (48 semester hours) Art 131, 132, 133, 134, 231, 233, 3316, 3355, 3371, 3376, 3381, 4331, 4341, 4381, (plus six hours of advanced electives).

**Biology Specialization:** (24 semester hours) Bio 245, 345, 347, 346 or 441, 444, plus four hours to be selected from: Bio 440, 4402, 442, 443, 445, 446, 447, 449. Bio 141 and 142 must be included in Foundation Core; also Chem 141, 142, or 143, 144 required as Foundation electives.

**Business Education Office Administration (Plan II Composite Field), Specialization:** (54 semester hours) Acc 231, 232, BAC 331, BLW 331, CS 133, Fin 331, MGT 331, 332, 437, MKT 331, OAS 233, 335, 336, 338, 363, 431, 438. (Academic Foundations must include Eco 131, 132, Spc 131, plus three hours from a third group).

**Chemistry Specialization:** (24 semester hours) Chm 141, 142, 333, 343, plus nine additional hours. The nine additional hours must include five advanced hours.

**Computer Science Specialization:** (24 semester hours) CS 131, 132, 3302, 3304 or 4307, 4321, plus nine hours to be selected from: CS 3305, 4302, 4305, 4306, 4308. Foundation electives must include Mth 236, and 237 or Mth 139 and 231 if not taken in required core.

**Dance** See Division of Health, Physical Education and Dance in this bulletin.

**Drama** (See Theater).

**Earth Science Specialization:** (24 semester hours) Geo 141, 142, 237, 336, 4350, 4370, 4380, 418. Physics 137 Astronomy is required in the Foundation Area.

**Economics Specialization:** (24 semester hours) Eco 131, 132, 333, 334, plus 12 semester hours from any 300 or 400 level Eco course.

**English Specialization:** (27 semester hours) Six hours of sophomore literature; nine hours of advanced British Literature; six hours of advanced American Literature; Eng 3321; Eng 334 or 430 or 3312. Foundations programs must include a foreign language through 232 for students who had foreign language in high school and a foreign language through 132 for students who had no foreign language in high school. (When selected as area of greatest interest, program must include a foreign language through 232).

**French Specialization:** (24 semester hours) Fre 131, 132, 231, 232, 330, 337, 338, plus three hours of advanced French.

**General Science (Plan II Composite Field) Specialization:** (50 semester hours) Bio 141, 142, Chm 141 or 143, Chm 142 or 144, Geo 141, 142, Phy 141 or 143, Phy 142 or 144, plus 18 hours of advanced science courses.

**Government Specialization:** (24 semester hours) Gov 131 and at least one advanced Government course from each of five fields: American government; political philosophy; international relations; comparative government; public administration. (See Government Department in this bulletin for listing of courses). Also required: Gov 231 and Gov 232, which are included in core requirements of academic foundations. (When selected as area of greatest interest, program must include a foreign language through 232).

**Health Education Specialization:** (24 semester hours) HEd 131, 133, 234, 237, 331, 337, 434, 437. Foundations program must include Bio 141, 142, 330.

**History Specialization:** (24 semester hours) His 131, 132, six hours advanced American History, six hours advanced World History, plus His 231, 232 which are included in foundations program. (When selected as area of greatest interest program must include History 339 and Foreign Language through 232).

**Home Economics (Vocational) Specialization:** (48 semester hours) See Home Economics section of this bulletin for complete description of certification plan in this area.

**Journalism Communication Specialization:** (24 semester hours) Com 133, 231, 232, 333, 3381, 431, 432, 4382. (When selected as area of greatest interest must include Com 131).

**Life-Earth Science Middle School Specialization:** (24 semester hours) Bio 141, 142; Geo 141, 142; plus eight additional hours, six must be advanced, to be selected from: Bio 240, 245, 345, 346, 347, 444, 446; Geo 237, 336, 4350, 4370, 4380, 418. (Foundation electives must include Phy 137).

**Mathematics Specialization:** (26 semester hours) Mth 148, 149, 233, 234, 3311, 330 or 338, 333 or 435, 335 or 433. (Foundation electives must include CS 131).

**Music (All Levels)** See Music Department in this bulletin.

**Physical Education** See Division of Health, Physical Education and Dance in this Bulletin.

**Physical Science Specialization:** (28-30 semester hours) Chm 141, 142, Phy 141, 142; plus 12 hours to be selected from: Chm 0687 333, 341, 342, 4401, 438; Phy 330, 335, 324, 414 or 415, 416 or 417; or Phy 143, 144; plus six advanced hours to be selected from: Chm 333, 341, 342, 4401, 438; Phy 330, 335, 324, 414 or 415, 416, or 417. (Foundation electives must include Mth 148 and 149 if not taken in required core.)

**Physics Specialization:** (24 semester hours) Phy 141, 142, 448, or Phy 140, 241, 242, 333, 335; plus six hours to be selected from 324, 346, 338, 436, 414, 416, 417. Foundations program must include Mth 148, 149, 241, 331, Chm 141, 142.

**Psychology Specialization:** (24 semester hours) Psy 131, 235, 432, 436, 330 or 435, 332 or 337, 333 or 434, 336, or 433. Foundation electives must include Psy 241.

**Social Studies (Plan II Composite Filed) Specialization:** (48 semester hours)

A. Thirty semester hours: six hours economics, six hours geography, six hours sociology, six hours advanced government, six hours advanced American history.

B. Twelve semester hours: selected from one of the following: Non-U.S. History, advanced government, sociology and economics (at least six hours advanced).

C. Six semester hours: selected from one of the fields not selected in "B" above (must be advanced).

**Sociology Specialization:** (24 semester hours) Soc 131, 132, 438, 439; plus 12 hours six advanced from 231, 339, 230 or 431, 233 or 432; and 332 or 336.

**Spanish Specialization:** (24 semester hours) Spa 131, 132, 231, 232, 330, 335, plus six hours of advanced Spanish.

**Special Education-Generic Specialization:** (24 semester hours) C&I 2301, 2302, 3304, 3305, 4307, 4308, 4309, 4310. (See Special Education section of this bulletin for details).

**Speech Specialization:** (25 semester hours) Spc 233, 222 (two semesters required), 235, 238, 434, The 437, 439 plus three hours selected from 332, 334 or 4371. (When selected as area of greatest interest foundations program must include Spc 1311).

**Theater (Drama) Specialization:** (25 semester hours) The 231, 237, 335, 4311, 4312, 437, 431, plus 210 Workshop (4 semesters required) (When selected as area of greatest interest foundations program must include Spc 1311).

**3. Professional Development (18 semester hours)**

- C&I 331 Foundations of Education
- C&I 332 Educational Psychology
- C&I 338 Curriculum, Materials and Evaluation in the Secondary School
- C&I 438 Classroom Management
- C&I 462 Student Teaching in the Secondary School

**4. Free Electives (six semester hours)**

A minimum of six semester hours are to be chosen by the student as free electives.

## Recommended Program of Study

The secondary education degree and certification requirements are shown in outline form below. Many variations based upon the choice of the two teaching fields, overlaps of teaching field and academic foundation requirements, and plan for use of academic foundation electives and free electives make the outline flexible to meet individual student needs. The outline does comprise a desirable sequence of courses:

First Year	Second Year
Eng Composition..... 6	Eng Literature..... 6
Mth..... 6	Six hours of Sophomore
Science Laboratory..... 8	American History from:
PE Activity (2 semesters)..... 2	231, 232, 233, 234, 235, 236..... 6
First Teaching Field..... 3	Gov 231-232 Introduction to American Government.. 6
Second Teaching Field..... 3	PE Activity (2 semesters)..... 2
Academic Foundations Electives..... 6	First Teaching Field..... 6
	Second Teaching Field..... 6
	Academic Foundations Electives..... 3
34	35
Third Year	Fourth Year
C&I 331 Foundations of Education..... 3	C&I 438 Classroom Management..... 3
C&I 332 Educational Psychology..... 3	C&I 462 Student Teaching in the Secondary School.. 6
C&I 338 Curriculum and Materials..... 3	First Teaching Field (Advanced)..... 6
First Teaching Field (6 hours advanced)..... 9	Second Teaching Field (Advanced)..... 6
Second Teaching Field (6 hours advanced)..... 9	Academic Foundations Electives..... 3
Academic Foundations Electives..... 6	Free Electives..... 6
33	30

## Bachelor of Science Degree in Education — Special Education

Students may secure the Bachelor of Science degree in Special Education-Generic and at the same time certify for a Provisional Certificate—Secondary with a teaching field in Special Education-Generic. The Generic Program will train special educators who can meet the demands of Comprehensive Special Education in the State of Texas. The preparation is broader and more flexible than for those whose training is based on disability categories.



With successful completion of the degree requirements, the student may apply for a Special Education-Generic Certificate, and one additional Provisional Certificate endorsement in a Special Education categorical area. Teachers holding any of these described certificates or endorsements may be assigned to any level of a special education instructional program, pre-school through high school.

Specific information concerning the program may be obtained from the Department of Curriculum and Instruction or from the Advisement Office.

### **Special Education-Generic and Categorical Certificate Requirements**

A student may complete the requirements for Special Education Certification within the Elementary or Secondary Education undergraduate program. It is also possible to obtain certification in conjunction with or following the completion of any other valid Texas teaching certificate.

Certification may be obtained in Special Education-Generic or in the area of mental retardation, physically handicapped, emotionally disturbed, learning disabilities and early childhood/exceptional children.

To obtain certification in one or more areas of Special Education, students follow the same curriculum that is outlined for elementary or secondary teachers along with the selected Special Education sequence.

Select courses in the Generic series are considered acceptable substitutions for categorical needs when the categorical requirements are unavailable. Specific information concerning these substitutions may be obtained from the Department of Curriculum and Instruction or from the Advisement Office.

The Special Education categorical requirements are as follows:

#### **Mental Retardation**

- C&I 2301 Foundations of Special Education
- C&I 3311 Identification and Habilitation of the Mentally Retarded
- C&I 430 Education of the Mentally Retarded
- C&I 431 Psychology of Exceptional Children
- C&I 463 Student Teaching-Special

#### **Physically Handicapped**

- C&I 2301 Foundations of Special Education
- C&I 3312 Education of the Physically Handicapped
- C&I 431 Psychology of Exceptional Children
- C&I 439 Methods and Materials for Learning Disabilities
- C&I 463 Student Teaching-Special

#### **Emotionally Disturbed**

- C&I 2301 Foundations of Special Education
- C&I 3313 Behavioral Characteristics and Learning Procedures of the Emotionally Disturbed
- C&I 4314 Educational Needs of the Emotionally Disturbed
- C&I 4310 Practicum in Instructing the Exceptional Individual
- C&I 463 Student Teaching-Special

#### **Learning Disabilities**

- C&I 2301 Foundations of Special Education
- C&I 3316 Identification of Language and Learning Disorders
- C&I 439 Methods and Materials for Learning Disabilities
- C&I 4310 Practicum in Instructing the Exceptional Individual
- C&I 463 Student Teaching-Special

Note: Six additional semester hours are required for L/LD certification.

#### **Early Childhood/Exceptional Children**

Select three hours from one of the following:

- C&I 2301 Foundations of Special Education
- Edu 5361 Survey of Learning Potentials of Exceptional Children

Select three hours from one of the following:

- C&I 2302 Identification and Characteristics of the Exceptional Individual
- C&I 3304 Educational Needs of the Exceptional Individual
- C&I 4308 Appraisal Processes in Programming for the Exceptional Individual
- C&I 4309 Instruction of the Exceptional Individual

Select six hours from any two of the early childhood or kindergarten courses.

### Multiple Special Education Certification

An additional six to 12 hours from categorical certification programs for mental retardation, physically handicapped, language and/or learning disabilities or emotionally disturbed over and above the hours required for the completion of one area will entitle the student to two or more certificates in Special Education along with certification in any major area in which a student has or is obtaining a valid Texas Teacher Certificate.

Any of the courses may be taken as elective hours by students who do not wish to certify in any of the Special Education areas. Additional information may be obtained from the head of the Department of Curriculum and Instruction.

### Recommended Program of Study

The Bachelor of Science in Education-Special Education degree, with Generic certification requirements, is shown below. Variations to meet individual student needs in the program of study are possible. Specific information may be obtained from the Department of Curriculum and Instruction.

First Year	Second Year
Eng-Composition..... 6	Eng Literature..... 6
Mth..... 6	His Sophomore American History..... 6
Science Laboratory..... 8	Gov 231-232 Introduction to American Government. 6
PE Activity (1 per sem)..... 2	PE Activity (1 per semester)..... 2
Second Teaching Field..... 6	C&I 2301 Foundations of Special Education..... 3
Academic Foundations Electives..... 6	C&I 2302 Identification of the Exceptional Individual..... 3
	Second Teaching Field..... 6
	Academic Foundations Elective..... 3
34	35
Third Year	Fourth Year
C&I 331 Foundations of Education..... 3	C&I 438 Classroom Management..... 3
C&I 332 Educational Psychology..... 3	C&I 4308 Appraisal Processes for Exceptional Individuals..... 3
C&I 338 Curriculum and Materials..... 3	C&I 4309 Instruction of the Exceptional Learner..... 3
C&I 3304 Educational Needs of Exceptional Individual..... 3	C&I 4310 Practicum Instructing Exceptional Individual..... 3
C&I 3305 Rdnng/L.A. Exp Lrn..... 3	C&I 463 Student Teaching-Special..... 6
C&I 4307 Prctm Rdnng/L.A. Exp..... 3	Second Teaching Field (Advanced)..... 6
Second Teaching Field (Advanced)..... 6	Free Electives..... 6
Academic Foundations Elective..... 3	
Free Electives..... 6	
33	30

## Bachelor of Science in Education—Elementary With Special Education—Generic

Students desiring the degree in Elementary Education with Special Education—Generic can do so by following the prescribed Elementary Education plan along with the 24 semester hour Special Education—Generic Area of Specialization inclusion. Specific information may be obtained from either the Department of Curriculum and Instruction or the Advisement Office.

## Associate of Science — Education

The Associate of Science in Education is administered by the Department of Curriculum and Instruction.

Students completing this program will be prepared to function as instructional aides in a variety of public school and other programs directly concerned with the education of

children. The total hours completed in this degree are acceptable toward a Bachelor of Science in Education Degree if that is the student's objective.

## Recommended Program of Study

The Associate of Science Degree in Education is shown below. Variations to meet individual student needs in the program of study are possible. Specific information may be obtained from the Department of Curriculum and Instruction or the Advisement Office.

First Year	Second Year
Eng Composition ..... 6	Eng Literature ..... 3
Mth/Laboratory Science Science ..... 3-4	Mth/Laboratory Science ..... 3-4
His Sophomore American History ..... 6	Gov 231 Introduction to American Government I .... 3
PE Activity (1 per semester) ..... 2	Gov 232 Introduction to American Government II ... 3
Psy 234 or 235 Child/Adolescent Psychology ..... 3	C&I 231 Instructional Media in Classroom ..... 3
C&I 2301 Foundations of Special Education ..... 3	C&I 2302 Identification of Exceptional Individual ..... 3
Free Electives ..... 9	C&I 3305 Rdn/L.A. Excp Lnr ..... 3
	Free Electives ..... 9
32-33	30-31

## Curriculum and Instruction Courses (C&I)

\*Note: To enroll in pre-professional education courses, it is not necessary for students to be admitted to the teacher education program. Pre-professional education courses: C&I 1201, 2310, 231, 232, 233, 2301, 2302

- 1201 **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.
- 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.*
- 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.
- 231 **Instructional Media in the Classroom** 3:3:0  
The course is designed to familiarize students with the many types of instructional media and teaching machines found in modern classrooms, including development and construction of typical teacher-made materials.
- 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.*
- 233 **Reading Skills** 3:3:0  
Analysis of scope and sequence of reading skills with teaching strategies for developmental reading and reading in the content areas.  
*Prerequisite: Sophomore standing.*
- \*NOTE: Students *must* be admitted to the teacher education program in the College of Education to enroll in the following professional education courses. Standards for admission to teacher education are found on page \*\* of this bulletin. In order to be admitted, students must have completed 60 semester hours of coursework, including six hours of 100 level mathematics courses, six hours of 100 level English, excluding English 137, possess a 2.0 or above grade point average, and achieved a passing score on the state's competency entrance examination.
- 331 **Foundations of Education** 3:3:0  
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 **Educational Psychology** 3:3:0  
Principles and psychological problems involved in education with emphasis on learning theories and the practical application of psychological principles to teaching.  
*Prerequisite: Junior standing.*

- 333 **Language Arts in the Elementary School** 3:3:0  
The study and use of materials and techniques in the teaching of oral and written communication.  
*Prerequisite: C&I 331.*
- 334 **Child Development and Evaluation** 3:3:0  
Principles of growth and development. Measurement and evaluation of learning.
- 335 **Arithmetic in the Elementary School** 3:3:0  
A study of the content, materials and methods used in teaching arithmetic.  
*Prerequisite: C&I 331.*
- 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: C&I 233 or C&I 339.*
- 338 **Curriculum, Materials and Evaluation in the Secondary School** 3:3:0  
The structure and organization of the curriculum, materials used and types of evaluation utilized.  
*Prerequisite: C&I 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: C&I 331.*
- 4101, 4301, 4601 **Institute or Workshop in Education 1105** 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.
- 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 **Instruction in 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 **History and Philosophy of the Kindergarten** 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.
- 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, 3 hours from C&I 233, 337, 339.*
- 432 **Educating the Culturally Different** 3:3:0  
Delineates personal characteristics and the affective 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.
- 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 **Classroom Management Elementary** 3:3:0  
A study of problems relating to classroom management and curriculum.  
*Prerequisite: C&I 331 and 332.*

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 in the kindergarten. Three hours in kindergarten classrooms five days per week for eight weeks.
- 437 **Science and Social Studies in the Elementary School** 3:3:0  
Content, methods and materials for teaching science and social studies in the elementary school.  
*Prerequisite: 331 and 332.*
- 438 **Classroom Management Secondary** 3:3:0  
Organization of subject matter, lesson planning, classroom management and general methods of teaching.  
*Prerequisite: C&I 338.*
- 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 C&I 337 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: C&I 438. Three hours in secondary classroom 5 days per week for 16 weeks.*
- 463 **Student Teaching\*Special** 6:A:0  
Special student teaching situations designed for students working toward all-level certificates, special education, kindergarten education and speech and hearing.  
*Prerequisite: C&I 434 or 438. Class: the number of hours equivalent to 15 hours per week for 16 weeks.*
- 465 **Student Teaching in the Elementary School** 6:A:0  
Supervised observation and teaching in the elementary school.  
*Prerequisite: C&I 434. Class: 3 hours in elementary classrooms 5 days per week for 16 weeks.*

## Special Education Courses

- 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.
- 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.
- 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.
- 3311 **Identification and Habilitation of the Mentally Retarded** 3:3:0  
Nature and causes of mental retardation, physical and mental characteristics; the organization and administration of classes; evaluation, integration and adaptation of the program to meet socio-economic needs. Includes experience in observing the behavior of mentally retarded children.
- 3312 **Education of the Physically Handicapped** 3:3:0  
Description and characteristics of children with physical disabilities. Consideration of etiological factors and limitations in regular and special classes, hospital and homebound instruction. Includes experience in observing the behavior of physically handicapped children.
- 3313 **Behavioral Characteristics and Learning Procedures of the Emotionally Disturbed** 3:3:0  
The principles of normal and abnormal child growth and development, including biological and socio-cultural determinants of growth; classification and description of relevant psychological terminology as related to the behavior of the emotionally disturbed.
- 3316 **Identification of Language and Learning Disorders** 3:3:0  
The identification of specific behavioral characteristics that interfere with adequate learning, with special emphasis on techniques to alter behavior. Discussion and presentation of theories of perception and cognition.
- 3317 **Learning Potentials in the Severely and Profoundly Handicapped** 3:3:0  
Determining the degree of modifiability of pupil behaviors. Identifying functional levels, individual project.
- 3318 **Practicum in Learning Potentials** 3:3:0  
Application of assessment procedures to be used with the severely and profoundly handicapped. Emphasis on both formal and informal measures. Formulation of educational programs from assessment. Individual projects.

- 4101, 4201, 4301, 4601 **Institute or Workshop in Special Education** 1-6:1-6:0  
A number of 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.*
- 430 **Education of the Mentally Retarded** 3:3:0  
Problems of the selection, preparation, development and use of curriculum materials. Use of resources, selection of equipment, employment opportunities and a review of recent research. Includes experience in observing and modifying the behavior of mentally retarded children.
- 4306 **Special Topics** 3:3:0  
Significant topics in Special Education. The description of the particular area of study will appear on the printed semester schedule. A student may repeat for a maximum of six semester hours when the area of study is different.
- 4307 **Practicum in Instructional Alternatives in Reading and Language Arts for the Exceptional Learner** 3:A:0  
Practicum experience in the identification and instruction of pupils evidencing disabilities in reading and language arts.  
*Prerequisite: C&I 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** 3:A:0  
Practicum experience with the exceptional learner. Includes identification, interpretation of data, development of instructional goals and implementation of instructional objectives. When experience is with emotionally disturbed it includes at least 54 contact clock hours of work.
- 431 **Psychology of Exceptional Children** 3:3:0  
Social and emotional characteristics and adjustment problems of children and youth who are exceptional.
- 4314 **Educational Needs of the Emotionally Disturbed** 3:3:0  
Programming possibilities based on the characteristics and severity of the individual's emotional problems. Integration of knowledge and competencies to provide an instructional program to meet the needs of emotionally disturbed children.
- 436 **Education of Gifted Children** 3:3:0  
Identification, programs, guidance and administrative structure for gifted children.
- 438 **Instructional Processes with the Severely and Profoundly Handicapped** 3:3:0  
Translating the behaviors of the severely and profoundly handicapped into developmental categories and applied instructional modification processes.
- 439 **Methods and Materials for Learning Disabilities** 3:3:0  
Classroom management and teaching procedures for children with language and/or learning disabilities. Various learning theories are presented.

## Division of Health, Physical Education and Dance

Assistant Dean and Director: Belle M. Holm

101B Women's Gym

Director of Academic Programs: Mildred A. Lowrey

Activity Program Director: Bob L. Frederick

Dance Coordinator: Rebecca O. Hill

Graduate, Health and Physical Education Coordinator: Virginia Raye Holt

Professors: Bell, Crowder, Higgins, Holm, Yates

Associate Professor: Holt, Jolly, Lowrey

Assistant Professors: Frederick, Gremillion, Hill, Park, Payton, Stivers, Worsham

Instructors: Gilligan, Kindl, Newberry, Treadway, Wesbrooks, Zeek

Lecturers: Bell, Brooks, Bussell, Calvert, Crawford, DiCaro, Foster, Ghezzi, Green, Grost, Huffstickler, Ortelee, Ramsey, Senorski

The Division of Health, Physical Education and Dance provides several career options for students. Three teacher education certification programs are offered: dance education, health education and physical education. Two programs of study are available which do not lead to teacher certification: dance education and health education. Undergraduate programs lead to a Bachelor of Science degree in Health Education-Physical Education, 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 four semester program for all university students provides a varied selection of activities which include aquatics, dance and sports. The activity program is designed to enhance the general education objectives of the University.

## Bachelor of Science

### Recommended Programs of Study

#### Dance Education

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 or professional performance.

#### Dance Education Certification Program

First Year	Second Year
Bio 143-144 Human Anat. and Physio ..... 8	Eng Literature ..... 6
Eng Composition ..... 6	His Sophomore American History ..... 6
Mth ..... 6	Gov 231-232 American Government ..... 6
Dan 127 Folk Dance ..... 2	PEPA 2201 Gymnastics Techniques ..... 2
Dan 123 ..... 2	Second Teaching Field ..... 9
Dan 129 or Dan 1252/1253 ..... 2	1324 Dance Elective Ballet or Modern ..... 4
*Elective ..... 3	
Dance Elective Ballet or Modern ..... 4	
33	33
Third Year	Fourth Year
PEPT 231 Anatomy and Physiology ..... 3	C&I 438 Classroom Management ..... 3
C&I 331 Foundations of Education ..... 3	C&I 462 Student Teaching in the Secondary School .. 6
C&I 332 Educational Psychology ..... 3	Dan 336 Choreography and Dance Production ..... 3
C&I 338 Curriculum and Materials ..... 3	Dan 434 Methods and Materials in Dance Education. 3
PEPT 343 Exercise Physiology ..... 3	Dan 439 History and Theory of Dance ..... 3
Dan 3301 Theater Dance Forms or	Second Teaching Field ..... 9
PEPT 332 Management Skills ..... 3	*Elective ..... 6
Dan 335 Principles of Creative Dance ..... 3	
Dan 2221 Ballet Company or	
Dan 2222 Modern Dance Company ..... 2	
Second Teaching Field ..... 6	
Dance Elective Ballet or Modern ..... 4	
33	33
Total 132 hours	

In order to develop and maintain a high technical level, dance education majors are required to take ballet technique or modern dance technique daily each semester.

## Dance Education Non-Certification

First Year	
Bio 143-144 Human Anat Physio .....	8
Dan 1261, 1262, 1263 or 1264 Ballet Technique .....	2
Dan 127 Folk Dance .....	2
Dan 1281, 1282, 1283 or 1284 Modern Dance .....	2
Eng Composition .....	6
Mth .....	6
MEd 131 Elements of Music .....	3
Dan 123 Introduction to Dance .....	2

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Third Year	
PEPT 231 Anatomy .....	3
Art 139, 235 or 236 .....	3
PEPT 343 Exercise Physiology .....	3
Dan 3301 Theatre Dance Forms .....	3
Dan 335 Principles of Creative Dance .....	3
*Electives .....	18

33

Total 128 semester hours

*\*Electives should include the following:*

*A related arts minor program of 18 semester hours approved by counselor.*

*A related elective program of 18 semester hours guided by 1396 counselor.*

*In order to develop and maintain a high technical level dance education majors are required to take ballet technique or modern dance technique daily each semester.*

## Bachelor of Art — Dance Major

Same as the above program except for the completion of the course numbered 232 in a foreign language.

## Health Education

The health education program of study of 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.

## Health Education Certification Program

First Year	
PE Activity .....	2
Bio 143-144 Human Anat and Physio .....	8
hElective .....	3
Eng Composition .....	6
HEd 131 Emergency Care, Safety and Survival .....	3
HEd 133 Personal Health .....	3
Mth .....	6
Academic Foundation Elective .....	3

34

Third Year	
PEPT 231 Anatomy .....	3
C&I 331 Foundations of Education .....	3
C&I 332 Educational Psychology .....	3
C&I 338 Curriculum and Materials .....	3
Elective .....	3
HEd 331 Measurement in Health .....	3
HEd 337 Contemporary Health Problems .....	3
Second Teaching Field .....	12

33

Total 132 semester hours

*\*Academic foundation program required. Electives may not include more than six semester hours (eight in science) overlap with any teaching field.*

Second Year	
Eng Literature .....	6
Gov 231-232 Introduction to American Government .....	6
His Sophomore American History .....	6
*PEPA 2201 Gymnastics Techniques .....	2
Dan 129 Tap Dance .....	2
Dan 2221 Ballet Company .....	2
Dan 2222 Modern Dance Company .....	2
Dan 2223, 1253, 2260 Ensemble, Jazz or Musical Comedy .....	2
*Electives .....	6

34

Fourth Year	
Dan 336 Choreography and Dance Production .....	3
Dan 430 Individual Study in Dance Education or Dan 4301 Workshop in Dance Education .....	3
Dan 434 Methods and Materials in Dance Education .....	3
Dan 439 History and Theory of Dance .....	3
*Electives .....	18

30

Second Year	
PE Activity .....	2
Academic Foundation Electives .....	6
Eng Literature .....	6
Gov 231-232 Introduction to American Government .....	6
HEd 234 Public and Consumer Health .....	3
HEd 237 Health Education in the Secondary School .....	3
His Sophomore American History .....	6

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Fourth Year	
C&I 438 Classroom Management .....	3
C&I 462 Student Teaching in the Secondary School .....	6
Academic Foundation Electives .....	6
HEd 434 Health and Human Ecology .....	3
HEd 437 Health Science and Epidemiology .....	3
Second Teaching Field .....	12

33



## Health Education Non-Certification

First Year	
PE Activity .....	1
Bio 143-144 Human Anat and Physio .....	8
*Elective .....	3
Eng Composition .....	6
Hed 131 Emergency Care, Safety and Survival .....	3
Hed 133 Personal Health .....	3
Mth .....	6
Psy 131 Introduction to Psychology .....	3
PEPA 2208 Aerobic Techniques .....	2
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	35

Second Year	
PE Activity .....	1
Eco 233 Principles and Policies .....	3
*Elective .....	3
Eng Literature .....	6
Gov 231-232 Introduction to American Government .....	6
Hed 234 Public and Consumer Health .....	3
Hed 237 Health Education in the Secondary School .....	3
His Sophomore American History .....	6
PEPA 2206 Water Safety Instruction .....	2
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	33

Third Year	
PEPT 231 Anatomy and Physiology .....	3
*Electives .....	14
Gov 3316 Introduction to Public Administration .....	3
Hed 337 Contemporary Health Problems .....	3
Spc 238 Oral Controversy .....	3
PEPT 343 Exercise Physiology .....	3
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	29

Fourth Year	
*Electives .....	14
Hed 430 Individual Study in Health Education .....	3
Hed 4301 Workshop in Health Education .....	3
Hed 434 Health and Human Ecology .....	3
Hed 437 Health Science and Epidemiology .....	3
Soc 437 Public Opinion .....	3
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	29

Total 126 semester hours

\*Electives should include the following:

A related minor of 18 semester hours approved by counselor.

A related elective program of 16 semester hours guided by counselor.

## Physical Education

The physical education program of study prepares the student for a teaching career in physical education for an advanced degree. A companion program of specialization in elementary physical education is available through the Bachelor of Science in Curriculum and Instruction (see Department of Elementary Education in this bulletin for further information.)

The course of study leading to a baccalaureate degree and teacher certification in physical education encompasses three areas of work: (1) the required block of professional theory courses; (2) the required block of professional education courses; and (3) the required block of professional activity courses.

The required block of professional theory courses are PEPT 132, 231, 332, 334, 335, 343, 436, 443, and six hours to be selected from PEPT 232, 233, 234, 336, 337, 339, 431, and 438. An overall average must be earned in professional theory courses.

The required block of professional education courses are C&I 331, 332, 338, 438, and 462. A Student must be admitted to the College of Education's teacher education program before enrolling in professional education courses. An overall average must be earned in professional education courses.

The required block of professional activity courses are PEPA 129, either 127 or 128, and 2201. Fourteen additional hours must be selected from PEPA 127 or 128, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 3201, 3202, 3303, 3304, 3305, 3306. A minimum of six hours must be selected from the advanced level courses. An overall average must be earned in the physical education professional activity courses.

## Physical Education Certification Program

First Year	
Eng Composition .....	6
Mth 1334 (or above) .....	3
Mth (or laboratory science) .....	3
Bio 143-144 Anat and Physiology .....	8
PEPT 132 Found of Phys. Ed .....	3
PEPA 127 or 128 Folk or Square Dan .....	2
PEPA 129 Swimming .....	2
PEPA Electives .....	4
Elective .....	3
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	34

Second Year	
Eng Literature .....	6
Gov 231-232 American Government .....	6
His American History .....	6
PEPT 231 Functional Anat. & Physio .....	3
PEPT 332 Management Skills .....	3
PEPT Elective .....	3
PEPA 2201 Gymnastics Techniques .....	2
PEPA Electives .....	4
Elective .....	3
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	36

**Third Year**

PEPT 334 Care & Prevention of Sports Injuries.....	3
PEPT 335 Adapted Phys Ed.....	3
PEPT 343 Exercise Physiology.....	4
C&I 331 Foundations of Education.....	3
C&I 332 Education Psychology.....	3
C&I 338 Curriculum and Materials.....	3
PEPA Electives.....	6
Second Teaching Field.....	9

**Fourth Year**

PEPT 436 Measurement & Evaluation.....	3
C&I 438 Classroom Management.....	3
C&I 462 Student Teaching.....	6
PEPT Elective.....	3
Second Teaching Field.....	15

34

34

Total 138 semester hours

## Dance Education Courses (Dan)

123	Introduction to Dance	2:1:2
	A general introduction to dance. Emphasis is on basic terms, movements, concepts, and principles of dance.	
1251, 1252, 1253	Jazz	2:1:2
	Instruction and practice in jazz dance. May be repeated for credit.	
1261, 1262, 1263, 1264	Ballet Technique	2:1:2
	Instruction and practice in ballet technique. Emphasis is placed upon 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, 1284	Modern Dance Technique	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.	
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.	
2223	Dance Ensemble	2:1:5
	The instruction, rehearsal and production of various and divergent dance forms. May be repeated for credit.	
2260	Musical Comedy Dance	2:1:5
	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 by audition or by consent of the instructor to students from all departments who are interested in dance as applied to musical comedy. May be repeated for credit.	
3301	Theater Dance Forms	3:1:2
	Instruction, study and practice of the various dance forms utilized in the theater.	
335	Principles of Creative Dance	3:3:0
	Theory and practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an individual and leading the student to gather self-expression in a dance/movement activity.	
336	Choreography and Dance Production	3:2:1
	Principles of the art of choreography and the study of the various facets utilized in dance production.	
4101	Workshop in Dance Education	1:1:0
	A number of workshops are designed to advance the professional competence of dance teachers. For each, a description of the particular area of study will be indicated. May be repeated for credit when nature of workshop differs from one previously taken.	
4201	Workshop in Dance Education	2:2:0
	A number of workshops are designed to advance the professional competence of dance teacher. For each, a description of the particular area of study will be indicated. May be repeated for credit when nature of workshop differs from one previously taken.	
4301	Workshop in Dance Education	3:3:0
	A number of workshops are designed to advance the professional competence of dance teachers. For each, a description of 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 Dance Education	3:A:0
	Selected problems in Dance Education.	

*Prerequisite: Senior standing and consent of department head. May be repeated for credit. Class by consultation.*

- 434 **Methods and Materials in Dance Education** 3:3:0  
Objectives, methods and techniques of teaching dance: Classroom instruction and field laboratory assignments are included for demonstration and practice.
- 439 **History and Theory of Dance** 3:3:0  
Chronological summary of characteristics and forms of dance from primitive rites to contemporary art forms; origins and evaluation of classic and contemporary dance forms.

## Health Education Courses (HEd)

- 131 **Emergency Care, Safety and Survival** 3:3:0  
Standard American Red Cross First Aid certification course, plus the Public Health Service Office of Civil Defense Medical Self-Help course and Safety Education. Among specific course requirements is one field trip.
- 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 students' skills in using facts to arrive at well informed decisions concerning their own personal health.
- 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.
- 237 **Health Education in the Secondary School** 3:3:0  
Presentation of health media in conjunction with curriculum design and teaching methods. Emphasis placed upon the conceptual approach to teaching health education. Competencies regarding ten selected conceptual areas within the scope of health education are stressed.
- 331 **Measurement and Evaluation in Health Education** 3:3:0  
Designed to provide the student with the understandings and tools needed to evaluate the secondary students' health status and progress within the school health program. Special emphasis placed upon competencies in detection and referral procedures for individual health appraisal. Evaluative measures and resources within schools and communities will be studied.
- 337 **Contemporary Health Problems** 3:3:0  
The course deals with problems associated with current health issues which are related to individual and social adjustment in society. Emphasis will be placed upon social and psychological factors which promote successful interpersonal and family relationships.
- 338 **Health Education in the Elementary School** 3:3:0  
Includes health problems and interests of elementary school children, the promotion of the healthful school environment, understanding of health appraisal of school children and the conceptual approach to curriculum construction.
- 4101 **Workshop in Health Education** 1:1:0  
A number of workshops are designed to advance the professional competence of teachers. 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.
- 4201 **Workshop in Health Education** 2:2:0  
A number of workshops are designed to advance the professional competence of teachers. 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.
- 4301 **Workshop in Health Education** 3:3:0  
A number of workshops are designed to advance the professional competence of teachers. 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 Education** 3:A:0  
Selected problems in health.  
*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.
- 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.

## Physical Education Courses

### Professional Theory Courses (PEPT)

- 132 **Foundations of Physical Education** 3:3:0  
Introduction to elementary and secondary physical education and to specialized related areas. Includes, history, principles and philosophy of physical education; professional qualifications of leadership; and analysis of the place of physical education in modern day society.
- 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.
- 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 **Psychosocial Aspects of Teaching and Coaching** 3:3:0  
Psychological and sociological perspectives of sport; social psychology as it relates to physical activity, social processes, personalities of sports participants, and current literature related to psychosocial aspects of sport.
- 332 **Management Skills in Teaching of Physical Education** 3:3:0  
A study of the organization and administration of programs in physical education and athletics. Understanding and application of management skills.
- 334 **Care and Prevention of Sports Injuries** 3:3:0  
A study of the treatment and prevention of specific sport injuries.
- 335 **Adapted Physical Education** 3:3:0  
A study of the special programs of physical education appropriate to individuals with specific handicaps. Emphasis on developing personalized developmental programs. Field experience required.
- 336 **Physical Education Programs: Secondary Schools** 3:3:0  
A study of curriculum methods and materials for physical education 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 **Physical Education Program: Elementary Schools** 3:3:0  
The theory of teaching physical education activities in the elementary grades. Classroom instruction and field laboratory assignments are included for demonstration and practice.
- 343 **Exercise Physiology** 3:3:0  
A study of the functions of the Physiological systems during and after exercise.  
*Prerequisite: Bio 143-144, PEPT 231.*
- 4101 **Workshop in Physical Education** 1:1:0  
A number of workshops are designed to advance the professional competence of teachers. 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 required course.
- 4201 **Workshop in Physical Education** 2:2:0  
A number of workshops are designed to advance the professional competence of teachers. 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 required course.
- 4301 **Workshop in Physical Education** 3:3:0  
A number of workshops are designed to advance the professional competence of teachers. 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 in Physical Education** 3:A:0  
Selected problems in physical education; 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 Athletic Coaching** 3:3:0  
Anatomical and physiological factors that influence optimal athletic performance.
- 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 teaching of motor skills.

436	<b>Measurement and Evaluation in Physical Education</b>	3:3:0
	A study of practical measurement and evaluation procedures used in physical education. Includes construction of evaluation instruments, experience in test administration and the use of elementary statistical procedures in test score interpretations.	
438	<b>The Teaching of Physical Education</b>	3:3:0
	A study of programs, lesson planning, class organization and control, teaching styles, nature and needs of students and teaching problems.	
129	<b>Swimming Techniques</b>	2:1:2
	Demonstrations, lectures and practice in the basic techniques of swimming and water safety skills. Students who wish to major or seek an emphasis in physical education must demonstrate basic swimming skills.	
2201	<b>Gymnastics Techniques: Tumbling &amp; Gymnastics</b>	2:1:2
	development of tumbling skills with knowledge of movement principles, spotting techniques and class organization. Includes instruction and practice of floor exercise. Emphasis on spotting techniques and teaching methods.	
2202	<b>Gymnastics Techniques: Apparatus</b>	2:1:2
	Instruction and practice on gymnastics apparatus. Emphasis on class organization, spotting techniques and teaching methods.	
	<i>Prerequisite: PEPA 2201</i>	
2203	<b>Combative Techniques</b>	2:1:2
	Lecture, demonstration and practice in combative sports.	
2204	<b>Soccer/Softball Techniques</b>	2:1:2
	Instruction and practice in the field sports of soccer and softball. Emphasis on class organization and teaching methods.	
2205	<b>Aerobic Techniques</b>	2:1:2
	Instruction and practice in aerobic programs. Emphasis on class organization and teaching methods.	
2206	<b>Water Safety Instruction</b>	2:1:2
	The theory and study for teaching water safety techniques and procedures. Completion of course includes American Red Cross certification.	
2207	<b>Archery/Badminton Techniques</b>	2:1:2
	Instruction and practice in the sports of archery and badminton. Emphasis on class organization and teaching methods.	
2208	<b>Tennis Techniques</b>	2:1:2
	Instruction and practice in the sport of tennis. Emphasis on class organization and teaching methods.	
2209	<b>Sports Officiating</b>	2:1:2
	Rules interpretation and techniques of officiating basketball, football and volleyball. The course is designed to develop skill and knowledge required to officiate.	
3201	<b>Baseball: Teaching and Coaching</b>	2:1:2
	Teaching and coaching techniques in baseball including trends in strategies and tactics.	
3202	<b>Basketball: Teaching and Coaching</b>	2:1:2
	Teaching and coaching techniques in basketball including current trends and offensive and defensive systems.	
3203	<b>Football: Teaching and Coaching</b>	2:1:2
	Teaching and coaching techniques in football including fundamental techniques of playing and game theory.	
3204	<b>Tennis: Teaching and Coaching</b>	2:1:2
	Teaching and coaching techniques in tennis including strategies and tactics.	
3205	<b>Track/Field</b>	2:1:2
	Teaching and coaching techniques in track and field. Emphasis on instructional methods and varsity coaching.	
3206	<b>Volleyball: Teaching and Coaching</b>	2:1:2
	Teaching and coaching techniques in volleyball including trends in strategies and tactics.	

## Physical Education General Activity (PEGA)

The activity courses from which four semesters are to be selected for graduation are listed below. The activity requirement is met during both semesters of the freshman and sophomore years. 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 four 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, strength training and field sports designed to provide conditioning and sports skill development.

**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 and volleyball.

### Aquatics Courses (PEGA)

120	Swimming Demonstrations, lectures and practice in the basic techniques of swimming and water safety skills. May be repeated for credit.	2:1:2
121	Swimming and Diving Demonstrations, lectures and practice in the techniques and analysis of selected swimming strokes and dives.	2:1:2
220	Advanced Aquatic Sports 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.	2:1:2
225	Small Craft 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.	2:1:2
226	Lifesaving Development of proficiency in lifesaving. Completion of course includes American Red Cross certification. <i>Prerequisite: Intermediate Swimming Skills.</i>	2:1:2

### Dance Courses (DAN)

See Department of Dance Education in this bulletin for further information.

### Activity Courses (PEGA)

Several types of activities are listed under PEGA 111, 112, 113, 114, 221, 222, 223, or 224. Students should review the activities schedule posted in the Women's or Men's gymnasium prior to each semester for appropriate selection of activities.

Two semester hours of dance classes may be taken as a part of the activity requirement.

111, 112, 113, 114	Activity Physical activities directed toward concepts of fitness and basic movement skills inherent in conditioning and sports. May be repeated for credit.	1:1:2
221, 222, 223, 224	Activity Physical activities directed toward development of lifetime skills in sports. May be repeated for credit.	2:1:2

Students enrolled in physical education activity classes are required to wear regulation costumes suggested by the instructor. These may be purchased at the University Bookstore. 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.

### Athletic Training Specialization

Certification and licensing of athletic trainers is available through meeting the following requirements:

1. Teacher certification with a teaching field in Physical education.
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 Education Certification Requirements

Certification to teach driver education is available as a special designation on an existing Texas Teaching Certificate. Specific course requirements are as follows:

HED 131	Emergency Care, Safety and Survival	3:3:0
	Standard American Red Cross First Aid certification course, plus the Public Health Service Office of Civil Defense Medical Self-Help course and Safety Education. Among specific course requirements is one field trip.	
PEPT 338	Driver Education	3:3:0
	Traffic rules and regulations and the basic facts concerning the cause and prevention of accidents. The course includes behind-the-wheel training in the use of training automobile while instructing students. For teaching professional students how to teach driver education.	
PEPT 416	Student Teaching in Driver Education	1:1:0
	Supervised observation and teaching of driver education in actual class behind-the-wheel training. <i>Prerequisite: HED 131 and PEPT 338.</i>	

## Department of Home Economics

Department Head: Fern Rennebohm

115 Home Economics Building

Professor: Rennebohm

Associate Professors: Davidson, McAdams

Assistant Professors: Anderson, Hinchey, Gates, Scott

Instructor: Elliff, Jones

Adjunct Instructor Suiter

### 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 education, food service and dietetics, family and community service, fashion retailing and merchandising and interior design. Each of these areas of study is described on the following pages.

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.

### Recommended Programs of Study

#### General Home Economics

The General Home Economics Program provides a broad background of preparation for those who do not wish to specialize in a particular area of home economics. This liberal program provides a basis for a minor in a field of the student's choice: communication, art, business or other.

First Year	
Eng Composition .....	6
Laboratory Science or Mth .....	6-8
HEc 131 Food Selection and Preparation .....	3
HEc 132 Clothing Selection and Construction .....	3
HEc 133 Visual Design .....	3
HEc 134 Foundations in Home Economics .....	3
HEc 137 Intimate Relationships: Marriage and the Family .....	3
PE Activity (2 semesters) .....	2
Electives .....	3

Second Year	
Eng Literature .....	3
Eng Lit or App Sub .....	3
Gov 231 Introduction to American Government I .....	3
Gov 232 Introduction to American Government II .....	3
HEc 231 Textiles .....	3
HEc 232 Dress Design .....	3
HEc 235 Meal Management .....	3
Mth .....	3
Laboratory Science .....	4
Elective .....	3
PE Activity (2 semesters) .....	2

**Third Year**

HEc 233 Early Childhood Development..... 3  
 HEc 239 Nutrition..... 3  
 HEc 330 Family and Consumer Finance..... 3  
 HEc 331 Advanced Clothing Construction..... 3  
 HEc 339 Seminar in Family Relations..... 3  
 His Sophomore American History..... 6  
 Electives 300-400 level..... 6  
 Electives Free..... 6

33

**Fourth Year**

HEc 334 Advanced Child Development..... 3  
 HEc 335 Housing and Home Furnishings..... 3  
 HEc 433 Household Equipment..... 3  
 HEc 437 or 4307..... 3  
 HEc 439 Resource Mgt. Systems..... 3  
 Electives..... 6  
 Electives..... 6

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**Home Economics Education**

The Home Economics 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. This program also provides the basis for endorsement in special education and early childhood education.

**First Year**

Eng Composition..... 6  
 Chm or Bio..... 8  
 HEc 131 Food Selection and Preparation..... 3  
 HEc 132 Clothing Selection and Construction..... 3  
 HEc 133 Visual Design..... 3  
 HEc 134 Foundations in Home Economics..... 3  
 HEc 137 Intimate Relationships: Marriage and the Family..... 3  
 Mth..... 3  
 PE Activity (2 semesters)..... 2

34

**Second Year**

Eng Literature..... 6  
 Gov 231 Introduction to American Government I..... 3  
 Gov 232 Introduction to American Government II..... 3  
 HEc 231 Textiles..... 3  
 HEc 232 Dress Design..... 3  
 HEc 233 Early Childhood Development..... 3  
 HEc 235 Meal Management..... 3  
 HEc 239 Nutrition..... 3  
 Mth..... 3  
 Foundation Elective..... 3  
 PE Activity (2 semesters)..... 2

35

**Third Year**

C&I 331 Foundations of Education..... 3  
 C&I 332 Educational Psychology..... 3  
 HEc 330 Family and Consumer Finance..... 3  
 HEc 334 Advanced Child Development..... 3  
 HEc 335 Housing and Home Furnishings..... 3  
 HEc 338 Phil Prin Voc..... 3  
 HEc 339 Seminar in Family and Human Relations..... 3  
 His Sophomore American History..... 6  
 Foundation Elective..... 3  
 Free Elective..... 3

33

**Fourth Year**

HEc 433 Household Equipment..... 3  
 HEc 438 Teaching Methods and Materials..... 3  
 HEc 439 Resource Mgt. Systems..... 3  
 HEc 462 Student Teaching in Home Economics..... 6  
 Foundation Electives..... 6  
 Free Electives..... 9

30

**Food Service and Dietetics**

The Dietetic and Food Service curriculum provides professional preparation which meets the academic requirement of plan IV of the American Dietetic Association. Graduates of this program are eligible for an accredited dietetic internship.

**First Year**

Eng Composition..... 6  
 Bio 143-144 Human Physiology..... 4-8  
 Mth 1334 College Algebra..... 3  
 Eco 233 Principles and Policies..... 3  
 HEc 131 Food Selection and Preparation..... 3  
 HEc 132 Clothing Selection and Construction or HEc 432 Family Clothing..... 3  
 HEc 134 Foundations in Home Economics..... 3  
 HEc 235 Meal Management..... 3  
 PE Activity (2 semesters)..... 2

34

**Second Year**

Eng Literature..... 3  
 Eng 4335 Technical Report Writing..... 3  
 Gov 231 Introduction to American Government I..... 3  
 Gov 232 Introduction to American Government II..... 3  
 Psy 131 Introduction to Psychology..... 3  
 Chm 143 & 144 General..... 8  
 Bio 245 Introductory Microbiology..... 4  
 HEc 137 Intimate Relationships: Marriage and the Family..... 3  
 HEc 239 Nutrition or HEc 138..... 3  
 PE Activity (2 semesters)..... 2

35



**Third Year**

Soc 332 Social Psychology..... 3  
 His Sophomore American History..... 6  
 Acc 231-232 Principles of Accounting ..... 6  
 HEc 330 Family and Consumer Finance..... 3  
 HEc 332 Advanced Nutrition ..... 3  
 HEc 333 Food Chemistry..... 3  
 HEc 336 Institutional Food Service..... 3  
 C&I 332 Educational Psychology..... 3  
 Electives ..... 6

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**Fourth Year**

Mgt 331 Principles of Management..... 3  
 Mgt 333 Personnel Management ..... 3  
 CS 133 Introduction to Computers or  
 Mth 234 Elementary Statistics ..... 3  
 HEc 337 Personal Management..... 3  
 HEc 338 Philosophy & Principles of Vocational  
 Home 2138 Economics..... 3  
 HEc 430 Therapeutic Nutrition ..... 3  
 HEc 433 Household Equipment..... 3  
 Electives ..... 6

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**Family and Community Service**

The Family and Community Service curriculum prepares the student for a career in government and private agencies which serve families. A broad based knowledge of home economics equips the student to aid families in personal relationships, homemaking and consumer skills. A minor in social work including internship in a social agency provides professional training.

**First Year**

Eng Composition..... 6  
 Mth or Laboratory Science..... 6-8  
 HEc 131 Food Selection and Preparation or  
 HEc 132 Clothing Selection..... 3  
 HEc 133 Visual Design..... 3  
 HEc 134 Foundations in Home Economics..... 3  
 HEc 137 Intimate Relationships: Marriage and the  
 Family..... 3  
 Soc 131 Introduction to Sociology..... 3  
 PE Activity (2 semesters)..... 2

29 or 31

**Fourth Year**

Eng Literature ..... 3  
 Eng Lit or App Sub..... 3  
 Mth ..... 3  
 Laboratory Science ..... 4  
 His Sophomore American History..... 6  
 HEc 231 Textiles..... 3  
 HEc 233 Early Childhood Development..... 3  
 HEc 235 Meal Management ..... 3  
 SWk 231 Survey of the Social Welfare Institution ..... 3  
 Psy 131 Introduction to Psychology ..... 3  
 PE Activity (2 semesters)..... 2

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**Third Year**

Gov 231 Introduction to American Government I ..... 3  
 Gov 232 Introduction to American Government II ..... 3  
 HEc 239 Nutrition..... 3  
 HEc 330 Family and Consumer Finance..... 3  
 HEc 334 Advanced Child Development..... 3  
 HEc 339 Seminar in Family and Human Relations ..... 3  
 SWk 331 Social Work Practice I..... 3  
 SWk 333 Social Work Practice II..... 3  
 Soc or Psy 300 or 400 level..... 3  
 Electives ..... 6

33

**Fourth Year**

HEc 432 Family Clothing..... 3  
 HEc 435 Consumer Housing..... 3  
 HEc 439 Resource Mgt. Systems ..... 3  
 SWk 335 Social Work Practice with Target Groups... 3  
 SWk 4321, 4324 ..... 6  
 Soc or Psy 300 or 400 level..... 3  
 HEc 300 or 400 level ..... 6  
 Electives ..... 6

33

**Fashion Retailing and Merchandising**

The Fashion Retailing and Merchandising specialization provides professional training for positions in merchandising, promotion, personnel and fashion coordination. The program includes on job training through a work study program.

**First Year**

Eng Composition..... 6  
 Mth or Laboratory Science..... 6-8  
 HEc 130 Psychology of Clothing..... 3  
 HEc 132 Clothing Selection and Construction..... 3  
 HEc 133 Visual Design..... 3  
 HEc 134 Foundations in Home Economics..... 3  
 HEc 137 Intimate Relationships: Marriage and the  
 Family..... 3  
 Spc 131 Public Speaking ..... 3  
 Art 131 Drawing I ..... 3  
 PE Activity (2 semesters)..... 2

33-35

**Second Year**

Eng Literature ..... 3  
 Laboratory Science ..... 4  
 Mth 1334 ..... 3  
 HEc 231 Textiles..... 3  
 HEc 232 Dress Design..... 3  
 HEc 234 Introduction to Home and Fashion  
 Retailing ..... 3  
 Eco 233 Principles and Policies ..... 3  
 Acc 231 Principles of Accounting..... 3  
 Gov 231 Introduction to American Government I ..... 3  
 Gov 232 Introduction to American Government II ..... 3  
 PE Activity (2 semesters)..... 2

35

**Third Year**

His Sophomore American History ..... 6  
 HEc 235 Meal Management or  
     HEc 131 Food Selection and Preparation or  
     HEc 239 Nutrition ..... 3  
 HEc 330 Family and Consumer Finance ..... 3  
 HEc 331 Advanced Clothing Construction ..... 3  
 HEc 335 Housing and Home Furnishings or  
     HEc 237 Fundamentals of Interior Design ..... 3  
 HEc 337 Personal Management ..... 3  
 HEc 433 Household Equipment ..... 3  
 Mkt 331 Principles of Marketing ..... 3  
 Mkt 333 Marketing Promotion ..... 3  
 Art 3353 Fashion Illustration ..... 3

33

**Fourth Year**

HEc 4317 Internship ..... 6  
 HEc 432 Family Clothing ..... 3  
 HEc 434 Fashion Production ..... 3  
 HEc 436 Home and Fashion Merchandising ..... 3  
 Foreign Language or Spc 331 or 334 ..... 3  
 Mkt 332 Principles of Retailing ..... 3  
 MM 231, 138, or 232 ..... 3  
 Electives ..... 6

30

**Interior Design**

The Interior Design specialization provides professional training for a wide range of design problems extending from personal to public environments.

**First Year**

Eng Composition ..... 6  
 Mth or Laboratory Science ..... 6-8  
 HEc 130 Psychology of Clothing or  
     HEc 132 Clothing Selection and Construction ..... 3  
 HEc 133 Visual Design ..... 3  
 HEc 134 Foundations in Home Economics ..... 3  
 HEc 137 Intimate Relationships: Marriage and the  
     Family ..... 3  
 Art 131 Drawing ..... 3  
 Dft 133 Introduction to Drafting ..... 3  
 PE Activity (2 semesters) ..... 2

32-34

**Second Semester**

Eng Literature ..... 3  
 Gov 231 Introduction to American Government I ..... 3  
 Gov 232 Introduction to American Government II ..... 3  
 HEc 131 Food Selection and Preparation or  
     HEc 239 Nutrition ..... 3  
 HEc 231 Textile ..... 3  
 HEc 237 Fundamentals of Interior Design ..... 3  
 HEc 2307 History of Architecture and Interior  
     Furnishings ..... 3  
 Art 132 Drawing II ..... 3  
 Mth 1334 ..... 3  
 Laboratory Science ..... 4  
 Art 134 Design II ..... 3  
 PE Activity (2 semesters) ..... 2

36

**Third Year**

Art 139, 235 or 236 ..... 3  
 Eco 233 Principles and Policies ..... 3  
 Acc 231 Principles of Accounting ..... 3  
 Spc 331 or 334 or Foreign Language ..... 3  
 HEc 235 Meal Management or  
     HEc 337 Personal Management ..... 3  
 HEc 3305 Components of Interior Design ..... 3  
 HEc 335 Housing and Home Furnishings ..... 3  
 His 233 Sophomore American History ..... 3  
 His 234 Sophomore American History ..... 3  
 Art Elective ..... 3  
 Art Elective (300-400) ..... 3

33

**Fourth Year**

HEc 433 Household Equipment ..... 3  
 HEc 435 Consumer Housing or  
     HEc 330 Consumer Economics ..... 3  
 Resource Mgt. Systems ..... 3  
 HEc 4305 Advanced Interior Design ..... 3  
 HEc 436 Home and Fashion Merchandising ..... 3  
 HEc 4307 Internship in Interior Design ..... 3  
 Mkt 331 Principles of Marketing ..... 3  
 Art 3313 Illustration I ..... 3  
 Art 300/400 level ..... 3  
 Electives ..... 6

33

**Associate of Applied Science Degree in Food Service Management**

This program is designed to prepare students to be effective food service managers in the three basic segments of the food service industry: 1. Commercial food service operations; 2. Health care facilities food service operations; and 3. School food service operations.

**First Year**

**Semester 1**

HEc 131 Food Selection and Preparation ..... 3  
 HEc 1301 Sanitation and Safety in Food Service ..... 3  
 HEc 239 Nutrition ..... 3  
 HEc 1302 Orientation to Food Service Management  
     Systems ..... 3  
 HEc 1303 Food Purchasing, Handling and Storage ..... 3  
 BC 132 Business Communication or  
     ENG 131 Composition ..... 3

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**Semester 2**

HEc 235 Meal Management ..... 3  
 HEc 1304 Food Service Equipment and Layout ..... 3  
 MM 233 Fundamentals of Supervision & Leadership ..... 3  
 HEc 1205 Supervised field Experience I ..... 3  
 TM 134 Business Mathematics ..... 3  
 HEc Marriage and Family Relationships ..... 3

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Second Year

Semester 1	Semester 2
HEc 2301 Quality Food Preparation and Work Simplification ..... 3	HEc 2304 Advanced Quantity Food Preparation and Service ..... 3
HEc 2301 Food Service Financial Management ..... 3	MM 132 Free Enterprise I ..... 3
HEc 2305 Supervised Field Experience II ..... 3	HEc 2415 Supervised Field Experience III ..... 4
HEc 2103 Food Service Management Seminar I ..... 3	MM 232 Human Resources Management ..... 3
JR 231 Job Relations ..... 3	HEc 2103 Food Service Management Seminar II ..... 1

- One of the following courses according to concentration ..... 3
- Conc. 1: HEc 2310 Garde-Manager, HEc 2311 Bakery Training, HEc 2312 Saucier Training
- Conc. 2: HEc 2313 Clinical Nutrition
- Conc. 3: HEc 2314 Child Nutrition and Menu Planning

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- One of the following courses according to concentration ..... 3
- Conc. 1: HEc 2322 Beverage and Dining Operations and Service or MM 133 Principals of Selling
- Conc. 2: HEc 2323 Community Nutrition
- Conc. 3: HEc School Food Programs and Government Commodities

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**Home Economics Courses (HEc)**

1203 Food Purchasing, Handling, and Storage	2:2:0
Study of procedures for purchasing, handling and storing food in quantity.	
1205 Supervised Field Experience I	2:A:0
Minimum of 100 hours supervised field experience in food service; emphasis on food service organization, equipment, and layout.	
130 Psychology 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 Orientation to Food Service Management Systems	3:3:0
Emphasis on the economics of the food service industry: organization, marketing, production, personnel, cost control.	
1304 Food Service Equipment and Layout	3:3:0
Study of selection, use and care of food service equipment: design and layout of food service facility is emphasized.	
131 Food Selection and Preparation	3:2:4
Study of food science principles and their application in the preparation of foods and food products.	
132 Clothing Selection and Construction	3:2:4
A study of clothing construction principles with consideration given to new fabrics. Includes problems and procedures of consumer buying.	
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.	
134 Foundations in Home Economics	3:3:0
An overview of the home economics profession which includes contact with professionals in many varied areas of service.	
137 Intimate Relationships: Marriage and the Family	3:3:0
A study of the individual and the family. Special emphasis on individual development, sexuality, tasks of marriage and parenting skills in relation to the family life cycle.	
138 Principles of Nutrition	3:3:0
Basic principles of nutrition in health and disease. Food selection and quality of nutrients in normal and therapeutic diets related to physiological and psychological needs of individuals considering socio-economic background.	
2103 Food Service Management Seminar	1:1:0
Study of current topics of interest in food service. May be repeated for credit.	
2301 Quantity Food Preparation and Work Simplification	3:2:4
Study of quantity food preparation techniques with emphasis on efficiency and quality control.	

2302	<b>Food Service Financial Management</b>	3:3:0
	Study of principles and procedures in the financial management of food service.	
2304	<b>Advanced Quantity Food Preparation and Service</b>	3:2:4
	Planning and management of quantity food production.	
2305	<b>Supervised Field Experience II</b>	3:A:0
	Minimum of 150 hours supervised field experience in food service; emphasis on food cost control and quantity food production problems.	
2307	<b>History of Architecture and Interior Furnishings</b>	3:3:0
	A study of period design in architecture and interiors from antiquity to the present; integration of the past with the present in understanding contemporary design.	
2310	<b>Garde-Manager</b>	3:2:4
	Principles of preparation of the cold buffet.	
2311	<b>Bakery Training</b>	3:2:4
	Principles of preparation of doughs, breads, pastries, cookies, and cakes.	
2312	<b>Saucier Training</b>	3:2:4
	Principles of preparation of soups, sauces, vegetables, meats, fish, poultry and game.	
2313	<b>Clinical Nutrition</b>	3:3:0
	Study of nutritional needs during illness and for special problems.	
2314	<b>Child Nutrition and Menu Planning</b>	3:3:0
	Study of nutritional needs from birth through adolescence; emphasis on menu planning for groups of children.	
231	<b>Textiles</b>	3:3:0
	A study of the physical and chemical properties of textiles. Emphasis on consumer selection and care of fabrics.	
2322	<b>Beverage and Dining Room Operations and Service</b>	3:2:4
	Emphasis on basic bar operations and dining room service.	
2323	<b>Community Nutrition</b>	3:3:0
	Ethnic, cultural, socioeconomic, and psychological aspects of food; the techniques of evaluating nutritional care systems in the community.	
2324	<b>School Food Programs and Government Commodities</b>	3:2:4
	Administration of school food program; efficient use of government commodities.	
232	<b>Dress Design</b>	3:2:3
	Study principles of fashion design and flat pattern making. Master pattern is developed to design, draft and construct garments. <i>Prerequisite: HEC 132.</i>	
233	<b>Early Childhood Development</b>	3:3:0
	A study of the young child as a basis for understanding the dynamics of child growth and development with emphasis on education for parenthood.	
234	<b>Introduction to Home and Fashion Retailing</b>	3:3:0
	An introductory study of the contemporary aspects of retailing. A broad view of retailing and its diverse operation with emphasis on home and fashion retailing.	
235	<b>Meal Management</b>	3:1:4
	Emphasis on management of time, money and energy in planning menus and purchasing, preparing and serving food. Includes study of laws and regulations that affect food supply.	
237	<b>Fundamentals of Interior Design</b>	3:3:3
	A study of the elements and principles of design as applied to interiors; planning furnishings to meet human needs; introduction to practices and procedures in interior design.	
239	<b>Nutrition</b>	3:3:0
	Study of the nutritional needs of the body and proper selection of foods to meet these needs throughout the life cycle.	
2415	<b>Supervised Field Experience III</b>	4:A:0
	Minimum of 200 hours supervised field experience in food service management.	
330	<b>Family and Consumer Finance</b>	3:3:0
	Consumer principles and rational decision-making skills for coping with consumer issues affecting families and individuals.	
3305	<b>Components of Interior Design</b>	3:2:3
	Study of building construction and materials, applied surfaces, lighting, furnishings and accessories. <i>Prerequisite: HEC 231 and 237.</i>	
331	<b>Advanced Clothing Construction</b>	3:3:2
	A study of specialized techniques in the construction of a tailored garment. Emphasis is given to new technological advancement in fabric.	
332	<b>Advanced Nutrition</b>	3:3:0
	A study of developments in nutrient metabolism and their application. Concepts of biological values, bioenergetic and nutrition in health and disease. <i>Prerequisite: HEC 239.</i>	

- 333 **Food Chemistry** 3:3:0  
An introduction to the properties and metabolism of amino acids, enzymes, hormones, proteins, nucleic acids, carbohydrates, lipids, vitamins and minerals with an emphasis on their metabolic interrelationships in health and disease.  
*Prerequisite: Chm 141 and 142.*
- 334 **Advanced Child Development** 3:2:3  
Parenting skills and Nursery School organization and procedures developed through observation and participation experience with children under five.  
*Prerequisite: HEc 233.*
- 335 **Housing and Home Furnishings** 3:2:3  
A study based on an understanding of historical design in architecture and furniture; application of design principles in choice of home and furnishings to meet individual needs.  
*Prerequisite: HEc 133.*
- 336 **Institutional Food Service** 3:3:2  
A study of institutional equipment, maintenance and organization. Special emphasis on institutional food purchasing, quantity preparation, storage, inventory and cost control.  
*Prerequisite: HEc 131 and 235.*
- 337 **Personal Management** 3:3:0  
Basic management concepts as applied to individual and professional development.
- 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 educational 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, 421, 431 **Special Topics** 1-3:1-3:0  
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
- 430 **Therapeutic Nutrition** 3:2:3  
Biochemical changes in diseases, particularly those of nutritional origin; prevention, and the dietary modifications for their correction. Special emphasis on patient care, rehabilitation and nutritional education.  
*Prerequisite: HEc 332, 333, 336.*
- 4305 **Advanced Interior Design** 3:3:2  
Study of professional procedures and practices in presenting residential and commercial interiors, emphasis on client and designer relations.  
*Prerequisite: Senior standing and consent of the instructor.*
- 4307 **Internship in Interior Design** 3:A:0  
Supervised work experience of at least twenty hours a week for 8 weeks or its equivalent with interior designer, architect; home furnishings firm; speciality shop; research and restoration. Weekly conference and/or seminar will be required.  
*Prerequisite: Senior standing and consent of the instructor. Advanced registration required. May be repeated with varied experiences for a maximum of six hours credit.*
- 4317 **Internship in Fashion Merchandising** 3:A:0  
Supervised work experience of at least 20 hours a week for 8 weeks or its equivalent in sales experience and management training in a retail firm. Weekly conference and/or seminar will be required.  
*Prerequisite: Senior standing and consent of instructor. Advanced registration required. May be repeated with varied experiences for a maximum of 6 hours credit.*
- 432 **Family Clothing** 3:3:0  
A study of cultural, functional and technological aspects of textiles and clothing with emphasis on clothing consumption needs during various stages of the family life cycle.  
*Prerequisite: Junior or senior standing.*

- 4327 **Internship in Family and Children Services** 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.  
*Prerequisite: Senior standing and consent of instructor. Advanced registration required. May be repeated with varied experiences for a maximum of 6 hours credit.*
- 433 **Household Equipment** 3:3:0  
 Selection, use, and care of basic equipment; adapting work centers to individual needs and demonstration techniques.  
*Prerequisite: HEC 335 or 237.*
- 4337 **Advanced Textiles** 3:A:0  
 A study of consumer merchandising aspects of textiles. Includes selecting appropriate fabrics for apparel and home furnishings, testin fabrics, textile specifications, and the textile industry.
- 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.
- 4347 **Internship in Home Economics in Business** 3:A:0  
 Supervised work experience of at least 20 hours a week for 8 weeks or its equivalent in utility company, appliance company or other business. Weekly conference and/or seminar will be required.  
*Prerequisite: Senior standing and consent of instructor. Advanced registration required. May be repeated with varied experiences for a maximum of 6 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 **Internship in Food Service** 3:A:0  
 Supervised work experience of at least 20 hours a week for 8 weeks or its equivalent in hospital, nursing home, school, or commercial food service organizations. Weekly conference and/or seminar will be required.  
*Prerequisite: Senior standing and consent of instructor. Advanced registration required. May be repeated with varied experiences for a maximum of 6 hours credit.*
- 436 **Home and Fashion Merchandising** 3:3:0  
 A study of home furnishings, household equipment and apparel retailing techniques. Includes off-campus experiences through field trips to the home furnishings and fashion markets, manufacturing companies, textile mills, etc.  
*Prerequisite: Senior standing.*
- 4367 **Internship in Home Economics** 3:A:0  
 Supervised work experience of at least 20 hours a week for 8 weeks or its equivalent in a Home Economics related occupation. Weekly conferrence and/or seminar will be required.  
*Prerequisite: Senior standing and consent of instructor. Advanced registration required. May be repeated with varied experiences for a maximum of 6 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 6 hours credit.*
- 438 **Methods and Materials for Teaching Home Economics** 3:3:0  
 Objectives, methods and techniques of teaching vocational home economics in the public school.  
*Prerequisite: C&I 331 and 332; and HEC 338.*
- 439 **Resource Mgt. Systems** 3:2:3  
 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 the secondary school.  
*Prerequisite: HEC 438. Class: 6 hours in an approved vocational program 5 days per week for 8 weeks. Advanced registration required.*



## 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

The College of Engineering offers five undergraduate curricula in engineering, two undergraduate curricula in mathematics, an undergraduate curriculum in computer science and an undergraduate curriculum in Industrial Technology.

Graduate curricula at the master's level are offered in engineering, engineering management, and mathematics together with curricula leading to the Doctor of Engineering degree.

The five undergraduate curricula in engineering are accredited by the Accreditation Board of Engineering and Technology. All seven departments in the College of Engineering have associated with the chapters of their national honor societies which include Tau Beta Pi, Omega Chi Epsilon, Chi Epsilon, Eta Kappa Nu, Alpha Pi Mu, Pi Tau Sigma, and Pi Mu Epsilon.

These curricula are designed to prepare graduating students for responsible positions as they become professional engineers, administrators, investigators, computer scientists, applied mathematicians or teachers and technologists.

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 utilize, 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.

Entering freshmen and new transfer students are considered provisional major. The College of Engineering Advisement Center is responsible for the academic advisement of provisional engineering majors.

Upon enrollment, students choosing mathematics or computer science as their major are admitted directly into their program.

An entering freshman will be assigned a counselor from his or her major department.

The entrance requirements from high school for engineering degree programs in the College of Engineering are:

1.	English .....	4 units
2.	Mathematics	
	Algebra .....	2 units
	Trigonometry .....	1/2 unit
	Natural Sciences	
3.	Chemistry .....	1 unit
	Physics .....	1 unit
4.	Social Sciences .....	2 units
5.	Electives .....	4-1/2 units
	Total.....	15 units

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.

Attention is directed to the section in this bulletin on admission requirements and, in particular, to the requirement that each person desiring to enter the College of Engineering must take the Level I Mathematics Test and chemistry placement exam. 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.



The Department of Mathematics has developed a placement test for entrance into the freshman mathematics courses: Mth 134, 1334, 1335, 148 or 236. All entering students (except those with grades of A or B in high school Algebra I, Algebra II and Trigonometry plus a score of at least 26 on the ACT or at least 590 on the CEEB Mathematics Level I test) are required to take this placement test before entering these courses. These tests are administered during the orientation periods held before registration, and during the regular registration periods. Entrance into all other mathematics courses is determined by the counselor in the student's major department. The Department of Chemistry requires a placement test of all students entering Chm 141. These tests are administered during the orientation periods held before registration, during the summer prior to fall semester registration and during the summer registration periods.

In addition to instruction in the various branches of engineering, the functions of the College of Engineering include research, both on fundamental and applied problems; provision of a center of technical meetings and activities and the management of a cooperative education program.

A Cooperative (Coop) Education Program, in which the student spends alternate terms at work and at study, is offered to qualified students in the College of Engineering. The Cooperative Education Programs in Chemical, Civil, Electrical, Industrial and Mechanical Engineering meet the requirements for basic-level accreditation of the Accreditation Board for Engineering and Technology (ABET). The same standards for Cooperative Education Programs are upheld for industrial technology, mathematics and computer science, although the ABET does not accredit curricula in these areas. To meet the minimum qualifications for the Coop program; a student must have:

1. Completed all the work in the Engineering Common Program for the first year.
2. An over-all grade point average of 2.5, using all grades earned.

To remain in the program, the student must maintain a grade point average equal to or above the minimum qualification level and perform in a manner satisfactory to both the employer and to Lamar.

The period during which a student may participate in the Coop program extends through the regular sophomore and junior years. Coop privileges are not extended to freshman or senior students. By participating in the Coop program throughout the sophomore and junior years of eligibility, a student extends the time required to obtain a degree to five years; but in doing so, gains the equivalent of almost two years experience in industry.

A student may apply for admission to the Coop program through the Office of the Dean of Engineering.

## **Repetition of a Course**

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.

A course in which a student has a grade of "B" or better may not be repeated for credit.

## **Academic Progress — University Standards**

### **Minimum standards for all programs in the College of Engineering-See Additional Standards**

Academic regulations for all students at Lamar University are outlined in the University Bulletin and other official documents. For students in the College of Engineering, additional requirements and regulations are described below.

Students are required to take courses in the sequence shown in the University Bulletin for each degree program.

Students are expected to make acceptable progress toward their degree objectives. Students who fail to make such progress and accumulate grade point deficiencies may be placed on academic probation or suspension from a degree program in the College of Engineering.

All students with any grade point deficiency at the end of any semester shall be placed on academic probation in the degree program in the College of Engineering and will continue on probation as long as a deficiency exists.

All students with a grade point deficiency of 25 or more grade points, either in their major field, or overall, at the end of any semester shall be suspended from all degree programs in the College of Engineering for the following semester. This regulation does not apply to a student at the end of the first semester of residence at Lamar University.

A student returning from academic suspension may return to a major field in the College of Engineering but will be on probation at least the first semester after his/her return.

Students returning from the academic suspension described above are expected to reduce their overall deficiency and any grade point deficiency in their major field every semester of enrollment until the deficiency is eliminated. Should the student fail to reduce either (major or overall) deficiency in any one semester, including summer session, the student will again be suspended from the academic program in the College of Engineering. The first academic suspension shall be for one semester, the second for two successive semesters. Readmission to a program in the College of Engineering after the second suspension is permitted only with written permission of the student's department head and the dean of the College of Engineering.

Students on the academic probation described above may not:

(a) register for more than 13 semester credit hours; (b) submit the degree program for graduation for any program in the College of Engineering; (c) apply for graduation from any program in the College of Engineering; (d) represent the College of Engineering in any extra-curricular activity; (e) hold collegiate office; (f) participate in trips or tours except when required as class projects; (g) participate in the Cooperative Education Program.

It is to be understood that while on probation, the student should primarily take courses in which he or she formerly received "D" or "F", or courses which are background-preparation courses for those in which unsatisfactory grades were previously made.

### **Additional Standards for Engineering Programs (ChE, CE, EE, IE and ME)**

Degree credit is normally allowed only for courses in which a grade of C or better is earned.

Transfer students are required to have a minimum 2.0 GPA on all work attempted before entering the College of Engineering.

### **Admission to a Professional Engineering Program**

Upon the completion of at least 51 semester hours of the Common Program, and with a GPA of 2.25 or more on all required courses, a student will be admitted to an engineering program.

For all engineering programs, it is required that forty-five semester hours (twenty-five semester hours in engineering at the 300 and 400 level) be earned after admission to the professional program.

### **Retention in An Engineering Program**

Engineering students are expected to maintain a GPA of 2.25 to remain in a program. Students who drop below a 2.25 GPA will be placed on departmental 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 faculty advisor for approval by the Department Head.

Students must make up grade points every semester for which they are enrolled until a GPA of 2.25 is achieved. If a student fails to make up grade points as required, he or she will be suspended from the College of Engineering and admission to any program revoked. For readmission, the student would be required to meet the admission standards given above and to satisfy the requirement of earning 45 semester hours after readmission and prior to graduation.

### Changes in Degree Requirements or Standards

The Dean of Engineering may require students to meet the current degree requirements or program standards.

### Electives

It is recommended that every student seek advice from his or her counselor regarding electives. All electives, designated (i.e., technical electives, mathematics electives, etc.) or not, must be approved by the student's department head.

## Common Program — Engineering

### First Year

First Semester	Second Semester
Chm 141 Gen Chem ..... 4	Chm 142 Gen Chem ..... 4
English Composition ..... 3	English Composition ..... 3
Mth 148 Calc & Anal Geom I ..... 4	Mth 149 Calc & Anal Geom II ..... 4
Egr 111 Introduction to Engineering ..... 1	Egr 1221 Introduction to Computers II ..... 2
Egr 114 Egr Graphics I ..... 1	Phy 247 Mechanics and Heat ..... 4
Egr 1121 Introduction to Computers I ..... 1	PE (1) ..... 4
American History ..... 3	
PE (1) ..... 3	
17	17

### Second Year

First Semester	Second Semester
Phy 248 Elec, Mag Light & Sound ..... 4	Egr 233 Circuits ..... 3
Mth 241 Calc & Anal Geom III ..... 4	Egr 231 Dynamics ..... 3
Egr 230 Statics ..... 3	Egr 210 Introduction to Computer Aided Design ..... 1
Egr 234 Thermo ..... 3	Mth 3301 Lin Alg & Diff Equ ..... 3
Egr 215 Egr Graphics II ..... 1	PE (1) ..... 3
Egr 223 Egr Econ ..... 2	Specified by Major (2) ..... 6-7
PE (1) ..... 2	
17	16-17

#### Note:

- (1) All students must meet the University's requirement for Physical Education, Marching Band or ROTC; However, neither the credit hours nor the grade points will count toward an Engineering Degree or GPA requirements.  
 (2) The following courses are specified for each engineering major:

**Chemical Engineering:** Chm 241, ChE 334

**Civil Engineering:** CE 232, Geo 220

**Electrical Engineering:** His 232, EE 217, Gov 231

**Industrial Engineering:** Mth 3370, IE 330

**Mechanical Engineering:** CE 232, Approved Science Electives (3), IE 212

## 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.	
1121	Introduction to Computers I	1:1:0
	Flow charting, digital computers, BASIC, BASIC programming.	
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.	

1221	<b>Introduction to Computers II</b>	2:2:0
	Flow charting, digital computers, FORTRAN, FORTRAN programming. <i>Prerequisite: Egr 1121</i>	
210	<b>Introduction to Computer Aided Design</b>	1:0:3
	An introduction to computer aided design, elementary graphics, display, data input and output. <i>Prerequisite: Mth 241 or concurrent, Egr 1121, Egr 230.</i>	
215	<b>Engineering Graphics II</b>	1:0:3
	Descriptive geometry and special problems approved by the instructor. <i>Prerequisite: Egr 114. Egr 215 may be taken concurrently with 114 if the student has one year of high school drawing and permission of the Engineering Advisement Center.</i>	
223	<b>Engineering Economics</b>	2:3:0
	The time value of economic resources, engineering project investment analysis, effect of taxes on engineering project decisions. <i>Prerequisite: Mth 148, EGR 1121 or EGR 1221.</i>	
230	<b>Statics</b>	3:3:0
	Statics of particles and rigid bodies. Use is made of basic physics, calculus and vector algebra. <i>Prerequisite: Physics 247.</i>	
231	<b>Dynamics</b>	3:3:0
	Kinematics of rigid bodies, kinetics of rigid bodies, work and energy, impulse and momentum. <i>Prerequisite: Egr 230 or equivalent, Mth 241 or concurrent.</i>	
233	<b>Circuits I</b>	3:3:0
	Linear network analysis. Fundamental network laws and methods. Transient response. Sinusoidal steady state analysis and response. <i>Prerequisite: Mth 149, Phy 248, Egr 1221.</i> <i>Corequisite: EE 217, for EE students.</i>	
234	<b>Thermodynamics</b>	3:3:0
	The fundamental laws of thermodynamics; properties of systems solids, gases and liquids and thermodynamic tables. <i>Prerequisite: Phy 247; Phy 248 or concurrent.</i>	
236	<b>Career Development I</b>	3:3:0
	Comprehensive treatment of career-related special assignments and projects, specialization areas under guidance of a faculty member. <i>Prerequisite: Approval of academic dean.</i>	
237	<b>Career Development II</b>	3:3:0
	Comprehensive treatment of career-related special assignments and projects, specialization areas under guidance of a faculty member. <i>Prerequisite: Egr 236.</i>	
330	<b>Energy and Society</b>	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. <i>Prerequisite: Junior standing.</i>	
336	<b>Career Development III</b>	3:3:0
	Comprehensive treatment of career-related special assignments and projects, specialization areas under guidance of a faculty member. <i>Prerequisite: Egr 237.</i>	
337	<b>Career Development IV</b>	3:3:0
	Comprehensive treatment of career-related special assignments and projects, specialization areas under guidance of a faculty member. <i>Prerequisite: Egr 336.</i>	
4101, 4201, 4301, 4401	<b>Special Topics</b>	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	<b>Data Processing</b>	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	<b>Career Development V</b>	3:3:0
	Comprehensive treatment of career-related special assignments and projects, specialization areas under guidance of a faculty member. <i>Prerequisite: Egr 337.</i>	

# Computer Science Department

Department Head: Bobby R. Waldron

106 Liberal Arts Building

Professor: McGuire, Nylin, Read, Waldron

Assistant Professor: Jordan, Koh

Adjunct Instructors: Bilici, Berzsenyi, Harris, Mutchler, Wiemers

## 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, 18 hours in an area of specialization, 18 to 20 hours in mathematics, 6 hours in business, 6 to 8 hours in free electives as well as the general university requirements for a bachelor's degree. The student who completes this four-year (4) academic program is awarded a Bachelor of Science degree in Computer Science and is well prepared to pursue a professional career in his/her area of specialization.

## Departmental Academic Policy

1. No course can be counted towards the Bachelor of Science degree in computer science if a grade of less than a C is made in the course.
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 grade point average falls below 2.0 will be placed on departmental probation and will be suspended from the Computer Science Department, if they do not regain an overall grade point average of 2.0 within one long semester.
4. Students on departmental probation may not take more than 12 academic hours or 13 academic hours provided a laboratory course is included per long semester.

## Computing Laboratories

Students who are majoring or minoring in Computer Science have access to a wide variety of the latest computing hardware and software. The Computer Science Department maintains computing laboratories which include the following.

1. A VAX 11/750, a 32-bit "super mini" computer, system currently equipped with 32 terminals, 3.5 mega-bytes of memory, line-printer, tape drive and 150 mega-bytes of on-line disk storage.

A micro laboratory equipped with 12 micro-computers.

The Computer Science laboratories are totally operated by computer science majors. This includes operations, system software development, planning, procuring and installation of both new hardware and software.

In addition, students in the department have access to the University's computing system which is a medium size mainframe with a large variety of terminals and other peripheral equipment.

## Requirements for becoming a Computer Science Major

First semester students must have a combined score of 850 or greater on the SAT test or equivalent ACT test score.

Students who have already earned academic credit from another college or university must have a combined score of 850 or greater on the SAT test or have at least an overall grade point average of 2.0 on all academic work. Or, must have completed at least 30 academic semester hours with an overall grade point average of 2.0 or better.

## Requirements for a minor in Computer Science

CS 131, CS 132, CS 3301 (PASCAL), CS 3304, CS 4305, plus six (6) additional hours taken from 300/3000 and/or 400/4000 level courses.

## Recommended Program of Study

### First Year

First Semester	
CS 131 Computer Programming I .....	3
English Composition .....	3
Mth 148/Mth 236 .....	3-4
His 231 American History .....	3
Elective .....	3
PE/MLb/MS .....	1
	16-17

Second Semester	
CS 132 Computer Programming II .....	3
English Composition .....	3
Mth 149/Mth 237 .....	3-4
His 232-236 .....	3
Mth 234-Stat .....	3
PE/MS/MLB .....	1
	16-17

### Second Year

First Semester	
CS 3302 Introduction to Computer Systems .....	3
Mth Elective .....	3
Gov 231 .....	3
Lab Science .....	4
English Literature .....	3
PE/MLb/MS .....	1
	17

Second Semester	
CS 3301 Pascal .....	3
Mth 233 Computational Linear Algebra .....	3
Acc 231 .....	3
Gov 232 .....	3
Lab Science .....	4
PE/MS/MLB .....	1
	17

### Third Year

First Semester	
CS 3304 COBOL Programming .....	3
CS 4305 Data Structure & Algorithm Analysis .....	3
CS 331 .....	3
Specialization .....	6
	15

Second Semester	
CS 4302 Operating Systems and Computer Architecture I .....	3
CS 3305 .....	3
Specialization .....	3
English Lit/Speech .....	3
Mth 4316/IE .....	3
	15

### Fourth Year

First Semester	
CS 4307 Organization of Programming Languages .....	3
Specialization .....	6
Electives .....	3 or 5
Elective Business .....	3
	15 or 17

Second Semester	
CS Elective .....	6
CS 4306 .....	3
Specialization .....	3
CS 4309 .....	3
	15

Total Semester Hours 128

#### Comments:

1. An area of specialization is chosen by the student and consists of at least 18 semester credit hours which must be approved by his or her advisor.
2. Students whose area of specialization is Math, Engineering, or Physics must take Mth 148, Mth 149, and Mth 241 as their Math elective.
3. Students whose area of specialization is Engineering must take Phy 247 and Phy 248 as their lab science.
4. A student must take 12 semester credit hours of Computer Science electives which must be approved by his or her advisor with at least 9 semester credit hours in courses numbered 300/3000 or above.

## Computer Science Courses (CS)

- |     |  |       |
|-----|--|-------|
| 130 | Computers and Society<br>Introduction to computers, their history, their uses in society and the consequences of their applications to society and man. Interaction with computers will be accomplished by using the BASIC programming language.   | 3:3:0 |
| 131 | Computer Programming I<br>Introduction to problem solving methods; algorithm development; and how to design, code, debug, and document programs using good programming style and a high level language.  | 3:3:0 |
| 132 | Computer Programming II<br>Continuation of the development of discipline in program design, in style, in debugging and testing; algorithmic analysis; and basic aspects of string processing, recursion, internal search/sort methods and simple data structure.<br><i>Prerequisite:</i> CS 131 and Mth 1334 or concurrent enrollment in MTH 1334. | 3:3:0 |
| 133 | Introduction to Computers<br>Utilization of digital computers using both the BASIC and FORTRAN higher level languages to solve business oriented problems.   | 3:3:0 |

- 230 **RPG Programming** 3:3:0  
An introduction to RPG programming RPG techniques, specifications and routines.  
*Prerequisite: CS 131 or CS 133.*
- 235 **Engineering Computation II** 3:3:0  
Problem theory, flow charting, advanced FORTRAN programming. Solution of advanced problems from various engineering disciplines.  
*Prerequisite: CS 132 and MTH 149 or MTH 237.*
- 3101 **Special Language Topics** 1:1:0  
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.*
- 3201 **Special Language Topics** 2:2:0  
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.*
- 3301 **Special Languages Topics** 3:3:0  
The study of the theory and applications of specialized computer languages and language packages. This course may be repeated for different languages and language packages.  
*Prerequisite: Consent of instructor.*
- 3302 **Introduction to Computer Systems** 3:3:0  
Introduction to computer architecture; basic concepts of computer systems; and machine, assembler level and micro languages.  
*Prerequisite: CS 132.*
- 3304 **COBOL Programming** 3:3:0  
A thorough coverage of the COBOL language and some of its variations is presented in this course. The emphasis is placed on the language, its flexibility and power as well as on applications.  
*Prerequisite: CS 131.*
- 3305 **Introduction to Computer Organization** 3:3:0  
The introduction and the structure of the major hardware components; the mechanics of information transfer and control within a digital computer system; and the fundamentals of logic design.  
*Prerequisite: CS 3302.*
- 331 **Mini-computer Laboratory** 3:1:6  
Study of hardware, software, peripherals and their interfacing of mini-computers in a laboratory environment.  
*Prerequisite: CS 3302 and consent of instructor.*
- 4104, 4201, 4301, 4401 **Special Topics** 1-4:A: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 **Operating Systems and Computer Architecture I** 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 3302 and CS 4305.*
- 4305 **Data Structures and Algorithm Analysis** 3:3:0  
Data structure; analysis and design techniques for nonnumeric algorithms which act on data structures; and utilization of algorithmic analysis and design criteria in the selection of methods for data manipulation.  
*Prerequisite: CS 132.*
- 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 4305 and CS 3304*
- 4307 **Organization 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 3302, 4305.*
- 4308 **Theory of Programming Languages** 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 4307.*

4309	Introduction to Simulation Techniques External properties of multivariate functions with and without constraints, convex functions, linear programming. Computer simulation utilizing logical, numerical and Monte Carlo modeling. The generation, termination and flow of entities through storage and processing facilities. <i>Prerequisite: CS 132, EGR 1221 and Mth 234 or 438.</i>	3:3:0
431	Project Laboratory Senior projects with hardware/software implementation and testing. <i>Prerequisite: CS 4302 and senior standing.</i>	3:2:3
4310	Computer Architecture Representation of information, calculators, storage, addressing, input, output, memory and control. Credit will not be given for both CS 4310 and EE 4310. <i>Prerequisite: EE 4303 or CS 3305. Assembly language desirable.</i>	3:3:0
4311	Information Systems I The analysis, design, installation documentation, maintenance, and modifications of information systems including both hardware and software. <i>Prerequisite: CS 3304, 4305.</i>	3:3:0
4312	Information Systems II A continuation of CS 4311 with special emphasis on using state of the art computer technology in maintenance and modification of information systems.	3:3:0
4321	Micro-Computers Hardware components, languages, operating systems, data file systems, utilities and software development for micro-computers.	

## Department of Chemical Engineering

Program accredited by the Accreditation Board for Engineering and Technology.

Department Head: Jack R. Hopper

100 Lucas Building

Professors: Hopper, Walker, Yaws

Associate Professor: Li

Assistant Professors: Chen, Ho

Adjunct Professor: Shaver

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 judgement 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 Common Program)

#### Third Year

First Semester	
**ChE 333 Thermodynamics	3
ChE/ME 3311 Momentum Transfer	3
*ChE 437 Computer Applications	3
Gov 231 Introduction to American Government	3
Chm 341 Organic	4

Second Semester	
**ChE 332 Heat Transfer	3
**ChE 441 Reaction Kinetics	4
Gov 232 Introduction to American Government II	3
Chm 432 Physical Chm II	3
Chm 342 Organic II	4



## Fourth Year

First Semester	Second Semester
ChE 442 Mass Transfer..... 4	ChE 433 Process Control..... 3
ChE 431 Laboratory I..... 3	American Hist..... 3
ChE 436 Plant Design I..... 3	ChE 434 Plant Design II..... 3
ChE 414 Seminar..... 1	ChE 435 Advanced Analysis..... 3
Elective..... 3	***Chm Elective..... 2
English Literature..... 3	English Lit/Tech Rpt Writ..... 3
17	17
	Total Semester Hours 135

## Notes:

\* These courses are offered during both Fall & Spring Semester.

\*\* These courses are also offered during the Summer Session.

\*\*\* Requires approval of Department Head for 300-400 level chemistry course

## Chemical Engineering Courses (ChE)

3311	Momentum Transfer	3:3:0
	Fluid-flow concepts are presented through the derivation of the basic equations of continuity, energy and momentum. Engineering aspects of flow measurement, pressure-drop calculations and pumping requirements are considered. Same as ME 3311. Che 3311 and ME 3311 may not both be counted for credit.	
	<i>Prerequisite: Egr 234.</i>	
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: ChE 3311, ChE 333</i>	
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: ChE 334, Egr 234.</i>	
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: Egr 234 or concurrent.</i>	
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: Senior standing in Chemical Engineering.</i>	
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: ChE 431.</i>	
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>	
4316	Stagewise Processes	3:3:0
	Advanced study of absorption, extraction, distillation and diffusion, with emphasis on multicomponent mixtures.	
4318	Advanced Distillation	3:3:0
	Principles of multicomponent distillation, including prediction of equilibrium compositions of multicomponent mixture.	
4321	Process Economics	3:3:0
	Calculations involving economic evaluation of processes and equipment. Optimization of plants for least cost or maximum profit.	
4322	Unit Operations	3:3:0
	A study of chemical engineering operations not considered in other courses. An advanced study of one or more selected chemical engineering operations.	
4323	Engineering Materials	3:3:0
	Engineering properties of solid, liquid and gaseous materials. Selection and deterioration of materials for various industrial applications.	

4325	<b>Introduction to Nuclear Engineering</b>	3:3:0
	Interaction of neutrons with matter, nuclear properties of materials, shielding and control of reactors, production of neutrons by nuclear fission, discussion of the various types of reactors and introduction to reactor theory and design.	
433	<b>Process Control</b>	3:3:0
	Selection of equipment to measure and control process variables. Analysis of process response to variations in process parameters. <i>Prerequisite: ChE 441, 442, Mth 3301.</i>	
434	<b>Plant Design II</b>	3:1:6
	A continuation of ChE 436, with emphasis on a major design project. <i>Prerequisite: ChE 436.</i>	
435	<b>Advanced Analysis</b>	3:3:0
	Development of mathematical equations for chemical engineering applications. Solution of ordinary and partial differential equations. <i>Prerequisite: ChE 333,3311,332,441,Mth 3301.</i>	
436	<b>Plant Design I</b>	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	<b>Computer Applications</b>	3:3:0
	Use of the digital computer in performing process calculations. Advanced techniques of FORTRAN programming. <i>Prerequisite: Egr 1121, 1221, ChE 334, ChE 333 or concurrent.</i>	
438	<b>Introductory Petroleum Engineering</b>	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	<b>Reaction Kinetics</b>	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 flow reactors. Application of differential equations to process and reactor design. <i>Prerequisite: ChE 332 or concurrent, ChE 333 or concurrent.</i>	
442	<b>Mass Transfer</b>	4:3:3
	Principles of diffusion. Simultaneous mass, energy and momentum transfer. Analysis of absorption, extraction and distillation processes. <i>Prerequisite: ChE 333, 332.</i>	

## Department of Civil Engineering

Program accredited by the Accreditation Board for Engineering and Technology.

**Department Head:** Luther A. Beale

**2010 Engineering Building**

**Professors:** Beale, Rogers

**Associate Professors:** Grubert, Kumar, Mantz, Morgan

**Assistant Professors:** Daniali, Farren

**Instructor:** Ramel

**Adjunct:** Fischer, Mittra

Civil Engineering is vital to the world's economic, political and social well-being. Modern technological developments are ever widening the vistas of this profession and deepening its scientific roots. These trends are accentuating and creating needs that can be met only by truly professional people whose education has the breadth of a liberal education and the depth of a firm foundation in mathematics and science. This curriculum is designed to meet these requirements. It is strong in the engineering sciences including the natural and earth sciences. It embraces a sound core of mathematics, physics and chemistry. Completion of this curriculum will enable a student to enter the professional field of practice or to pursue an advanced program of study leading to a graduate degree in civil engineering. Areas of activity include soil, structural, hydraulic, sanitary, transportation, surveying and mapping, and power engineering. This curriculum is modern and designed to meet the requirements of the space and atomic age. Options are provided to fit the individual interest of the civil engineering student.

## Bachelor of Science — Civil Engineering

### Additional Degree Requirements:

Candidates for degrees in this program must submit a certificate showing they have passed 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 Common Program)

#### Third Year

First Semester	1	Second Semester	1
CE 312 Research.....	1	CE 212 Route Surveying.....	1
Mth 3370 Statistics.....	3	CE 311 Geodesy and Mapping.....	1
CE 211 Engineering Measurements.....	1	CE 313 Materials Engineering.....	1
CE 213 Experimental Stress Analysis.....	1	CE 336 Hydrology.....	3
CE 331 Environmental Science.....	3	CE 337 Water Utility Systems.....	3
CE 334 Structural Mechanics.....	3	CE 339 Soil Science.....	3
CE 335 Hydraulics I.....	3	CE 430 Indeterminate Structures.....	3
BLW 331 Business Law.....	3	CE 439 Structural Steel Design.....	3
	18		18

#### Fourth Year

First Semester	3	Second Semester	3
Elective-Eco-Princ and Policies.....	3	His. 232 American History.....	3
Gov 231 American Government.....	3	Gov 232 American Government.....	3
CE 434 Soil Engineering.....	3	CE 411 Seminar.....	1
CE 438 Reinforced Concrete Design.....	3	CE 413 Photogrammetry.....	1
CE 210 Civil Engineering Management.....	1	CE 431 Hydraulics II.....	3
CE 310 Cost Estimating and Economy.....	1	Elective Literature.....	3
CE 412 Contracts and Specifications.....	1	Elective CE Design.....	3
Elective Speech.....	3		
	18		17

Total Semester Hours 139

## Civil Engineering Courses (CE)

- |     |  |       |
|-----|--|-------|
| 210 | Civil Engineering Management<br>Role of the civil engineer as a manager and executive director of civil engineering design, project administration and construction. Organizations, policies, objectives, motivation, staffing, budgeting, information systems, computers, equipment, proposals, standard practices, planning and review are topics of discussion. | 1:1:0 |
| 211 | Engineering Measurements<br>Introduction to basic principles of surveying. Use of equipment for measurement of horizontal and vertical distances and angles. Computer utilized in calculations.  | 1:0:3 |
| 212 | Route Surveying<br>Field practice and calculations associated with design and layout of highway curves including vertical and horizontal alignments. Transition spirals. Surveying for-transmission systems. Computer utilized.<br><i>Prerequisite: CE 211.</i>  | 1:0:3 |
| 213 | Experimental Stress Analysis<br>Physical testing of materials. Experimental determination of deformations and stresses using electronic strain gauges. Study of tension members, beams, columns and torsion members. Elastic and inelastic instability considered.<br><i>Prerequisite: CE 232 or concurrent.</i>   | 1:0:3 |
| 232 | Mechanics of Solids<br>Effect of loads on deformable bodies, Uniaxial and biaxial stress-strain relationships. Indeterminate systems. Study of stresses due to axial, torsional and bending effects. Buckling of columns.<br><i>Prerequisite: Egr 230.</i><br><i>Prerequisite: Egr 230.</i>  | 3:3:0 |

- 310 **Cost Estimating and Economy** 1:1:0  
Methods of estimating cost of engineered construction. Optimization of design. economic considerations utilized in engineering.
- 311 **Geodesy and Mapping** 1:0:3  
Advanced surveying principles applied to horizontal and vertical control for mapping.  
*Prerequisite: CE 212.*
- 312 **Research** 1:0:3  
Methods of research including literature searches. Proposal writing for engineering projects. Principles of technical writing and communication.
- 313 **Materials Engineering** 1:0:3  
Study of material properties and suitability for engineering design. Material types and designations covered by standard specifications including ASTM. Reports required based on laboratory and library research.  
*Prerequisite: CE 213.*
- 331 **Environmental Science** 3:2:3  
Introduction to the hydrologic cycle and the chemistry and microbiology of the natural aquatic environment, with emphasis on the physical, chemical and biological aspects of water and waste water systems in relation to man's environment. Laboratory work in the physical, chemical and biological analysis of water and waste water.  
*Prerequisite: Chm 142.*
- 334 **Structural Mechanics** 3:2:3  
Analysis of loadings for bridges and buildings. Dynamic effects of moving loads. Influence lines. Shear and moment diagrams, analysis of indeterminate structures. Introduction to structural design investigation of frames, girders and bents.  
*Prerequisite: CE 232.*
- 335 **Hydraulics** 3:2:3  
Basic principles of fluid flow. Friction and drag studies. Calibration of flow measuring devices. Flow characteristics of open channels and closed conduits Boundary Layer Theory.  
*Prerequisite: Egr 231.*
- 336 **Hydrology** 3:3:0  
Precipitation, surface water, infiltration, sub-surface water. Analysis of rainfall and runoff data. Collection studies. Hydraulics of wells. Net storm rain; peak discharge and floor runoff.  
*Prerequisite: Geo 220, CE 335.*
- 337 **Water Utility Systems** 3:3:0  
General survey of environmental engineering covering water supply and sanitary sewerage systems.  
*Prerequisite: CE 331, CE 335.*
- 339 **Soil Science** 3:2:3  
Basic principles of soil behavior under load. Soil properties and classification. Study of hydraulics as applied to soil mechanics.  
*Prerequisite: Geo 220.*
- 411 **Seminar** 1:0:3  
Discussion of professional topics. Study of technical journals and transactions. Presentation of oral and written reports. Completed thesis required.  
*Prerequisite: CE 312.*
- 412 **Contracts and Specifications** 1:1:0  
Law and practice controlling the writing of engineering contracts and specifications.  
*Prerequisite: BLW 331.*
- 413 **Photogrammetry** 1:0:3  
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 212.*
- 430 **Indeterminate Structures** 3:2:3  
Basic principles of structural analysis and design, based upon requirements of equilibrium and continuity. Classical methods of strain energy, slope deflection and moment distribution used for analysis of frames, trusses and beams. Digital computer methods stressed.  
*Prerequisite: CE 334.*
- 431 **Hydraulics II** 3:2:3  
Continuation of CE 335-Hydraulics emphasizing practical applications of basic fluid mechanics principles in fluid measurement, machinery, closed conduit flow, open channel flow and hydraulic transients.  
*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. Applications to structures supported by shallow and deep substructure and underground structures. Computer techniques are employed.  
*Prerequisite: CE 434.*
- 4312 **Advanced Structural Design** 3:2:3  
 Design principles associated with plastic design of steel, pre-stressed concrete, composite structures, hybrid girders and thin shell concrete. Computer methods of analysis utilized.  
*Prerequisite: CE 430.*
- 433 **Environmental Health Engineering** 3:3:0  
 Problems of public health in rural, urban 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 **Soil Engineering** 3:2:3  
 Compressibility and Strength characteristics. Stress distribution. Shallow and deep foundations, earth pressure theories, retaining walls, stability slopes.  
*Prerequisite: CE 339.*
- 435 **Water and Waste Water Treatment** 3:3:0  
 Principles of physical, chemical and biological processes employed in water and waste water treatment. Design of selected units within water and waste water treatment systems.  
*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.
- 438 **Reinforced Concrete Design** 3:2:3  
 The design of structural concrete members based upon elastic and plastic theory. Study of standard specifications. Introduction to prestressed concrete.  
*Prerequisite: CE 334.*
- 439 **Structural Steel Design** 3:2:3  
 The elastic design of buildings and bridge components according to standard specifications. Plastic design of steel structures.  
*Prerequisite: CE 334.*

## Department of Electrical Engineering

Program accredited by the Accreditation Board for Engineering and Technology.

Department Head: William R. Wakeland

2006 Cherry Building

Professors: Bean, Cooke, Crum, Wakeland, Watt

Associate Professors: Carlin

Assistant Professors: Viviani

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: micro processor 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 are available upon request.

The academic standards of the College of Engineering require that a student satisfy certain criteria for admission to a particular engineering program. In addition, there are four electrical sequences of courses which serve as the foundation for advances courses in electrical

engineering Poor performance in these courses will seriously handicap a student in the advanced courses. Therefore, after admittance to the Electrical Engineering program, an during the course of study, no more than one "unimproved D" is allowed in each of the following sequences of courses in order to continue the sequences or to graduate.

- a. EGR 233, EE 331, 3305, 332
- b. EE 333, 431, 432, 4302
- c. EGR 1121, 1221, EE 3301
- d. EE 217, 318, 319, 3201, 416, 417

A "D" in a course is considered "improved" when the course has been repeated with a "C" or better.

## Bachelor of Science — Electrical Engineering

### Recommended Program of Study

#### First and Second Year

(See Common Program)

#### Third Year

First Semester	
EE 318 Electronics Laboratory .....	1
EE 331 Circuits II.....	3
EE 333 Electronics I.....	3
EE 3301 Logical Analysis .....	3
EE 3305 Logical Design of Switching Systems .....	3
Phy 335 Modern Physics.....	3
	16

Second Semester	
EE 319 Electric Machinery Laboratory.....	1
EE 3201 Digital Laboratory.....	2
EE 332 Circuit Design .....	3
EE 336 Electrical Machinery/Transformers.....	3
EE 337 Electromagnetic Fields I.....	3
EE 431 Electronics II.....	3
*Math Elective .....	2
	17

#### Fourth Year

First Semester	
EE 411 Electrical Engineering Seminar I.....	1
EE 416 Projects Laboratory .....	1
EE 436 Control Engineering .....	3
****EE Electives .....	6
**Hum/Soc Elective .....	3
Spc or Technical Writing.....	3
	17

Second Semester	
EE 412 Electrical Engineering Seminar II.....	1
EE 417 Projects Laboratory.....	1
****EE Electives .....	6
English Literature.....	3
***Elective .....	3
Gov 232 .....	3
	17

Total Semester Hours 135

**Notes:**

- \* From list of approved courses: Mth Elective: 4202, 4203
- \*\* Hum/Soc Elective:
- (a) Any humanities, philosophy, anthropology, literature course
- (b) History 330, 331, 332, 333, 337, 338, any 400 level course
- (c) Sociology 131, 132, 230, 330, 332, 333, 334, 336, 337, 431, 433, 434, 435, 436
- \*\*\* Outside of department, approved by advisor.
- \*\*\*\* Total elective design content must be minimum of 3 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	<b>Digital Laboratory</b>	2:1:3
	Testing and design of digital circuits; introduction to small computer hardware and software. <i>Prerequisite: EE/CS 3305.</i>	
3301	<b>Electrical Analysis</b>	3:3:0
	Application of the digital computer to analysis and design of electrical systems using numerical methods. <i>Prerequisite: Mth 3301, Egr 233, 1221.</i>	
3305	<b>Logical Design of Switching Systems</b>	3:3:0
	Switching algebra. Formulate and manipulate switching functions. Combinational networks. Flip-flops. Sequential networks. <i>Prerequisite: Egr 233.</i>	
331	<b>Circuits II</b>	3:3:0
	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 3301.</i>	
332	<b>Circuit Design</b>	3:3:0
	Circuit design concepts using frequency domain. Pole-zero characterization of system response. Synthesis of passive and active networks. <i>Prerequisite: EE 331.</i>	
333	<b>Electronics I</b>	3:3:0
	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>	
335	<b>Direct Energy Conversion</b>	3:3:0
	An introductory study of direct heat to electrical energy conversion methods such as those employed by thermoelectric devices, thermionic converters, magnetohydrodynamic engines, solar and fuel cells. <i>Prerequisite: Egr 233, 234.</i> <i>Corequisite: EE 333.</i>	
336	<b>Electric Machinery/Transformers</b>	3:3:0
	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>	
337	<b>Electromagnetic Fields I</b>	3:3:0
	Vector analysis, coordinate systems, static electric fields, electric potential, dielectrics, conductors, capacitance, current, static magnetic fields, magnetic materials, magnetic potentials, inductance, electromagnetic forces. Maxwell's equations, time-varying fields, plane waves. <i>Prerequisite: Mth 3301, Phy 248, Egr 233.</i>	
4101	<b>Individual Study</b>	1:1:0
	Independent study under the direction of a faculty member. May be repeated for credit.	
411	<b>Electrical Engineering Seminar I</b>	1:1:0
	A study of the literature of electrical and related engineering fields; preparation and presentation of papers on electrical subjects. <i>Prerequisite: EE 3301.</i> <i>Pre or Corequisite: EE 416.</i>	
412	<b>Electrical Engineering Seminar II</b>	1:1:0
	Preparation, presentation and discussion of material on the engineering profession, the interface between technology and society, and new areas of engineering involvement. <i>Prerequisite: EE 3301.</i> <i>Pre or Corequisite: EE 416.</i>	
416	<b>Projects Laboratory</b>	1:0:3
	Senior projects with hardware implementation and testing. <i>Prerequisite: EE 217, 318, 319, 3201, 431.</i>	
417	<b>Projects Laboratory</b>	1:0:3
	Senior projects with hardware implementation and testing. <i>Prerequisite: EE 416.</i>	
4201	<b>Digital Logic Laboratory</b>	2:1:3
	Laboratory study of digital devices and systems. <i>Prerequisite: EE 3305 or CS 3305.</i>	

4302	<b>Communication Theory</b>	3:3:0
	Principles of modulation; random signal theory and network analysis; basic information theory; analysis of noise. 1 hour design content. <i>Prerequisite: EE 332.</i>	
4304	<b>Advanced Topics</b>	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. <i>Prerequisite: EE 331.</i>	
4305	<b>Digital Systems</b>	3:3:0
	Coding, iterative circuits, special purpose circuits vs. computers, and algorithms. <i>Prerequisite: EE 3305 or CS 3305.</i>	
4306	<b>Minicomputers</b>	3:3:0
	Introduction to assembly language programming and small computer organization. 1 1/2 hours design content. <i>Prerequisite: EE/CS 3305.</i>	
4307	<b>Microcomputers</b>	3:3:0
	Microcomputer organization, peripheral devices, systems software for small computers. 1 1/2 hours design content. <i>Prerequisite: EE 4306 or CS 3302.</i>	
4308	<b>Automata Theory</b>	3:3:0
	Sets, relations, structure of sequential machines, incompletely specified machines, partition methods, state identification and fault detection. 1 hour design content. <i>Prerequisite: EE 3305 or CS 3305.</i>	
4309	<b>Electric Power Systems</b>	3:3:0
	An introduction to electric power system analysis. Transmission line calculations, system operation, short circuit computations. 1 hour design content. <i>Prerequisite: EE 336, 337.</i>	
4310/CS 4310	<b>Computer Architecture</b>	3:3:0
	Representation of information, calculators, storage, addressing, input/output, memory and control. 1 hour design content. <i>Prerequisite: EE 3305 or CS 3305. Assembly language desirable.</i>	
431	<b>Electronics II</b>	3:3:0
	Indepth study of semiconductor device characteristics, BJT's, FET's, SSI logic and linear integrated circuits. <i>Prerequisite: EE 333, 3305.</i>	
4311	<b>Introduction to Nuclear Power</b>	3:3:0
	Nuclear reaction mechanics; radioactivity; neutron reactions; fission products, decay; reactor kinetics, systems; radiation, dose limits, shielding. 1/2 hour design content. <i>Prerequisite: Egr 234 and Phy 335.</i>	
432	<b>Electronics III</b>	3:3:0
	Analog systems with semiconductor elements. Frequency response, feedback and feed forward amplifier design, power electronic devices with regulated power supplies. 2 hours design content. <i>Prerequisite: EE 431.</i>	
436	<b>Control Engineering</b>	3:3:0
	Transfer functions; state variables; time response; frequency response and stability. <i>Prerequisite: EE 332.</i>	
438	<b>Instrumentation</b>	3:3:0
	Unified methods for the design of signal conditioning circuits between sensors and computers. Accepted practice for sensor based microprocessor and minicomputer data acquisition and processing systems. Instrumentation amplifier circuits. 2 hours design content. <i>Prerequisite: EE 333, 3305.</i>	

## Department Of Industrial Engineering

Program accredited by the Accreditation Board for Engineering and Technology.

Department Head: Victor Zaloom

2014 Cherry Building

Professors: Brennan, Gates, Zaloom

Associate Professor: Carruth, Thomas

Assistant Professor: Chu

Laboratory Technician: Costa

The Department of Industrial Engineering offers the Bachelor of Science degree in Industrial Engineering and in Industrial Technology.



## Industrial Engineering

Industrial engineering serves vital functions in today's world and provides a wide range of career opportunities.

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.

Lamar's 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, since certain adjustments in the Industrial Technology program will make it easier to obtain an Industrial Engineering degree.

## Bachelor of Science — Industrial Engineering

### Recommended Program of Study

#### First and Second Year

(See Common Program)

#### Third Year

##### First Semester

IE 212 Production and Fabrication Processes .....	1
IE 335 Accounting for Engineers .....	3
IE 434 Materials Science and Manufacturing Processes .....	3
IE 311 IE Seminar I .....	1
ENG 4335 Technical Report Writing .....	3
His 232 American History II .....	3
Gov 231 Introduction to American Government I .....	3

##### Second Semester

IE 3303 Economic Analysis and Design .....	3
IE 338 Work Study .....	3
IE 432 Statistical Decision Making for Engineers .....	3
English Literature (1) .....	3
Gov 232 Introduction to American Government II .....	3
Hum/Soc Elective (2) .....	3

### Fourth Year

First Semester	
IE 435 Production and Inventory Control .....	3
IE 430 Quality Control .....	3
IE 4313 Human Engineering .....	3
ME 3311 Momentum Transfer .....	3
IE 4315 Organization and Management .....	3
Technical Elective (3).....	3
	18

Second Semester	
IE 411 IE Seminar II .....	1
IE 436 Design of Production Facilities .....	3
IE 437 Operations Research .....	3
IE 431 Computer Applications in IE .....	3
IE 4316 Industrial and Product Safety .....	3
Free Elective (4).....	3
	16

Total Semester Hours 136

**Notes:**

- (1) Any course in Sophomore Literature (Eng 2311—2319) will satisfy this requirement.
- (2) Psychology, Sociology or Economics will be approved.
- (3) An upper level course in Engineering, Math, Business or Computer Science, with approval of advisor.
- (4) Physical Education, Engineering or Mathematics may not be elected. Approval of advisor required.

## Bachelor of Science — Industrial Technology

### Recommended Program of Study

#### First Year

First Semester	
Technology Courses .....	12
Eng 131 Composition(1).....	3
HPE/MLB/MS.....	1 or 2
	16-17

Second Semester	
Technology Courses .....	12
English Composition(1).....	3
HPE/MS.....	1 or 2
	16-17

#### Second Year

First Semester	
Technology Courses .....	12
Technology Course or Elective .....	3
HPE/MLB /MS.....	2
	17

Second Semester	
Technology Courses .....	12
Technology Course or Elective .....	3
HPE/MS.....	2
	17

#### Third Year

First Semester	
Mth 1334 College Algebra .....	3
CS 131 Computer Programming I .....	3
Gov 231 Introduction to American Government I .....	3
IE 3301 Survey of IE .....	3
IE 311 IE Seminar I .....	1
Elective I (3) .....	3
	16

Second Semester	
Mth 1341 Elements of Analysis.....	3
Chm 143 Introductory .....	4
Gov 232 Introduction to American Government II .....	3
English Literature (2) .....	3
IE 438 Work Measurement .....	3
IE 212 Production and Fabrication Processes .....	1
	17

#### Fourth Year

First Semester	
Mth 234 Elementary Statistics .....	1
IE 333 Engineering Economy .....	3
IE 339 Materials Science and Manufacturing Processes .....	3
His 231 American History I .....	3
Elective II (4) .....	3
	15

Second Semester	
His 232 American History II .....	3
IE 430 Survey of Quality Control .....	3
IE 4315 Organization and Management .....	3
IE 335 Accounting for Engineers .....	3
Eng 4335 Technical Report Writing (5).....	3
	15

Total Semester Hours 131-133

**Notes:**

- (1) Any of Eng 132—Eng 135 will satisfy this requirement.
- (2) Any of Eng 2311—Eng 2316 will satisfy this requirement.
- (3) 300 level courses in Psychology, Sociology, Economics or Business, from approved list.
- (4) A 300 or 400 level IE course, from approved list.
- (5) SPC 331 may be substituted with approval of advisor.

*Electronics?*  
*other - 124*

## Industrial Engineering Courses (IE)

212 Production and Fabrication Processes 1:0:3  
Machinery, welding, casting, forming and joining operations on materials of engineering importance. Demonstrations, lectures and 1466 laboratory exercises.

311	<b>IE Seminar I</b> Identifying and analyzing Industrial Engineering problems.	1:1:0
330	<b>Industrial Engineering</b> Introduction to Industrial Engineering, its tools and techniques.	3:3:0
3301	<b>Survey of Industrial Engineering</b> The origins and evolution of Industrial Engineering. The problem solving techniques available and their applications. For non-engineering students.	3:3:0
3303	<b>Economic Analysis and Design</b> Capital budgeting. Depreciation and income taxes. Decisions under uncertainty. <i>Prerequisite: Egr 223, MTH 3370</i>	3:3:0
333	<b>Engineering Economy</b> Economics applied to the evaluation of engineering proposals. The effects of depreciation, taxation and interest rates. <i>Not open to students majoring in engineering.</i> <i>Prerequisite: Mth 1341.</i>	3:3:0
335	<b>Accounting for Engineers</b> Introduction to principles of bookkeeping and cost accounting. Use of cost records to help the engineer/executive make decisions.	3:3:0
338	<b>Work Study</b> Determination of contents, techniques and times required for various tasks. Design of jobs and workplaces for maximum productivity. <i>Prerequisite: Mth 1341 or Mth 234.</i>	3:2:3
339	<b>Manufacturing Materials and Process</b> Functional and economic selection of materials and processes in manufacturing. For non-engineering students. <i>Prerequisite: Chm 143 or equivalent.</i>	3:3:0
411	<b>IE Seminar II</b> Goal-setting, decision-criteria, professional practice, professional registration, research and publication.	1:1:0
430	<b>Quality Assurance and Control</b> Assurance that products perform as intended. Reducing or eliminating defective output. <i>Prerequisite: Mth 234.</i>	3:3:0
4301	<b>Quality Control Applications</b> Quality assurance and the application of statistics to the control of quality. Control charts, acceptance sampling reliability and the role of standards in the quality function. For non-engineering students.	3:3:0
431	<b>Computer Applications in Industrial Engineering</b> Open ended problems in the areas of production control, economic analysis, scheduling, inventory control and other traditional areas of Industrial Engineering.	3:3:0
4313	<b>Human Engineering</b> The engineering design of tools and equipment to meet the physiological needs of human beings.	3:2:3
4315	<b>Organization and Management</b> The theory of organization and management. How the executive functions to achieve the organization's goals.	3:3:0
4316	<b>Industrial and Product Safety</b> Loss control engineering. Mandatory and voluntary standards. Product liability. <i>Prerequisite: Senior standing.</i>	3:3:0
432	<b>Statistical Decision Making for Engineers</b> Analysis of data to help the engineer/executive make decisions. Evaluation of performance claims. <i>Prerequisite: Mth 3370, MTH 3301, Junior standing in engineering</i>	3:3:0
434	<b>Materials Science and Manufacturing processes</b> Basic principles underlying the behavior of engineering materials and methods of processing these materials. <i>Prerequisite: Chm 141 or equivalent</i>	3:3:0
435	<b>Production and Inventory Control</b> Techniques for planning and controlling production and inventories. Modern materials requirements planning. <i>Prerequisite: Mth 3370, IE 330.</i>	3:3:0
436	<b>Design of Production Facilities</b> Use of the principles from other IE courses to determine the location, layout, needed equipment and facilities and other factors in facilities design. <i>Prerequisite: IE 212, 330, 3303, 338, 434.</i>	3:1:6
437	<b>Operations Research</b> An introduction to the construction of mathematical models of organizational systems to aid executives in making decisions. <i>Prerequisite: Mth 3370, IE 333.</i>	3:3:0

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.

# Department of Mechanical Engineering

Program accredited by the Accreditation Board for Engineering and Technology.

Department Head: Otto G. Brown

2008 Cherry Building

Professors: Brown, Martinez, Mei, Young

Associate Professors: Bruyere, Joshi

Assistant Professors: Chern, Nguyen

Adjunct Associate Professor: Boughton

Adjunct Instructors: Adams, Byrd, Craigue

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 Common Program)

#### Third Year

First Semester	Second Semester
ME 330 Kinematics ..... 3	ME 321 Instrumentation and Testing Laboratory ..... 2
ME 3311 Momentum Transfer ..... 3	ME 331 Transport Theory ..... 3
ME 338 Thermodynamics II ..... 3	ME 332 Elements of Mechanical Design I ..... 3
Mth Elective ..... 2	ME 334 Engineering Analysis I ..... 3
American History ..... 3	EE 333 Electronics I ..... 3
English Literature ..... 3	English Literature ..... 3
<u>17</u>	<u>17</u>

#### Fourth Year

First Semester	Second Semester
ME 421 Engineering Systems Design ..... 2	ME 4316 Engineering Design Project ..... 3
ME 4313 Thermal Systems Design ..... 3	ME 4317 Engineering Analysis II ..... 3
ME 4319 Materials Science ..... 3	ME Elective ..... 3
ME 4323 Elements of Mechanical Design II ..... 3	Gov 232 Introduction to American Government II ... 3
*ME Elective ..... 3	Free Elective ..... 3
Gov 231 Introduction to American Government I .... 3	ME 411 Seminar ..... 1
<u>17</u>	<u>16</u>

Total Semester Hours 135

\*At least 3 hours must be an ME design elective course.

## Mechanical Engineering Courses (ME)

- 321 Instrumentation and Testing Laboratory** 2:1:3  
 Various instruments with mechanical engineering applications are studied and tests are made. Emphasis is on pressure, temperature, speed, power, torque, frequency and various types of flow measurements.  
*Prerequisite: ME 3311 and ME 338 or parallel with both.*
- 330 Kinematics** 3:3:0  
 Analysis of mechanisms. Centros, velocities and accelerations in plane mechanisms; rolling and sliding in belts, chains and cams; gears in plain and epicyclic trains.  
*Prerequisite: Egr 231 and CE 232 or parallel.*
- 331 Transport Theory** 3:3:0  
 Theory of conduction and potential flow, radiation and convection with engineering techniques and applications.  
*Prerequisite: Mth 3301 and ME 3311.*
- 3311 Momentum Transfer** 3:3:0  
 Fluid-flow concepts are presented through the derivation of the basic equations of continuity, energy and momentum. Engineering aspects of flow measurement, pressure-drop calculations and pumping requirements are considered.  
*Prerequisite: Egr 234, 231, CE 232 and Mth 3301.*
- 332 Elements of Mechanical Design I** 3:2:3  
 The design of machine components including shafting, columns, springs and frames with regard to static and dynamic forces employing analytical and graphical analysis.  
*Prerequisite: CE 232 and ME 330.*
- 334 Engineering Analysis I** 3:3:0  
 Methods of analysis of engineering situations requiring application of fundamentals of engineering science and mathematics are studied. Mathematical methods of engineering analysis are presented and applied.  
*Prerequisite: ME 3311.*
- 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 3301 and Egr 234.*
- 411 Seminar** 1:1:0  
 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 Engineering Systems Design** 2:1:3  
 The design techniques of integrated component systems are treated. The student is required to utilize these techniques by designing such a system.  
*Prerequisite: 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 ME 334.*
- 4312 Gas Dynamics** 3:3:0  
 Fundamentals of one-dimensional compressible flow. An introduction to multidimensional wave phenomena with various applications.  
*Prerequisite: ME 4313 or parallel.*
- 4313 Thermal Systems Design** 3:3:0  
 Heat transfer study with emphasis on heat exchanger design, optimization of energy exchange, economics and design feasibility.  
*Prerequisite: 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 parallel.*
- 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; ME 4313 in parallel.*
- 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, 4313.*

- 4317 **Engineering Analysis II** 3:3:0  
A continuation 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  
Properties of materials. Aspects of elastic behavior as well as stress and strain measurement, yield phenomena, tensions, torsion, hardness and assorted effects and considered. Criteria for selected proper engineering materials are discussed.  
*Prerequisite: CE 232.*
- 432 **Mechanical Vibrations** 3:3:0  
The theory of vibrating systems, including kinematics or 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 334 and senior standing.*
- 4320 **Propulsion Systems** 3:3:0  
Space mission parameters. Basic elements of propulsion systems and propulsion systems parameters. Selected problems of thermochemical systems and electro-magneto-thermal systems.  
*Prerequisite: ME 331 and 338.*
- 4321 **Space Dynamics** 3:3:0  
An analytical treatment of the mechanics of orbital motion, with applications to the trajectories of the astronomical objects and space vehicles.  
*Prerequisite: ME 3311.*
- 4323 **Elements of Mechanical Design II** 3:2:3  
The design of power transmission machinery. Completed design of some assigned machine.  
*Prerequisite: 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 notation is used.  
*Prerequisite: ME 3311 and ME 331 or parallel.*
- 434 **Internal Combustion Engines** 3:2:3  
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.*
- 439 **Advanced Strength of Materials** 3:3:0  
Introduction to the fundamental theory of three-dimensional elasticity. Specialization of the general theory to provide the theory of plane stress and plane strain. Determination of stress and deflections in a beam on elastic foundations, plates, shells and cylinders. Study of torsion of bars and cylinders.  
*Prerequisite: CE 232 and ME 334.*

## Department of Mathematics

Department Head: George D. Poole

205 Lucas Building

Director of Mathematics Instruction: Sam M. Wood, Jr.

Professors: Berzenyi, Crim, Poole, Stark, Vanzant

Professor Emeritus: Bell (1979), Latimer (1979)

Associate Professors: Baj, Bell, Brookner, Brenizer, Dingle, Laidacker, Price, Wood

Assistant Professors: Green, Harvill Kohli, Lauffer, Lee, Matheson, Parrish, Read, Saet, Thames

Visiting Professors: Baker

Instructor: Mades

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 to 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 and computer science club provide students with the opportunity to work with fellow mathematics and computer science majors in a number of activities.

The department offers the following degrees:

Bachelor of Arts in Mathematics

Bachelor of Science in Mathematics

Bachelor of Science in Mathematical Sciences

Bachelor of Science in Mathematical Sciences Statistical Concentration X

Master of Science

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 greater depth in analytical reasoning, abstraction and structure. Students graduating with these degrees normally pursue graduate programs in Mathematics or allied fields such as Physics, Computer Science, Statistics or enter into teaching.

Programs in the mathematical sciences prepare students for careers in a variety of fields. In addition to teaching positions in elementary, middle and senior high schools, students can prepare for positions in industry, business and government by electing options in applied mathematics, in computer science or by pursuing the regular mathematics major with electives chosen in statistics, computer science or business.

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 the language of mathematics. A student majoring in science or engineering at a 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 1819 many years been an important mathematical applications tool in a variety of means such as 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 in 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 Test

The Mathematics Department has developed a Placement Test for entrance into freshman mathematics courses. This test will assist the department in placing a student in the course for which the student's chances for successful completion are best. The test will be given during the summer orientation and regular registration periods. For information concerning the test, contact the Mathematics Department, Box 10047, Lamar University, Beaumont, Texas, 77710. All entering students except those with grades of A or B in high school Algebra I, Algebra II and Trigonometry plus a score greater than 26 on the ACT or

at least 590 on the Level I CEEB Mathelatics test are required to take the placement test before entering Mth 1312, 134, 1334, 1335, 148 or 236. Entrance into all other mathematics courses is determined by the advisor in the student's major department.

### Teacher Certification Mathematics

Those wishing to secure the Bachelor of Arts or the Bachelor of Science in Mathematics or the Bachelor of Science in Mathematical Sciences and at the same time certify for a provisional certificate secondary school certificate with a teaching field in mathematics must include in their degree program the following:

1. 18 hours of professional education including Edu 331, 332, 1860 338, 438 and 462.
2. Minor to be expanded to include an approved 24 hour teaching field other than mathematics (Consult this bulletin—College of Education).
3. CS 131 and Mth 148, 149, 233, 234.
4. 12 hours of advanced mathematics to include Mth 330 or 338, 3311, 333 or 435, 335 or 433.
5. Approved electives sufficient to make a total of 129 semester hours.

Elementary certification requires the Mathematics sequence 135, 136, 3313. This can be expanded into either an 18 or 24 semester hour specialization in elementary mathematics. For specific courses, contact the Department of Mathematics.

### Recommended Programs of Study

#### Bachelor of Arts — Mathematics Major (Minimum) 126 hours

1. General requirements: (Minimum) 48 hours
  - a. Eng—Composition—six semester hours
  - b. Eng—Literature—six semester hours
  - c. Laboratory science—eight semester hours (same science)\*
  - d. Gov. 231, 232
  - e. History—Soph Am His—six semester hours
  - f. Foreign Language through 232 (same language)
  - g. PE (Activity)—four semester hours (minimum)
2. Major requirements: 36 hours
  - a. Mth 148, 149, 241—Calculus and Analytic Geometry
  - b. Mth 233—Computational Linear Algebra
  - c. Mth Electives—21 semester hours (15 of which must be 300/3000 level or above including Mth 3311) approved by the department
3. Minor requirements (to be approved by the department) 18 hours
4. Electives (to be approved by the department) 24 hours

\*To be chosen from Phy 140/241, or 141/142 Chem, Bio or Geo.

#### Bachelor of Arts — Standard Curriculum

##### First Year

First Semester	Second Semester
Mth 148 Calculus and Analytic Geometry I .....	Mth 149 Calculus and Analytic Geometry II .....
English Composition .....	English Composition .....
Science .....	Science .....
Elective .....	Elective .....
PE/MLb 124/MS .....	PE/MS .....
15	15



**Second Year**

First Semester	
Mth 241 Calculus and Analytic Geometry III .....	4
English Literature.....	3
His Soph American History .....	3
Foreign Language 131 .....	3
Mth 233 Computational Linear Algebra .....	3
PE Activity .....	1
	17

Second Semester	
Eng Literature (1).....	3
His Soph American History .....	3
Foreign Language 132 .....	3
Mth Elective .....	6
PE Activity .....	1
	16

**Third Year**

First Semester	
Foreign Language 231 .....	3
Gov 231 Introduction to American Government I .....	3
Mth Advanced Elective .....	6
Minor .....	3
Elective (2) .....	3
	18

Second Semester	
Foreign Language 232 .....	3
Gov 232 Introduction to American Government II .....	3
Mth Advanced Elective .....	3
Minor .....	3
Elective.....	3
	15

**Fourth Year**

First Semester	
Mth Advanced Elective .....	3
Minor .....	6
Elective.....	6
	15

Second Semester	
Mth Advanced Elective.....	3
Minor .....	6
Elective.....	6
	15

**Notes:**

- (1) In place of English literature the student may choose a course in Speech, Technical Report Writing or Foreign Language.
- (2) Six hours of electives must be chosen outside the major field.

**Bachelor of Science — Mathematics Major**  
**(Minimum) 126 hours**

1. **General requirements:** **(Minimum) 33 hours**
  - a. Same as general requirements for Bachelor of Arts except there is no foreign language requirement.
2. **Major requirements:** **48 hours**
  - a. Mth 148, 149, 241
  - b. Mth 233, Mth 238
  - c. Mth Electives—24 semester hours—21 of which must be 300/3000 level or above including Mth 3311
  - d. CS 131, CS 132
3. **Professional Electives:** **27 hours**
  - a. Courses (to be approved by the department) in the Colleges of Engineering, Science or Business.
4. **Electives:** **18 hours**
  - a. At least six hours (to be approved by the department) must be from the Humanities and Social Sciences.

**Bachelor of Science—Standard Curriculum**

**First Year**

First Semester	
Eng Composition.....	3
Mth 148 Calculus and Analytic Geometry I .....	4
Science .....	4
Elective.....	3
PE/MLb 124/MS.....	1
	15

Second Semester	
Eng Composition.....	3
Mth 149 Calculus and Analytic Geometry II .....	4
Science .....	4
CS 131 Computer Programming I .....	3
PE/MS.....	1
	15

## Second Year

First Semester	
Mth 241 Calculus and Analytic Geometry III .....	4
Mth 233 Computational Linear Algebra .....	3
English Literature.....	3
His Soph American History .....	3
CS 132 Computer Programming II .....	3
PE Activity .....	1
	17

Second Semester	
Mth 238 Introduction to Applied Mathematics.....	3
Professional Electives.....	6
Mth Elective .....	3
His Soph American History .....	3
PE Activity .....	1
	16

## Third Year

First Semester	
Gov 231 Introduction to American Government I ....	3
Professional Elective.....	3
English Literature (1) .....	3
Mth Advanced Elective.....	6
	15

Second Semester	
Gov 232 Introduction to American Government II ...	3
Professional Elective.....	6
Elective (2) .....	3
hMth Advanced Elective .....	6
	18

## Fourth Year

First Semester	
Professional Elective.....	6
Elective (2) .....	3
Mth Elective .....	6
	15

Second Semester	
Professional Elective.....	6
Elective.....	6
Mth Elective .....	3
	15

Notes:(1) In place of English literature the student may choose a course in Speech, Technical Report Writing or Foreign Language.  
(2)Six hours of electives must be chosen outside the major field.

## Bachelor of Science — Mathematical Sciences

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. The term mathematical sciences indicates the scope and breadth of this program since it includes subdisciplines such as applied mathematics, computer science and statistics.

### Structure of Degree

To insure the student is thoroughly trained in the important areas of mathematical sciences that will arise in his/her later studies, the first two years of the program are tightly structured. The requirements here are referred to as the Basic Program.

Basic Program	
Calculus .....	10 or 12
Physics (Phy 247 and Phy 248).....	8
Chemistry, Biology or Geology 141.....	4
Mth 233 Computational Linear Algebra .....	3
Mth 331 Differential Equations .....	3
CS 131 and 132 Computer Science .....	6
Mth 3370 & 437 Probability and Statistics .....	6
Mth 4315 Numerical Analysis .....	3
Mth 238 Introduction to Applied Math .....	3
Mth 3321 Finite Mathematics .....	3
Mth 3324 Practicum .....	3
	52 or 54

University Requirements	
English Composition and Literature.....	12
Sophomore History.....	6
PE/MLb/MS (minimum) .....	4
Gov 231, 232 Sophomore Government.....	6
Electives (chosen outside of the major college) .....	6
	34

### Tracks

In the last two years the student is given the opportunity to select one of a number of different options or TRACKS. As opposed to a minor in a particular subject, a track, by definition, represents the interdisciplinary aspect of this degree. It consists of at least 20 credit hours.

Some examples of these tracks are given below. Other tracks may be designed in consultation with a student's counselor to meet the special needs of an individual student. More details also are given in departmental brochures.

**Computer Science**

CS 3302 Introduction to Computer Systems (CS 132)  
 CS 4305 Data Structure and Algorithm Analysis (IE 3302)  
 CS 4307 Organization of Programming Languages  
 CS 4306 Techniques of Information Processing and Retrieval (IE 3302 and CS 4305)  
 IE 437 Operations Research  
 Mth 3322 Computability  
 Mth 4325 Finite Element Analysis  
 Additional courses to complete a track will be chosen with the assistance of a student's counselor.

**Administration and Management Science**

**Required Courses:**  
 IE 4315 Organization and Management  
 Mgt 432 Organizational Behavior and Administration  
 ACC 231 Principles of Accounting  
 ECO 233 Principles and Policies  
 Mkt 331 Principles of Marketing (Eco 232 or 233)  
**Electives:**  
 In addition to the 5 required courses above, the student will choose 2 or more from the following set of courses.  
 Eco 334 Macro Economics  
 BLW 331 Business Law  
 Eco 4315 Government and Business (6 hours of Eco)  
 Acc 334 Cost Accounting (Acc 232) or  
 IE 335 Accounting for Engineers  
 A course in the Department of Sociology such as Soc 332 Social Psychology or substitute approved for the individual's program by the head of the student's department.

**Civil Engineering**

**Required Courses:**  
 CE 211 Engineering Measurements  
 Egr 231 Dynamics (Egr 230, Mth 149)  
 CE 232 Mechanics of Solids (Egr 230, Egr 231)  
**Structures Option:**  
 Geo 141 Physical Geology  
 CE 334 Structural Mechanics (CE 232)  
 CE 430 Indeterminate Structures (CE 334)  
 CE 438 Reinforced Concrete Design (CE 334)  
 CE 439 Structural-Steel Design (CE 334)  
 Options in Environmental Science and Soil Engineering have also been developed. Interested students should contact the Department Head of Mathematics.

**Pre-Medicine**

Bio 142 General Biology II (after having chosen Bio 141 in core)/Chm 141-142 General Chemistry  
 Chm: 341-342 Organic Chemistry (Chm 142)  
 Biology/Chemistry Electives (Two courses should be selected from the following list to complete the requirements for a TRACK. Additional courses may be chosen from this list to complete elective requirements in the mathematical sciences curriculum.  
 Bio 245 Microbiology (Bio 141/142)  
 Bio 347 Genetics (Bio 141/142)  
 Bio 344 Advanced Physiology (Chm 341/342)  
 Bio 341 Histology (Bio 141/142 and 240 or 243/244)  
 Chm 241 Quantitative Analysis (Chm 142)  
 Chm 441 Biochemistry I (Chm 241 and 342)

**Scientific Computation**

CS 4305 Data Structure and Algorithm Analysis (IE 3302)  
 EE 331 Circuits II (Circuits I) or  
 EE 3305 Logical Design of Switching Systems  
 CS 3302 Introduction to Computer Systems  
 CS 4310 Computer Architecture  
 ME 3311 Momentum Transfer (Egr 234)  
 Egr 231 Dynamics (Egr 230)  
 EE 3301 Electrical Analysis (Mth 241, Egr 233)

**Control Systems**

Egr 233 Circuits I (Mth 149)  
 EE 332 Circuit Design (EE 331)  
 EE 436 Control Engineering (EE 332)  
 CS 3302 Introduction to Computer Systems  
 CS 4302 Operating Systems and Computer Architecture I  
 ME 3311 Momentum Transfer (Egr 234)

**Mechanical Engineering**

**Required Courses:**  
 Egr 230 Statics  
 Egr 233 Circuits I (Phy 246, Mth 149)Egr 234 Thermodynamics (Phy 246, Mth 241)  
**Mechanics Option:**  
 Egr 231 Dynamics (Egr 230, Mth 149)  
 CE 232 Mechanics of Solids (Egr 230, Egr 231)  
 ME 4319 Materials Science (CE 232)  
 Options in Energy and Engineering Science have also been developed. Interested students should contact the Department Head of Mathematics.

**Data and Systems Analysis**

This track is designed for students without specialized interest. The core of this track is operations research, in which the student is introduced to important techniques for solving problems which arise in industry. The track includes advanced courses in statistics in which computing plays an important role. This sequence is highly recommended for students interested in graduate work in Management Science.  
 IE 437 Operations Research (Mth 234, IE 333)  
 IE 430 Quality Assurance and Control (Mth 234)  
 IE 432 Statistical Decision Making for Engineers (Mth 234)  
 IE 335 Accounting for Engineers  
 CS 4306 Techniques of Information Processing and Retrieval (CS 4305)  
 Mth 3370 Introduction to the Theory of Statistical Inference (Mth 241)

**Statistics**

Mth 3370 Introduction to the Theory of Statistical Inference  
 Mth 4316 Mathematical Programming  
 Mth 437 Mathematical Theory of Probability  
 Mth 4317 Modern Developments in Statistical Methodology  
 Mth 4321 Least Squares and Regression Analysis  
 Mth 4322 Analysis of Variance Utilize professional and other electives to establish a minor in a discipline like Biology, Geology, Chemistry, Engineering, Business, etc.

**Other Tracks**

Tracks may also be designed in the following areas: Electrical Engineering, Chemical Engineering, Industrial Engineering, Pre-Law, Actuarial Science.

Interested students should contact the Department Head of Mathematics.

**Bachelor of Science — Mathematical Sciences**

**General Degree Requirements**

University requirements .....	28 credits
Program .....	51 or 54
Mathematical Sciences Electives .....	12
Electives .....	9
Humanities and Social Science Electives .....	6
Professional Technical Electives .....	18
	124 or 127

**Mathematical Sciences — Statistics Concentration**

**Degree Requirements**

University requirements .....	28
Core Program* .....	55 or 58
Mathematical Sciences .....	15
Electives .....	3
Humanities and Social Science Electives .....	6
Professional Technical Electives .....	18
	125 or 128

*In the Statistics concentration the core course Mth 331 is replaced by Mth 4317 Modern Developments in Statistical Methods.*

**Bachelor of Science — Mathematical Sciences  
(Standard Curriculum)**

**First Year**

First Semester	
†Eng Comp .....	3
†Am His 231/236 .....	3
Mth 148/236 Calculus .....	4 or 3
CS 131 Computer Programming I .....	3
Humanities & Social Science Elective .....	3
PE/MLb/MS .....	1
	16 or 17

**Second Semester**

†Eng Composition .....	3
CS 132 Computer Programming II .....	3
Mth 149/237 Calculus II .....	3 or 4
Mth 3370 Introduction to Theory of Statistical Inference .....	3
Phy 247 Introductory Mechanics & Heat .....	4
**PE/MS .....	1
	17 or 18

**Second Year**

**First Semester**

Phy 248 Introductory Physics, Heat, Electricity, Magnetism, Light & Sound .....	4
Mth 241 Calculus and Analytic Geometry III .....	4
English Literature.....	3
Mth 238 Introduction to Applied Mathematics.....	3
PE/MLb/MS .....	1
	15

**Second Semester**

English Literature (1).....	3
Mth 233 Computational Linear Algebra .....	3
Mth 3321 Finite Mathematics .....	3
Chem/Bio/Geo 141.....	4
***Elective.....	3
**PE/MS.....	1
	17

**Third Year**

**First Semester**

Gov 231 Introduction to American Government I .....	3
Mth 437 Mathematical Theory of Probability.....	3
Mth 331 Ordinary Differential Equations.....	3
*Professional Elective.....	3
Mth Sci Elective .....	3
	15

**Second Semester**

Gov 232 Introduction to American Government II .....	3
†His 231/236.....	3
Mth 4315 Numerical Analysis .....	3
Mth Sci Elective.....	3
Professional Elective.....	3
	15

**Fourth Year**

**First Semester**

Mth Sci Elective.....	3
Professional Elective.....	6
***Elective.....	6
	15

**Second Semester**

Mth 3324 Practicum in Applied Mathematics .....	3
Mth Sci Elective.....	3
Humanities and Social Science Elective.....	3
Professional Elective.....	3
***Elective.....	3
	15

*†Student must choose two distinct courses from the indicated list.  
 \*Professional electives are courses selected in consultation with the student's advisor to complete the track selected by the student. If the student's track requires it, this Professional Elective should be chosen from Chem/Bio/Geo 142 or Phy 242.  
 \*\*Spring units may be allotted to the fall semester of all four years.  
 \*\*\*To be selected with the approval of the student's counselor.  
 (1) In place of English literature, the student may choose a course in Speech, Technical Report Writing or Foreign Language.*

**Bachelor of Science — Mathematical Sciences  
 Statistics Concentration  
 (Standard Curriculum)**

**First Year**

**First Semester**

Eng Composition.....	3
†His 231/236.....	3
Mth 148/236 Calculus .....	4 or 3
2317 CS 131 Computer Programming I .....	3
2318 Humanities and Social Sciences Elective .....	3
2319 PE/MLb/MS .....	1
	16 or 17

**Second Semester**

English Composition.....	3
CS 132 Computer Programming II .....	3
Mth 149/237 Calculus II .....	4 or 3
Mth 3370 Introduction to Theory of Statistical Inference.....	3
Phy 146 Introductory Mechanics & Heat.....	4
**PE/MS.....	1
	17 or 18

**Second Year**

**First Semester**

Phy 241 Intro Physics, Electricity, Magnetism, Lt & Sound .....	4
Mth 241 Calculus III .....	4
Chem/Bio/Geo 141.....	4
Mth 238 Introduction to Applied Mathematics.....	3
PE/MLb/MS .....	1
	16

**Second Semester**

English Literature.....	3
Mth 233 Computational Linear Algebra .....	3
Mth 3321 Finite Mathematics .....	3
Minor.....	3
Chem/Bio/Geo 142.....	4
**PE/MS.....	1
	17

**Third Year**

**First Semester**

Gov 231 .....	3
Mth 437 Mathematical Theory of Probability.....	3
Mth 4315 Numerical Analysis .....	3
Minor.....	3
English Literature (1).....	3
	15

**Second Semester**

Gov 232 .....	3
†His 231/236.....	3
Mth 4316 Mathematical Programming .....	3
Mth 438 Theory of Statistics.....	3
Minor.....	3
	15

**Fourth Year**

First Semester	
Mth 4317 Statistical Methodology .....	3
Mth 4321 Least Square Regression Analysis .....	3
CS Elective.....	3
Minor .....	3
***Elective.....	3
15	

Second Semester	
Mth 3324 Practicum in Applied Mathematics .....	3
Mth 4322 Analysis of Variance.....	3
Minor .....	6
***Elective .....	3
15	

*†Student must choose two distinct courses from the indicated list.*

*\*\*Spring units may be allotted to the fall semester of all four years*

*\*\*\*To be selected with the approval of the student's counselor.*

*(1) In place of English literature, the student may choose a course in Speech, Technical Report Writing or Foreign Language.*

**Mathematics Courses (Mth)**

- 1312 **Trigonometry-Lecture** 3:3:0  
 Study of trigonometric functions and identities, inverse functions, graphs and applications of trigonometry. Recommended only for students with no previous trigonometry experience.  
*Prerequisite: Mth 1314 or its equivalent.*
- 1313 **Individualized Tutorial Computational Skills** 3:3:0  
 Review of basic concepts involved in arithmetic computations. Study of the basic concept in elementary algebra. Not recommended for students who have received credit for a course for which this or its equivalent is a prerequisite.
- 1314 **Individualized Tutorial Intermediate Algebra** 3:3:0  
 Linear and quadratic equations and inequalities, exponents, systems of equations, conic sections, exponential equations, relations and functions.  
*Recommended as a review before taking Mth 134 or 1334. Not recommended for students who have received credit in a course for which this or its equivalent is a prerequisite.*  
*Prerequisite: Mth 1313 or one year high school algebra*
- ✓ 1334 **College Algebra** 3:3:0  
 Linear, quadratic equations, factoring, fractions, exponents, radicals, determinants, systems and theory of equations, partial fractions, sequences, series, binomial theorem, logarithms, mathematical induction.  
*Prerequisite: Mth 1314 or its equivalent.*
- ✓ 1335 **Precalculus Mathematics** 3:3:0  
 Fundamentals of algebra, trigonometry and analytic geometry. Prepares students for Mth 148 and 236.  
*Prerequisite: Mth 1334 or its equivalent.*
- ✓ 1336 **Survey of Mathematics** 3:3:0  
 Mathematics history, problem solving, logic and other selected topics of current interest. Designed for Liberal Arts majors.  
*Prerequisite: Mth 1334 or its equivalent.*
- ✓ 134 **Mathematics for Business Applications** 3:3:0  
 Linear equations, systems, inequalities, programming. Vectors, matrices and logarithms.  
*Prerequisite: High School Algebra I and II or Mth 1314.*
- ✓ 1341 **Elements of Analysis for Business Applications** 3:3:0  
 Probability, differential and integral calculus.  
*Prerequisite: Mth 134 or 1334 or their equivalent.*
- 135 **Contemporary Mathematics I** 3:3:0  
 Logic, introduction to mathematical reasoning, sets and relations, the system of whole numbers, numeration systems, system of integers and elementary number theory. Designed for Elementary Education majors.  
*Prerequisite: Mth 1314 or its equivalent.*
- ✓ 136 **Contemporary Mathematics II** 3:3:0  
 Fractions and rational numbers, decimals and real numbers, concepts of probability, introduction to statistics, some concepts from algebra. Designed for Elementary Education majors.  
*Prerequisite: Mth 135.*
- ✓ 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, conic sections, polar coordinates and vector analysis.  
*Prerequisite: Mth 148 or its equivalent.*

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- 233 **Computational Linear Algebra** 3:3:0  
 Basic problems of linear algebra, solution of linear equations, matrices, determinants, spectral theory.  
*Prerequisite: Mth 149 or Mth 237 may be taken concurrently.*
- 234 **Elementary Statistics** 3:3:0  
 Introduction to descriptive and inferential statistics data, measures of central tendency and variation. The normal distribution, correlation and sampling procedures.  
*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, computer and life sciences.  
*Prerequisite: High school Algebra I, II and Trigonometry or Mth 1335.*
- 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, computer and life sciences.  
*Prerequisite: Mth 236.*
- 238 **Introduction to Applied Mathematics** 3:3:0  
 Mathematical modeling with applications to the biological, social and management sciences. Selected topics to suit the needs of individual students.  
*Prerequisite: Mth 134, 1334 or 1335 or their equivalents.*
- 241 **Calculus and Analytic Geometry III** 4:4:0  
 Vectors, parametric equations, functions of several variables, partial derivatives, multiple integrals, functions of complex variable, differential equations.  
*Prerequisite: Mth 149 or equivalent.*
- 330 **Principles of Mathematics** 3:3:0  
 Introduction to some modern mathematical topics. Symbolic logic, development of the number system, groups, fields, sets and function theory.  
*Prerequisite: Mth 149 or 237.*
- 3301 **Differential Equations and Linear Algebra** 3:3:0  
 Ordinary differential equations. Laplace transforms, linear algebraic equations, matrices, eigenvalues, systems of differential equations.  
*Prerequisite: Mth 241.*
- 331 **Ordinary Differential Equations** 3:3:0  
 Solution and modeling techniques, existence and uniqueness, numerical procedures, linear equations and systems, special functions, autonomous nonlinear systems, qualitative techniques.  
*Prerequisite: Mth 233 and 241.*
- 3311 **Set Theory** 3:3:0  
 Infinite sets, cardinal and ordinal arithmetic. Axiom of choice. Transfinite induction. Applications in the topology of the real line, complex plane and simple closed curves.  
*Prerequisite: Mth 149.*
- 3313 **Modern Elementary Geometry** 3:3:0  
 A study of the structure of geometry. Designed specifically for Elementary Education Majors.  
*Prerequisite: Mth 136.*
- 3315 **Number Theory for Education Majors** 3:3:0  
 A development of the theory of number system. Designed specifically for Elementary Education majors.  
*Prerequisite: Mth 1334, 136 and junior standing.*
- 3317 **Problem Solving** 3:3:0  
 Role of inductive and deductive methods in solving and posing problems, motivational techniques to help children become problem solvers. Methodology is introduced via illustrative examples. Designed for both Elementary and Secondary Education majors.  
*Prerequisite: Mth 1334 or its equivalent or above.*
- 3319 **Combinatorics** 3:3:0  
 Emphasis on decision-making applications. Topics covered: sets and order sets, order relation, logic, induction, generating functions, general methods of counting, permutations, Polya's theorem, partitions, trees, networks, scheduling problems, integral and conditional linear programming, decision problems.  
*Prerequisite: Mth 149 or Mth 237.*
- 3321 **Finite Mathematics** 3:3:0  
 Linear programming, matrix game theory, social science models; transportation models, graph theory models.  
*Prerequisite: At least one course from Mth 148, 233, 236, 238.*
- 3322 **Computability** 3:3:0  
 Existence of non-computable functions, notion of computability; recursive functions, Turing machines, Markov algorithms; equivalence of these notions. Church's thesis, recursive enumerability; unsolvability.  
*Prerequisite: Junior standing.*

- 3324 **Practicum in Applied Mathematics** 3:3:0  
Introduction to methods and practices of applied mathematics. The student with faculty supervision will be required to identify, analyze and construct a mathematical model of an appropriate problem in his or her chosen field. A partial list of areas particularly suited to these techniques includes: biology, economics, psychology and oceanography.  
*Prerequisite: Consent of department head of Mathematics.*
- 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.*
- 335 **Modern Algebra** 3:3:0  
Group theory, integral domains, fields, polynomials, unique factorization domains, rings and ideals, spectral theorem in finite dimensional spaces. Jordan canonical form and other selected topics.  
*Prerequisite: Mth 233.*
- 3361 **Applied Abstract Algebra** 3:3:0  
Binary relations and graphs, Boolean algebra, semigroups, groups, rings, polynomial rings, ideals, finite fields with applications to computer design, circuits, switching networks, linear finite state machines, finite state automata and coding theory.  
*Prerequisite: Mth 233.*
- 3370 **Introduction to the Theory of Statistical Inference...** 3:3:0  
Data, organizing and describing data, probability and statistical inference.  
*Prerequisite: Mth 241.*
- 338 **Advanced Calculus** 3:3:0  
The concept of a function, limits sequences, continuity, differentiability, the Riemann integral, infinite series, Taylor series.  
*Prerequisite: Mth 241.*
- 4131, 4231, 4331 **Special Problems** 1-3:1-3:0  
Special advanced problems in mathematics to suit the needs of individual students. Course may be repeated when the topic varies.
- 4142, 4242, 4342 **Special Topics in Analysis** 1-3:1-3:0  
Special advanced problems in analysis to suit the needs of individual students. This course may be repeated for credit when topics differ.
- 4202 **Partial Differential Equations** 2:2:0  
Fourier series, separation of variables applied to problems for heat, wave and Laplace equations. Transform methods and numerical procedures.  
*Prerequisite: Mth 241.*
- 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 **Complex Variables** 3:3:0  
Complex numbers, analytic functions, complex line integrals, Cauchy integral formula and applications.  
*Prerequisite: Mth 241; 3311.*
- 4315 **Numerical Analysis** 3:3:0  
Approximations, interpolations, finite differences, numerical integration, curve fitting.  
*Prerequisite: Mth 139 or 149 or Mth 237 and CS 132 or Egr 133 or its equivalent.*
- 4316 **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 241 or 237 and 3 semester hours of computer science courses.*
- 4317 **Modern Developments in Statistical Methodology** 3:3:0  
Special subjects in higher mathematics to meet the needs of individual students.  
*Prerequisite: Approval of instructor.*
- 4321 **Least Squares and Regression Analysis** 3:3:0  
Simple, multiple and curvilinear regression analysis; orthogonal polynomials; nonlinear least squares.  
*Prerequisite: Approval of instructor.*
- 4322 **Analysis of Variance** 3:3:0  
Analysis of variance in experimental statistics, single and multiple classifications; factorials; analysis of designed experiments including randomized blocks and Latin squares; multiple comparisons and orthogonal contrasts.  
*Prerequisite: Approval of instructor.*



- 4325 **Finite Element Analysis** 3:3:0  
Fundamentals of the finite element method. Domain discretization, interpolation functions, computer implementation. Applications to heat transfer, torsion on noncircular sections, and irrotational flow.  
*Prerequisite: Mth 331 or 3301.*
- 433 **Linear Algebra** 3:3:0  
Linear spaces, linear transformations, matrices, determinants, eigenvalues, eigenvectors, inner product spaces, adjoint spaces, self adjoint transformations, quadratic forms, principal axis transformations, spectral decomposition.  
*Prerequisite: Mth 233, 149 or Mth 237.*
- 435 **Introductory Topology** 3:3:0  
Topological, metric, product, connected and compact spaces. Continuity, homeomorphism, sub-spaces, components and open coverings. Some applications to analysis.  
*Prerequisite: Mth 3311.*
- 4351 **Cultural Approach to Mathematics** 3:3:0  
Designed for liberal arts students, teachers of elementary and secondary mathematics and non-mathematical subjects. A survey demonstrating how mathematics is intricately related to physical sciences, philosophy, logic, religion, literature, music, painting and other arts.
- 437 **Mathematical Theory of Probability** 3:3:0  
Single event probabilities; permutations/combinations; discrete probabilities density, binomial, Poisson and normal functions; expectations/variances; Central Limit theorem; Chi-square/F-distributions; (emphasis placed on use of concepts rather than the rigorous proofs of the theorems themselves).  
*Prerequisite: Mth 3370.*
- 438 **Statistical Methods** 3:3:0  
Sampling; introduction to least squares/regression analysis; experimental designs, completely randomized design (CRD), randomized complete block design (RCBD), and factorial designs.  
*Prerequisite: Permission of the instructor or Mth 437.*



# College of Fine and Applied Arts

Departments: Art, Communication, Music

W. Brock Brentlinger, Ph.D., Dean

## 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 and Applied Arts 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. In this respect the aims and purposes of the College of Fine and Applied Arts agree with and complement those of Lamar University. The goal of the coursework in the applied and pragmatic arts is to educate students for professional work within the fields of speech and mass communication, and speech and hearing therapy.

**In Relation to the Departments:** The College of Fine and Applied Arts offers the following basic degree programs:

1. Bachelor of Fine Arts/Art Major
  - a. Graphic Design
  - b. Studio Art
2. Bachelor of Science/Art Major
  - a. Plan I Graphic Design
  - b. Plan II Studio Art
  - c. Plan III All Level Teacher Certification
  - d. Secondary Art
3. Bachelor of Music/Major in:
  - a. All Applied Fields
  - b. Theory and Composition
  - c. Music Education
4. Bachelor of Science Music Major, Teacher Certification all levels
  - a. Instrumental Major
  - b. Piano Major
  - c. Vocal Major
  - d. Theory and Composition
5. Bachelor of Science Speech or Mass Communication Major
  - a. Plan I Teacher Certification in Speech, Theater or Journalism
  - b. Plan II Teacher Certification in Speech and Hearing Therapy
  - c. Plan III Bachelor of Science — Mass Communication
  - d. Plan IV Speech and Hearing Therapy, Speech communication or, Theater.
6. Bachelor of Arts Speech Communication major, available in all four plans listed
  - a. Bachelor of Science Communication Majors
  - b. Bachelor of General Studies Fine Arts

Descriptions of graduate programs leading to the Master of Music, Master of Music Education and master of speech in speech, speech pathology, audiology and 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	<b>Appreciation of Art and Music</b> Survey course of art and music appreciation. Introduces student to major monuments of painting, sculpture and architecture. The course is concerned with basic principles of line, color, space and form common to visual art. The music section seeks to develop the student's perception of "sound" and "time" in music. A wide spectrum of music is presented including jazz, rock, opera, nonwestern and traditional classical.	3:3:0
131	<b>Appreciation of Music and Theater</b> A survey course of music and theater appreciation. Introduces student to the concepts of "sound" and "time" in music. A wide spectrum of music will be presented including jazz, rock, opera, nonwestern and traditional classical. The theater section presents theater as a fine art including comment on the related fields of motion pictures and television.	3:3:0
132	<b>Appreciation of Theater and Art</b> A survey course of theater and art appreciation. Introduces the student to theater as a fine art including comment of the related fields of motion pictures and television. The art section of the course presents the major monuments of painting, sculpture and architecture. Explains the basic principles of line, color, space and form common to all visual arts.	3:3:0
231	<b>Studies in Italian Culture</b> 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. <i>Summers only. (LU-Rome only.)</i>	3:2:4
331	<b>Experiential Learning in the Arts</b> 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.	3:0:9
335	<b>Topics in Museum Studies</b> Research seminars and individual directed study conference courses on selected topics, techniques and developments in museology. May be repeated for a maximum of six semester hours when the area of study is different.	3:3:0
439	<b>Seminar in the Fine Arts</b> 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.	3:3:0

## 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 his/her own curricular plan, i.e., to follow a special interest within the arts, or to complement his/her 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 233 Introduction to Theater ..... 3	Art 135 Art Appreciation ..... 3
MLt 122 Music Literature ..... 2	His 234 American History: Arts in America ..... 3
MEd 131 Elements of Music ..... 3	MLt 122 Music Literature ..... 2
English Composition ..... 3	English Composition ..... 3
Mth/Sci ..... 3-4	Mth/Sci ..... 3-4
PE Activity ..... 1	PE Activity ..... 1
<u>15-16</u>	<u>15-16</u>

### Second Year

First Semester	Second Semester
MLt 113 Pop Music Survey ..... 1	Art 236 Art History II ..... 3
Art 235 Art History Survey I ..... 3	Eng Literature/Spc/Foreign Language ..... 3
Eng 2311 English Literature ..... 3	Gov 232 Introduction to American Government II ... 3
Gov 231 Introduction to American Government I ... 3	Mth ..... 3
Mth/Sci ..... 3-4	His 231 American History ..... 3
PE Activity ..... 1	PE Activity ..... 1
<u>14-15</u>	<u>16-17</u>

**Third Year**

First Semester	
MLt 333 Music History I.....	3
Eng 337/4317 Drama.....	3
Hum 331 Experiential Learning.....	3
Elective.....	4
Elective.....	4
	16

Second Semester	
MLt 334 Music History II.....	3
The 334 Stagecraft.....	3
Hum 331 Experiential Learning.....	3
Elective.....	3
Elective.....	4
	16

**Fourth Year**

First Semester	
The 436 History of Theater.....	3
Hum 331 Experiential Learning.....	3
Elective.....	3
Elective.....	3
Elective.....	3
	15

Second Semester	
Hum 439 Seminar Fine Arts.....	3
Elective.....	3
Elective.....	3
Elective.....	3
	12

**Department of Art**

Department Head: Robert C. Rogan

107B Art Building

Professors: Rogan, Newman

Associate Professors: Madden, O'Neill

Assistant Professors: Jack, Lokensgard

Instructors: Fitzpatrick, Sommerfeld

Adjunct Instructor: Webb

The Department of Art offers undergraduate instruction leading to the Bachelor of Fine Arts degree or the Bachelor of Science degree. Art courses are designed for the general student as well as those who intend to enter the visual arts professionally.

Art majors are required to follow the prescribed sequence of courses. The letter grade "C" will be the minimum prerequisite grade for continuing studio courses in sequence.

All graduating art majors must be counseled by the Art Department Chairman during the first semester of their senior year.

During the senior year, a candidate for a degree in art will be required to prepare a one-person exhibit or to participate in a group exhibit. 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.

Students may minor in art by earning 18 hours of credit approved by the department head.

**Recommended Programs of Study**

**Bachelor of Fine Arts**

**Specialization in Graphic Design**

**First Year**

First Semester	
Art 131 Drawing I.....	3
Art 133 Design I.....	3
Art 135 Art Appreciation.....	3
English Composition.....	3
PE Activity.....	1
Mth/Laboratory Science.....	3-4
	16-17

Second Semester	
Art 132 Drawing II.....	3
Art 134 Design II.....	3
Hum 131 Appreciation of Music and Theater.....	3
English Composition.....	3
PE Activity.....	1
Mth/Laboratory Science.....	3-4
	16-17

**Second Year**

First Semester	
Art 231 Drawing III .....	3
Art 233 Design III .....	3
Art 235 Art History Survey I .....	3
PE Activity .....	2
Eng Literature .....	3
Mth/Laboratory Science .....	3-4
	17-18

Second Semester	
Art 232 Drawing IV .....	3
Art 236 Art History II .....	3
Art 237 Graphic Design I .....	3
PE Activity .....	2
Eng Literature/Spc/Foreign Language .....	3
Mth/Laboratory Science .....	3-4
	17-18

**Third Year\***

First Semester	
Art 239 Photography I .....	3
Art 3313 Illustration I .....	3
Art 3333 Graphic Design II .....	3
Sophomore American History .....	3
Gov 231 Introduction to American Government I .....	3
Dft 133 Introduction to Drafting .....	3
	18

Second Semester	
Art 3393 Photography II .....	3
Art 3343 Graphic Design III .....	3
Art History Elective .....	3
Sophomore American History .....	3
Gov 232 Introduction to American Government II .....	3
Eco 233 Principles and Policies .....	3
	18

**Fourth Year**

First Semester	
Graphic Design Elective .....	3
Art 3355 Printmaking I .....	3
Art 3316 Watercolor I .....	3
Art History Elective .....	3
Free Elective .....	3
	15

Second Semester	
Art 4343 Problems in Graphic Design .....	3
Art Elective .....	3
Art Studio Elective .....	3
Art History Elective .....	3
Free Elective .....	3
	15

\*Art 235-236 prerequisite to all Art 300-400 level courses for art majors.

**Specialization in Studio Art.**

**First Year**

First Semester	
Art 131 Drawing I .....	3
Art 133 Design I .....	3
Art 135 Art Appreciation .....	3
English Composition .....	3
PE Activity .....	1
Mth/Laboratory Science .....	3-4
	16-17

Second Semester	
Art 132 Drawing II .....	3
Art 134 Design II .....	3
Hum 131 Appreciation of Music and Theater .....	3
English Composition .....	3
PE Activity .....	1
Mth/Laboratory Science .....	3-4
	16-17

**Second Year**

First Semester	
Art 231 Drawing III .....	3
Art 233 Design III .....	3
Art 235 Art History Survey I .....	3
PE Activity .....	2
English Literature .....	3
Mth/Laboratory Science .....	3-4
	17-18

Second Semester	
Art 232 Drawing IV .....	3
Art 234 Sculpture I .....	3
Art 236 Art History II .....	3
Art 238 Painting I .....	3
PE Activity .....	2
Eng Literature/Spc/Foreign Language .....	3
	17

**Third Year\***

First Semester	
Art 3315 Drawing V .....	3
Art 3316 Watercolor I .....	3
Art 3355 Printmaking I .....	3
Sophomore American History .....	3
Gov 231 Introduction to American Government I .....	3
Mth/Laboratory Science .....	3-4
	17-18

Second Semester	
Art 3317 Painting II .....	3
Art 3325 Drawing VI .....	3
Art History Elective .....	3
Sophomore American History .....	3
Gov 232 Introduction to American Government II .....	3
	15

**Fourth Year**

First Semester	
Art Studio Elective.....	3
Art Studio Elective.....	3
Art Studio Elective.....	3
Art History Elective.....	3
Electives.....	6
	18

Second Semester	
Art 4399 Senior Thesis and Exhibit.....	3
Art Studio Elective.....	3
Art Studio Elective.....	3
Art History Elective.....	3
Electives.....	6
	18

\*Art 235-236 prerequisite to all Art 300-400-level courses for art majors.

**Bachelor of Science  
Specialization in Graphic Design**

**First Year**

First Semester	
Art 131 Drawing I.....	3
Art 133 Design I.....	3
English Composition.....	3
PE Activity.....	1
Hum 131 Appreciation of Music and Theater.....	3
Mth/Laboratory Science.....	3-4
	16-17

Second Semester	
Art 132 Drawing II.....	3
Art 134 Design II.....	3
English Composition.....	3
PE Activity.....	1
Mth/Laboratory Science.....	3-4
Dft 133 Introduction to Drafting.....	3
	16-17

**Second Year**

First Semester	
Art 231 Drawing III.....	3
Art 233 Design III.....	3
Art 235 Art History Survey I.....	3
English Literature.....	3
PE Activity.....	2
Elective.....	3
	17

Second Semester	
Art 236 Art History II.....	3
Art 237 Graphic Design I.....	3
Art 239 Basic Black & White Photography II.....	3
PE Activity.....	2
Elective.....	3
Eng Literature/Spc/Foreign Language.....	3
	17

**Third Year\***

First Semester	
Art 3313 Illustration I.....	3
Art 3333 Graphic Design II.....	3
Sophomore American History.....	3
Mth/Laboratory Science.....	3-4
Elective.....	3
	15-16

Second Semester	
Art 3343 Graphic Design III.....	3
Graphic Design Elective.....	3
Sophomore American History.....	3
Mth/Laboratory Science.....	3-4
Eco 233 Principles and Policies.....	3
	15-16

**Fourth Year**

First Semester	
Art 3355 Printmaking I.....	3
Art Elective.....	3
Gov 231 Introduction to American Government I.....	3
Electives.....	9
	18

Second Semester	
Art 4343 Problems in Graphic Design.....	3
Art Elective.....	3
Gov 232 Introduction to American Government II.....	3
Electives.....	9
	18

\*Art 235-236 prerequisite to all Art 300-400 level courses for art majors.

**Bachelor of Science  
Specialization in Studio Art**

**First Year**

First Semester	
Art 131 Drawing I.....	3
Art 133 Design I.....	3
English Composition.....	3
PE Activity.....	1
Hum 131 Appreciation of Music and Theater.....	3
Mth/Laboratory Science.....	3-4
	16-17

Second Semester	
Art 132 Drawing II.....	3
Art 134 Design II.....	3
Art 135 Art Appreciation.....	3
English Composition.....	3
PE Activity.....	1
Mth/Laboratory Science.....	3-4
	16-17

**Second Year**

**First Semester**

Art 231 Drawing III .....	3
Art 233 Design III .....	3
Art 235 Art History Survey I .....	3
PE Activity .....	2
English Literature .....	3
Mth/Laboratory Science .....	3-4
<hr/>	
	17-18

**Second Semester**

Art 231 Drawing IV .....	3
Art 234 Sculpture I .....	3
Art 236 Art History II .....	3
Art 238 Painting I .....	3
PE Activity .....	2
Eng Literature/Spc/Foreign Language .....	3
<hr/>	
	17

**Third Year\***

**First Semester**

Art 3316 Watercolor I .....	3
Art 3317 Painting II .....	3
Art 3355 Printmaking I .....	3
Sophomore American History .....	3
Electives .....	3
<hr/>	
	15

**Second Semester**

Art 3327 Painting III .....	3
Sophomore American History .....	3
Electives .....	6
Mth/Laboratory Science .....	3-4
<hr/>	
	15-16

**Fourth Year**

**First Semester**

Art History .....	3
Gov 231 Introduction to American Government I .....	3
Electives .....	12
<hr/>	
	18

**Second Semester**

Art 4399 Senior Thesis and Exhibit .....	3
Art History .....	3
Gov 232 Introduction to American Government II .....	3
Electives .....	9
<hr/>	
	18

\*Art 235-236 prerequisite to all Art 300-400 level courses for art majors.

**Bachelor of Science**

*in Art?*

**All-Levels Certification**

**First Year**

**First Semester**

Art 131 Drawing I .....	3
Art 133 Design I .....	3
English Composition .....	3
PE Activity .....	1
Mth .....	3
Elective .....	3
<hr/>	
	16

**Second Semester**

Art 132 Drawing II .....	3
Art 134 Design II .....	3
English Composition .....	3
PE Activity .....	1
Mth .....	3
Elective .....	3
<hr/>	
	16

**Second Year**

**First Semester**

Art 231 Drawing III .....	3
Art 233 Design III .....	3
Art 235 Art History Survey I .....	3
English Literature .....	3
PE Activity .....	2
Science (Laboratory) .....	4
<hr/>	
	18

**Second Semester**

Art 236 Art History II .....	3
English Literature .....	3
PE Activity .....	2
Science (Laboratory) .....	4
Electives .....	6
<hr/>	
	18

**Third Year\***

**First Semester**

Art 3316 Watercolor I .....	3
Art 3371 Elementary Art Education .....	3
Edu 331 Foundations of Education .....	3
Edu 332 Educational Psychology .....	3
Gov 231 Introduction to American Government I .....	3
Sophomore American History .....	3
<hr/>	
	18

**Second Semester**

Art 3381 Secondary Art .....	3
Edu 334 Child Development and Evaluation .....	3
Gov 232 Introduction to American Government II .....	3
Sophomore American History .....	3
Elective .....	4
<hr/>	
	16



## Fourth Year

First Semester	Second Semester
Art 3355 Printmaking I..... 3	Art 4341 Crafts Sec Edu..... 3
Art 3376 Ceramics I..... 3	Art 4381 Problems: Art Education..... 3
Art 4331 Crafts Elementary Education..... 3	Edu 463 Student Teaching—Special..... 6
Edu 438 Classroom Management Secondary..... 3	Electives..... 3
Electives..... 3	
15	15

\*Art 235-236 prerequisite to all Art 300-400 level courses for art majors.

## Teacher Certification—Art

Students wishing to obtain the Bachelor of Science degree in art 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. Art 131, 133, 134, 231, 3316, 3381, 4341, 4381.
2. An approved 24 hour additional teaching field. (See list of approved teaching fields in the College of Education section of this Bulletin).
3. Eighteen hours of education: 331, 332, 338, 438, 462.
4. Approved electives to complete a total of 132 semester hours.

## Art Courses (Art)

131	<b>Drawing I</b>	3:6:0
	A beginning course investigating a variety of drawing media, techniques and subjects, exploring perceptual and descriptive possibilities.	
132	<b>Drawing II</b>	3:6:0
	Continuation of Drawing I stressing the expressive and conceptual aspects of drawing. <i>Prerequisite: Art 131.</i>	
133	<b>Design I</b>	3:6:0
	The study of the elements and concepts of two-dimensional design.	
134	<b>Design II</b>	3:6:0
	Continuation of Design I with emphasis upon three-dimensional concept. <i>Prerequisite: Art 133.</i>	
135	<b>Art Appreciation</b>	3:3:0
	An introductory course emphasizing the understanding and appreciation of visual arts (painting, sculpture, architecture) Open to all students.	
1393	<b>Introduction to Photographic Arts</b>	3:3:0
	Fundamentals of photography, including cameras, films and lighting. Recommended for non-majors who wish a course requiring no laboratory.	
231	<b>Drawing III</b>	3:6:0
	A life drawing course emphasizing structure and action of the human figure. <i>Prerequisite: Art 132.</i>	
232	<b>Drawing IV</b>	3:6:0
	A continuation of Drawing III with emphasis on individual expression. <i>Prerequisite: Art 231.</i>	
233	<b>Design III</b>	3:6:0
	An advanced investigation into the problems of two-dimensional form with emphasis on individual expression. <i>Prerequisite: Art 134.</i>	
234	<b>Sculpture I</b>	3:6:0
	An exploration of the various sculptural approaches in a variety of media including additive and subtractive techniques. <i>Prerequisite: Art 132 and 134.</i>	
235	<b>Art History Survey I</b>	3:3:0
	A survey of painting, sculpture, architecture and the minor arts from prehistoric times to the 14th Century.	
236	<b>Art History Survey II</b>	3:3:0
	A survey of painting, sculpture, architecture and the minor arts from the 14th Century to the present.	
237	<b>Graphic Design I</b>	3:6:0
	An introduction to the field of graphic design with emphasis on typography and basic layout.	

238	<b>Painting I</b> Exploring the potentials of painting media with emphasis on color and composition. <i>Prerequisite: Art 132 and 134.</i>	3:6:0
239	<b>Basic Black and White Photography I</b> An introduction to basic photographic processes and techniques used as an art medium.	3:6:0
3313	<b>Illustration I</b> A media course. The preparation and execution of graphic material for reproduction.	3:6:0
3315	<b>Drawing V</b> Continuation of drawing. Experimentation with various media and their adaptability to drawing principles. <i>Prerequisite: Art 232.</i>	3:6:0
3316	<b>Watercolor I</b> 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>	3:6:0
3317	<b>Painting II</b> Continuation of Painting I with emphasis on individual expression. <i>Prerequisite: Art 238. May be repeated for credit.</i>	3:6:0
3323	<b>Illustration II</b> Experimentation with various techniques and/or media. Continuation of Art 3313. <i>Prerequisite: Art 3313.</i>	3:6:0
3325	<b>Drawing VI</b> Continuation of Art 3315. <i>Prerequisite: Art 3315.</i>	3:6:0
3326	<b>Watercolor II</b> A continuation of 3316. May be repeated for credit. <i>Prerequisite: Art 3316.</i>	3:6:0
3327	<b>Painting III</b> Continuation of 3317. May be repeated for credit. <i>Prerequisite: Art 3317.</i>	3:6:0
3333	<b>Graphic Design II</b> The study of advanced layout for media advertising, collateral and editorial material and the basic preparation of art for reproduction. <i>Prerequisite: Art 237.</i>	3:6:0
3335	<b>Crafts</b> Basic processes of textile design, weaving, leather and jewelry. May be repeated for credit.	3:6:0
3343	<b>Graphic Design III</b> The development of art and typography for media advertising, collateral and editorial material with emphasis on the preparation of camera ready art. <i>Prerequisite: Art 239, 3313, 3333.</i>	3:6:0
3353	<b>Fashion Layout and Illustration</b> A study of basic layout and illustration for fashion advertising.	3:6:0
3355	<b>Printmaking I</b> An introduction to printmaking with an emphasis on intaglio and relief processes. <i>Prerequisite: Art 233.</i>	3:6:0
3365	<b>Printmaking II</b> A continuation of Art 3355 with emphasis on planographic and serigraphic techniques. May be repeated for credit. <i>Prerequisite: Art 3355.</i>	3:6:0
3371	<b>Elementary Art Education</b> Curricula, methods, and materials for the elementary school.	3:3:0
3375	<b>Sculpture II</b> Application of the principles of sculpture through experiment in clay, plaster and various materials. May be repeated for credit. <i>Prerequisite: Art 234.</i>	3:6:0
3376	<b>Ceramics I</b> Investigation and practice in ceramic processes: forming and firing techniques. May be repeated for credit. <i>Prerequisite: Art 234 or permission of instructor.</i>	3:6:0
3381	<b>Secondary Art Education</b> Curricula, methods, and materials for the secondary school. <i>Spring semester only.</i>	3:3:0
3386	<b>Ceramics II</b> Opportunities for specialization in ceramic processes. May be repeated for credit. <i>Prerequisite: Art 3376.</i>	3:6:0

3393	<b>Advanced Photography</b> Advanced study of photography as an art medium. <i>Prerequisite: Art 239.</i>	3:6:0
4315	<b>Drawing VII</b> Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: Art 232.</i>	3:6:0
4316	<b>Painting IV</b> Specialized problems in studio area. May be repeated for credit.	3:6:0
4325	<b>Drawing VIII</b> A continuation of Drawing VII. <i>Prerequisite: Art 3325.</i>	3:6:0
4326	<b>Painting V</b> A continuation of Painting IV. May be repeated for credit. <i>Prerequisite: Art 4316.</i>	3:6:0
4331	<b>Crafts Elementary Education</b> An introduction to various craft materials and techniques used in the elementary school. Course may be repeated for credit.	3:6:0
4333	<b>Problems in Graphic Design</b> Further study of commercial art techniques and typography. <i>Prerequisite: Art 3343.</i>	3:6:0
4336	<b>Professional Practices</b> A study of the practical aspects of the art profession with emphasis on health hazards, business procedures, and art law.	3:3:0
4338	<b>Renaissance Art</b> Study of 15th and 16th century art in the Western world.	3:3:0
4341	<b>Crafts Secondary Education</b> An introduction to the various craft materials and techniques used in the secondary school. Course may be repeated for credit.	3:6:0
4343	<b>Problems in Graphic Design</b> Study in commercial art techniques and production. <i>Prerequisite: Art 3343.</i>	3:6:0
4348	<b>Nineteenth &amp; Twentieth Century Abstract Art</b> Foundation of Abstraction in European Art from Neo-Classicism through Surrealism.	3:3:0
4353	<b>Special Problems in Graphic Design I</b> Investigation of problems, methods and other considerations relevant to designing an advertising campaign. <i>Prerequisite: Art 3343.</i>	3:6:0
4355	<b>Printmaking III</b> Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: Art 3365.</i>	3:6:0
4358	<b>American Art</b> The development of painting, sculpture and architecture in the United States from Colonial times to the present.	3:3:0
4363	<b>Special Problems in Graphic Design II</b> Continuation of 4353. <i>Prerequisite: Art 3343.</i>	3:6:0
4368	<b>Contemporary Art</b> A historical and critical analysis of painting, sculpture, and architecture in Europe and the Americas from 1900 to the present.	3:3:0
4371	<b>Curriculum and Instruction in Art Education</b> Problems in selecting, evaluating, and guiding art activities. Study of children's development in art as background for teaching.	3:3:0
4373	<b>Field Study in Graphic Design</b> Familiarization with the overall commercial art field through actual experience. Time to be arranged. Permission of instructor.	3:6:0
4375	<b>Sculpture III</b> Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: Art 3375.</i>	3:6:0
4376	<b>Ceramics III</b> Specialized problems in studio area. May be repeated for credit. <i>Prerequisite: Art 3376.</i>	3:6:0
4378	<b>Primitive Art</b> A study of the development and nature of primitive art.	3:3:0

4381	<b>Problems: Art Education</b> Individual projects to be completed under faculty supervision. <i>Prerequisite: Art 3371, 3381.</i>	3:6:0
4388	<b>Modern Architecture and Sculpture</b> The development and evolution of modern architecture and sculpture from the late 19th century to the present in America and Europe.	3:3:0
4391	<b>Directed Individual Study</b> Study of specialized area within art education field. May be repeated for credit. <i>Prerequisite: Permission of instructor.</i>	3:A:0
4393	<b>Directed Individual Study</b> Study of specialized area within commercial art field. May be repeated for credit. <i>Prerequisite: Permission of instructor.</i>	3:A:0
4395	<b>Directed Individual Study</b> Study of specialized area within fine arts field. May be repeated for credit. <i>Prerequisite: Permission of instructor.</i>	3:A:0
4398	<b>History of Photography</b> The development and evolution of photography from its invention in 1839 to the present.	3:3:0
4399	<b>Senior Thesis &amp; Exhibit</b> Student chooses a special project (exhibition or research or design project) for presentation.	3:6:0

## Department of Communication

Department Head: John P. Johnson

201 Communication Building

Professors: Achilles, Brentlinger, Holland, James, Pederson

Associate Professors: Johnson, Harrigan, Lin, McIntosh, Moulton, Roth

Assistant Professors: Baker, King, Myers, Wilkerson, Winney

Instructors: Eddy, Holcomb

Adjunct Instructor: Cockrell, Lee, Mistic, Perkins, Placette

The Department of Communication has four plans of study with majors in speech communication, speech and hearing science, mass communication and theater. Secondary teacher certification is offered in speech, drama or journalism under Plan I. Plan II is a generic speech and hearing science degree that is a foundation for the master's degree and for professional teacher certification in speech pathology or deaf education. Plan III is the mass communication degree and Plan IV is an individualized program in any of the areas of the department. It does not lead to teacher certification, but being highly flexible it lends itself to specialized professional interests or to preparation for graduate study. Areas of concentration include radio/TV/film, journalism, advertising, public relations, interpersonal or organizational communication, theater, speech pathology and deaf education.

Speech and mass communication under Plan IV programs serve as appropriate degrees for entry into law schools. Either of these plans also may serve as a three year pre-law foundation for special degree programs described earlier under Degree Requirements. See the head of the Communication Department for details.

Theater majors, whether for degree or teacher certification purposes, are required to take Theater 210-Theater Practicum during four different semesters or summer terms. Two of these practicums may be transferred from other colleges.

Speech communication majors, regardless of area of concentration, are required to take Speech 1302, 131, 232, 235, 238, 332, 334, 4324, 433, and 434. The department does not accept grades of "D" in the major area.

## Recommended Programs of Study

### Bachelor of Science — Speech Communication

**Plan I** This program is designed for those who wish to qualify for a secondary teacher's certificate in speech, drama or journalism. Two teaching fields of 24 semester hours each are required for certification.

**First Year**

First Semester	
English Composition .....	3
PE Activity .....	1
Science (Laboratory) .....	4
Mth .....	3
Major Required .....	6
	17

Second Semester	
English Composition .....	3
PE Activity .....	1
Science (Laboratory) .....	4
Mth .....	3
Major Required .....	3
Hum 132 Appreciation of Theater and Art .....	3
	17

**Second Year**

First Semester	
English Literature .....	3
His United States (Soph) .....	3
PE Activity .....	1
Major Required .....	6
Electives .....	3
	16

Second Semester	
English Literature .....	3
His United States (Soph) .....	3
PE Activity .....	1
Major Required .....	3
Electives .....	6
	16

**Third Year**

First Semester	
C&I 331 Foundations of Education .....	3
C&I 332 Educational Psychology .....	3
Gov 231 Introduction to American Government I .....	3
Major Adv .....	3
Teaching Field Two and/or Electives .....	6
	18

Second Semester	
C&I 338 Curriculum, Materials and Evaluation .....	3
Gov 232 Introduction to American Government II .....	3
Major Adv .....	6
Teaching Field Two and/or Electives .....	6
	18

**Fourth Year**

First Semester	
C&I 438 Classroom Management Secondary .....	3
Major Adv .....	3
Teaching Field Two and/or Electives .....	12
	18

Second Semester	
C&I 462 Student Teaching—Special .....	6
Teaching Field Two and/or Electives .....	6
	12

Below are the courses required for certification in each area. Speech Communication: Spc. 222, 232, 235, 238, 332, 334, 4324, 434

In addition, Speech 131, 1302 and 433 are degree requirements.

Courses in the theater/drama area are: The 210 (four times), 231, 235, 237, 331, 332, 335. In addition, Theater 1311 is a degree requirement.

Courses included in the journalism area are: Com 133, 231, 232, 333, 3381, 4383, 431 and 432. In addition, Com 131 is a degree requirement.

**Plan II** General Speech and Hearing Science. This program lays the foundation for teacher certification in speech therapy and deaf education and for preprofessional training in audiology, which may be completed on the graduate level. For specifics on undergraduate provisional teacher certification, please see the Director of the Communication Disorders Program.

**NOTE:** ASHA Certification required completion of a master's degree in speech pathology or audiology.

**First Year**

First Semester	
Bio 141 General Biology .....	4
English Composition .....	3
PE Activity .....	1
Mth .....	3
Spc 1301 Introduction to Speech and Language Disorders .....	3
Spc 1302 Phonology .....	3
	17

Second Semester	
Bio 142 General Biology .....	4
Hum 130, 131 or 132 .....	3
English Composition .....	3
PE Activity .....	1
Mth .....	3
Spc 1303 Speech, Hearing and Voice Science .....	3
	17

## Second Year

First Semester	Second Semester
English Literature..... 3	English Literature..... 3
His United States (Soph)..... 3	His United States (Soph)..... 3
PE Activity..... 1	PE Activity..... 1
Spc 2302 Introduction to Deaf Education..... 3	Spc 2303 Introduction to Audiology..... 3
Elective..... 6	Spc 2301 Introduction to Speech Pathology..... 3
16	16

## Third Year

First Semester	Second Semester
C&I 331 Foundations of Education..... 3	Spc 3302 Language Development and Language Disorders..... 3
C&I 332 Educational Psychology..... 3	SpEd 2301 Foundations of Special Education..... 3
Gov 231 Introduction to American Government I..... 3	C&I 334 Child Development and Evaluation..... 3
Spc 3303 Introduction to Manual Communication Systems..... 3	Gov 232 Introduction to American Government II..... 3
Spc 3301 Research..... 3	Elective..... 6
Bio 332 Anatomy and Physiology of Speech and Hearing..... 3	18
18	18

## Fourth Year

First Semester	Second Semester
C&I 434 Classroom Management Elementary..... 3	Spc 4303 Clinical Practicum..... 3
Spc 4302 Advanced Audiology..... 3	Electives..... 9
Spc 4301 Advanced Speech Pathology..... 3	12
Electives..... 9	12
18	12
Total.....	132

### Plan III

## Bachelor of Science — Mass Communication

The purpose of this degree program is a broadly-based preparation for university students who are interested in professional careers in mass communication, e.g., radio, television, film, journalism, public relations, industrial media, sales and advertising. In its attempt to prepare students for the communications industry as a whole, rather than for a specific position, the program focuses attention upon significant concepts of the mass communication process in contrast to efforts to refine and perfect specific skills. The program does, however, give attention to the development of basic speech, media, art and writing proficiency. Thus, a unique characteristic of this degree is its purpose to provide the student with an interdisciplinary experience in the study of communication involving several departments. For this reason, the major requirement is 43 hours instead of the usual 24 or 30 hours. Within this total program, 27 hours of specific coursework is required, and the student will complete the 43-hour total by selecting 16 hours from a second group of related courses referred to in the degree plan as 'major electives.' Credit for internship may be granted through the major and free elective areas. Each student will complete at least one internship.

The student may desire to emphasize non-quantitative business administration courses or teacher certification through careful use of electives in order to give a wider vocational opportunity.

## First Year

First Semester	Second Semester
English Composition..... 3	Eng 134 Composition..... 3
Science (Laboratory)..... 4	Science (Laboratory)..... 4
Spc 131 Public Speaking..... 3	Eco 233 Principles and Policies..... 3
Com 131 Introduction to Mass Communication..... 3	Com 133 News Writing..... 3
Hum 130, 131 or 132..... 3	CS 130 Computers and Society..... 3
PE Activity..... 1	PE Activity..... 1
17	17

**Second Year**

First Semester	Second Semester
Eng Literature Spc 235..... 3	Spc 235 English Literature ..... 3
Mth..... 3	Mth..... 3
Sophomore American History..... 3	Gov 232 Introduction to American Government II ... 3
Gov 231 Introduction to American Government I.... 3	Sophomore American History..... 3
Com 2384 Evolution of Motion Pictures..... 3	Major Elective..... 3
PE Activity..... 1	PE Activity..... 1
16	16

**Third Year**

First Semester	Second Semester
Com 234 Introduction to Broadcasting..... 3	Com 4383 Print Advertising..... 3
Foundation elective..... 3	Foundation elective..... 3
Com 431 Laws and Ethics of the Mass Media..... 3	Major electives..... 6
Eng 4326 Expository Writing or Com 231 News Reporting (R)..... 3	Foundation elective..... 3
Spc 434/332/439..... 3	
15	15

**Fourth Year**

First Semester	Second Semester
Foundation elective..... 6	Second Semester
Major elective..... 3	Major electives..... 7
General electives..... 3	General electives..... 8
Com 3383 Broadcast Advertising..... 3	
15	15
Total.....	124

**Plan IV** (For those not desiring teacher certification or the mass communication degree). It is designed primarily for those wishing concentrations in speech communication, theater or speech and hearing therapy, for purposes other than teacher certification. The plan provides a maximum of flexibility in the composition of the courses for the major. The first and second years of Plan IV are essentially the same as Plan I. It requires 124 semester hours. It may serve as preprofessional training for the field of law. It requires 120 semester hours exclusive of the required physical education courses/marching band/MS.

**Bachelor of Arts —Speech Communication**

Same as any of the above programs except for the completion of the course numbered 232 in a foreign language, six semester hours of literature, and an eighteen semester hour minor including six advanced hours. The B.A. is not available in Communication, Plan III.

**Mass Communication Courses (Com)**

131	<b>Introduction to Mass Communication</b>	3:3:0
	Study of mass communication, analysis of media conglomerates, advertising, popular culture, and media-audience interaction.	
133	<b>News Writing</b>	3:2:3
	A study of the principles of news writing, with emphasis upon concise, accurate, objective writing. Proficiency in typewriting is required.	
231	<b>News Reporting</b>	3:2:3
	A basic course in gathering material and writing news stories for publication. Proficiency in typewriting is required. Course may be repeated for a maximum of six semester hours. <i>Prerequisite: Com 133 with a grade of C or higher.</i>	
232	<b>Editing and Copyreading</b>	3:2:3
	The development and use of printing, type recognition, type harmony, preparing editorial material, writing headlines and correcting copy. <i>Prerequisite: Com 231.</i>	
234	<b>Introduction to Broadcasting</b>	3:2:3
	A general introduction to the field of broadcasting, including a study of station and network organization and control by law and societal forces.	

2341	<b>Principles of Broadcast Production</b>	3:2:3
	Training in radio and television basic production with emphasis on oper campus broadcast facilities. Different formats will be considered. Practical experience in announcing, planning, production of programs. <i>Prerequisite: Com 234 or consent of instructor.</i>	
2384	<b>Evolution of Motion Pictures</b>	3:3:0
	Development of American film as an art form, industry, mass medium and "language."	
2385	<b>Film Genre</b>	3:3:0
	Familiar entertainment film types: science fiction, horror, gangster, and Westerns are analyzed for formal properties and ideological content. May be repeated when units vary.	
3234	<b>Practicum in Communication</b>	2:0:6
	Laboratory experience in an actual setting. Assignment may be made for specific on the job experience in newspaper offices, radio stations, television stations, advertising agencies, etc. May be repeated for a total of eight semester hours.	
333	<b>Advanced Journalism Writing</b>	3:2:3
	Writing focusing on skills required for sports, human interest, feature, editorial and specific subject area columns. <i>Prerequisite: Com 231 or equivalent.</i>	
335	<b>Magazine Production</b>	3:2:3
	Analysis and participation in all phases of magazine production.	
336	<b>Film Directors</b>	3:2:3
	Collected film works of a director analyzed through reading and screening. May be repeated when unit changes.	
337	<b>Audio Production</b>	3:2:3
	Principles and practice of introductory professional audio recording and editing.	
338	<b>Television Production</b>	3:2:3
	Activities in writing, acting, directing, producing, announcing and engineering various types of television productions.	
3381	<b>Photo Journalism</b>	3:2:3
	Principles of photography applied to the specific area of photojournalism. No experience is required, but each student must have access to a 35 mm adjustable camera.	
3382	<b>Cinematography</b>	3:2:3
	An introduction to the basic techniques involved in the use of the motion picture as a means of communication. A thorough knowledge of basic photographic theory will be expected. All aspects of motion picture production will be covered.	
3383	<b>Broadcast Advertising</b>	3:3:0
	Broadcast advertising theory and techniques in the total marketing mix.	
430	<b>Communication Problems and Projects</b>	3:3:3
	Problems analyzed and evaluated under individual guidance of faculty. Course may be repeated for credit three times.	
431	<b>Laws and Ethics of the Mass Media</b>	3:3:0
	A study of the responsibilities of the media, including ethical responsibilities to news sources, persons in the news, readers and employers and legal rights and restrictions.	
432	<b>History and Principles of American Journalism</b>	3:3:0
	The growth of modern newspapers, with emphasis on important persons in American journalism and the influence of their publications on the history of the United States.	
433	<b>Mass Communication and Society</b>	3:3:0
	Analysis of impact of mass communication on society.	
438	<b>Broadcast News</b>	3:2:3
	Study and practice in developing news for broadcasting. Various types of news material, including the documentary, its procurement and presentation. <i>Prerequisite: Com 234 or consent of instructor.</i>	
4383	<b>Print Advertising</b>	3:2:3
	A study of advertising, including copy writing, type selection, layout and design for print media.	
439	<b>Television Field Production</b>	3:3:3
	Principles and practices of television field production, editing and post production.	
4391	<b>Advanced Television Production</b>	3:2:3
	Seeks to develop professional competence in television production of news, commercials, documentaries and special program.	

## Speech Communication Courses (SpC)

1301	<b>Introduction to Speech, Hearing and Language Disorders</b>	3:3:0
	Overview of the profession of speech pathology, audiology and deaf education.	
1302	<b>Phonology</b>	3:3:0
	Descriptive phonetics, phonetic alphabet systems.	



1303	<b>Speech, Hearing and Voice Science</b> Introduction to the scientific variables of speech, hearing, and voice.	3:3:0
131	<b>Public Speaking</b> Principles and practice of public speaking.	3:3:0
211	<b>Parliamentary Procedure</b> Theory and practice in conducting a business meeting through standard parliamentary procedures.	1:1:0
222	<b>Forensic Activity</b> Participation in forensics and co-curricular speaking events including campus, community and intercollegiate occasions. May be repeated for a maximum of eight semester hours credit. <i>Prerequisite: Permission of instructor required.</i>	2:0:4
230	<b>Articulation Disorders</b> Prevention, assessment, etiology and remediation of articulation disorders.	3:3:0
2301	<b>Introduction to Speech Pathology</b> Etiology and treatment of speech disorders with emphasis on functional disorders.	3:3:0
2302	<b>Introduction to Deaf Education</b> Historical and current considerations in the deaf education profession.	3:3:0
2303	<b>Introduction to Audiology</b> Anatomy of ear, physics of sound, test modes and procedures.	3:3:0
232	<b>Interpersonal Communication</b> Principles and practices of interpersonal communication in various settings.	3:3:0
233	<b>Advanced Public Speaking</b> Principles and practice in special occasion speaking.	3:3:0
235	<b>Oral Interpretation of Literature</b> Instruction and practice in the principles of speech applied to performance in the interpretation of prose and poetry.	3:3:0
238	<b>Oral Controversy</b> A study of evidence and reasoning and a critique of them as reflected in current public affairs.	3:3:0
239	<b>Language for the Deaf</b> Survey of systems of teaching language development in nursery and preschool age children.	3:3:0
3301	<b>Research and Literature in Speech and Hearing</b> Literature and research methods specific to speech and hearing.	3:3:0
3302	<b>Language Development and Language Disorders</b> Normal language development, language assessment, language, intervention.	3:3:0
3303	<b>Introduction to Manual Communication Systems</b> Introduction to fingerspelling and the language of signs.	3:3:0
331	<b>Business and Professional Speech</b> Application of the fundamentals of speech production to the needs of the professional person.	3:3:0
332	<b>Group Methods and Discussion</b> Communication theory of group processes. Practice in group problem solving.	3:3:0
333	<b>Interpretation of Children's Literature</b> Study of materials for different ages of children; sources of program material, practice in adapting material into programs; practice in presenting program in laboratory and in nearby schools, hospitals and homes.	3:3:0
334	<b>Interviewing</b> Theory and practice in the several types of interviews current in the United States.	3:3:0
3391	<b>Speech Reading, Auditory Training and Amplification Devices</b> A survey of the literature, theory, and practice in rehabilitation of the hearing impaired.	3:3:0
3392	<b>Speech for the Deaf</b> Methods of developing speech in the young deaf child.	3:3:0
430	<b>Problems and Projects in Speech</b> These problems are discussed and analyzed through discussion and research. Each student elects a project or problem on which he/she does extensive research and presents a report to the department faculty. Course may be repeated three times for credit. Permission of Instructor Required	3:A:0
4301	<b>Advanced Speech Pathology</b> Advanced speech pathology: introduction to specific communication disorders, diagnostic procedures and therapy programs.	3:3:0
4302	<b>Advanced Audiology</b> Hearing evaluation procedures, clinical evaluation techniques and instrumentation.	3:3:0
4303	<b>Clinical Practicum</b> Introduction to clinical practice in speech pathology, audiology and deaf education. This course may be repeated for clinical clock hours accumulation.	3:0:9
4304	<b>Intermediate Manual Communication</b> Intermediate skills course in the language of sign.	3:3:0

432	<b>Public Relations</b>	3:3:0
	Theory, principles, and practice of public relations.	
4321	<b>Advanced Language for the Deaf</b>	3:3:0
	Principles and techniques for systematic development of language from the first through the sixth grades.	
4322	<b>Advanced Speech for the Deaf</b>	3:3:0
	The study for problems of speech development and the maintenance of intelligible speech.	
4324	<b>Non Verbal Communication</b>	3:3:0
	Theory, research, analysis and practice in non verbal communication.	
433	<b>Organizational Communication</b>	3:3:0
	Theory, principles, and practice of communication within organizations.	
434	<b>Persuasion</b>	3:3:0
	The psychological and emotional principles involved in influencing individuals and groups. An analysis and practice with the speech devices and techniques in effectively motivating audience reaction.	
4341	<b>Advanced Interviewing</b>	3:3:0
	Study of modern communication and related research as applied in business and professional interviews.	
4381	<b>Rhetoric of Social Movements</b>	3:3:0
	Analysis of the rhetoric of selected social movements in American history.	
439	<b>Rhetoric and Public Address</b>	3:3:0
	A study and analysis of some of the world's great speeches with application of the principles of original speeches of special types.	

## Theater Courses (The)

131	<b>Introduction to Theater</b>	3:2:3
	A general survey of the major fields of theater arts. For students who have a limited theatrical experience or knowledge. Emphasis on the various types and styles of plays, knowledge of the functions of the actor, director, costumer, scene designer, light designer and other elements of theater production.	
1311	<b>Voice and Diction</b>	3:3:0
	Vocal development, vocabulary building and pronunciation Skills through systematic drills.	
132	<b>Auditioning</b>	3:2:3
	Principles of preparation and execution of effective auditioning for acting roles.	
133	<b>Stage Movement</b>	3:2:3
	Principles and practices of bodily movement on stage.	
135	<b>Children's Theater</b>	3:2:3
	Instruction and practice in the beginning principles of theater as applied to plays for children's audiences.	
137	<b>Elements of Acting</b>	3:2:3
	Introductory principles and practice for acting.	
210	<b>Theater Practicum</b>	1:0:3
	Laboratory instruction in production techniques required in the area of scenery, lighting, costumes and other technical areas. It may be repeated three times for credit of four hours.	
2260	<b>Musical Comedy</b>	2:0:6
	A laboratory course providing background study and practical work in the field of musical comedy, including participation in the presentation of a full production. Open by audition or by consent of the instructor to students from all departments who are interested in acting or technical work in the theater, especially as applied to musical comedy. May be repeated for credit up to six hours.	
231	<b>Beginning Stagecraft</b>	3:2:3
	Basic course in technical theater. Emphasis on methods of construction and handling of scenery, construction and care of stage properties, basic knowledge of lighting units and their use on the stage nomenclature of the crafts of theater. Laboratory: 3 hours and participation in department productions.	
232	<b>Make Up</b>	3:2:3
	Principles and practices of make up for a performance.	
235	<b>Directing</b>	3:2:3
	Principles and practices of stage directing.	
237	<b>Acting</b>	3:2:3
	Detailed study of characterization and styles of acting through class assignments of individuals and group scenes. Course may be taken twice for credit. Laboratory: 3 hours and participation in department productions.	
239	<b>Dialects</b>	3:2:3
	Instruction and workshop for mastering dialects used on stage, or for impersonating cultures as speakers, radio or TV personalities.	
	<i>Prerequisite: Speech 1302 or 1311.</i>	
331	<b>Scene and Light Design</b>	3:2:3
	Principles and practices of coordinated planning for scenery and lighting design for theater.	
332	<b>Cost Design and Construction</b>	3:2:3
	Principles and practices of costume design and construction for the stage.	

334	<b>Advanced Stagecraft</b>	3:2:3
	Advanced principle and practice in stagecraft including scene construction, lighting, sight lines, among others.	
335	<b>Directing</b>	3:2:3
	To give the student a background knowledge in directing from the viewpoint of the interpreter, planner, organizer, businessperson, technician, actor, psychologist and artist with specific problems in directing scenes from plays.	
336	<b>Creative Dramatics</b>	3:3:0
	Instruction in the methods of introducing creative projects related to the development of creative play-making in the home, community and school.	
337	<b>Advanced Acting</b>	3:2:3
	Advanced principles and practice of acting for performance.	
338	<b>Camera Performance</b>	3:2:3
	Principles and practices of acting before TV and film Cameras	
3360	<b>Advanced Children's Theater</b>	3:2:3
	Instruction and practice in advanced principles of theater as applied to plays for children's audiences.	
430	<b>Creative Communication</b>	3:3:0
	This is a process oriented approach to creative learning through creative communications. It is of special value to the communication of information in or out of the classroom at any age level.	
431	<b>Problems and Projects in Theater</b>	3:A:0
	Students will perform activities in one of the following areas: acting, directing, producing, designing and constructing costumes and stage settings for the school theater. <i>May be repeated three times for credit.</i>	
432	<b>Advanced Make Up</b>	3:2:3
	Principles and practices of handling make up problems.	
4371	<b>Reader's Theater</b>	3:3:0
	Exploration of literature through group performance, theory and techniques for performing all types of literature; script creation; staging and directing.	
434	<b>Advanced Stagecraft</b>	3:3:3
	Advanced techniques in theater crafts. Emphasis on special problems in building and handling scenery, technical plotting of scenery, special lighting problems and physical requirements of a theater.	
435	<b>Advanced Directing</b>	3:2:3
	Principles and practice of play directing for upper level academic theater student.	
436	<b>History of Theater</b>	3:3:0
	A survey of theater from 5th Century B.C. to the present day, with emphasis on methods and styles of presentation.	
437	<b>Directing Secondary School Speech and Theater Activities</b>	
	Principles involved in extracurricular speech and theater activities. Practical experience with workshop students constitutes a part of this course.	
438	<b>Theater Management and Public Relations</b>	3:3:3
	Instruction in the workings of theater as an organization within the community and business world.	
439	<b>Summer Repetory Theater</b>	3:2:3
	Participation in a variety of shows during the summer season to enable the student to work in a professional repertory atmosphere.	

## Department of Music

Department Head: George L. Parks

106 Music Building

Professors: Carlucci, Kaszynski, Parks

Associate Professors: Collier, Holmes, LeBlanc, Shmider, Truncala

Assistant Professors: Barrett, Culbertson, Simmons

Instructors: Babin, Berthiaume, Dyess, Johnson, Ornelas, Parks

Adjunct Instructors: Morehouse, Booker, Boone, Graham, Rives

The degrees of Bachelor of Music and Bachelor of Science Music Major (voice, piano, theory and composition, or instrumental major) are granted under the following conditions:

1. Meet the basic requirements for all degree programs.
2. Complete one of the programs of study listed below.
3. Pass a department qualifying examination given by the music faculty before the end of the first semester of the senior year. Junior level music history and music theory must be taken before the oral examination.

4. All students must continue to take secondary piano for as many consecutive semesters as are required for the completion of the barrier. Application for the piano barrier exam may be made during any semester of the student's enrollment except when otherwise specified.
5. Participate in student recitals as recommended by the department.
6. For graduation, all music majors must present a recital during the senior year as recommended by the department head.
7. All students, including transfers, must show adequate proficiency in their areas of specialization, as determined by the music faculty.
8. Auditions are required for junior level standings in the Bachelor of Music degree program.
9. All music majors will be required to take Humanities 132.

## Recommended Programs of Study

### Bachelor of Music — Composition

#### First Year

First Semester	Second Semester
AM Major Instrument ..... 2	AM Major Instrument ..... 2
MLb Band, Choir, Orchestra ..... 1	MLb Band, Choir, Orchestra ..... 1
MTy 132 Elementary Harmony ..... 3	MTy 133 Elementary Harmony ..... 3
MLt 121 Music Literature ..... 2	MLt 122 Music Literature ..... 2
English (Composition) ..... 3	English (Composition) ..... 3
PE ..... 1	PE ..... 1
AM Elective (must be piano with the exception of piano and organ majors) ..... 1	AM Elective (must be piano with the exception of piano and organ majors) ..... 1
Elective (Math, Science) ..... 4	Elective (Math, Science) ..... 4
MLb 114 Repertoire & Pedagogy ..... 1	MLb 114 Repertoire & Pedagogy ..... 1
18	18

#### Second Year

First Semester	Second Semester
AM 2283 ..... 2	AM 2284 ..... 2
MLb Band, Choir, Orchestra ..... 1	MLb Band, Choir, Orchestra ..... 1
MTy 232 Advanced Harmony ..... 3	MTy 233 Advanced Harmony ..... 3
English Literature ..... 3	*Elective (non-music) ..... 3
Sophomore American History ..... 3	Sophomore American History ..... 3
Gov 231 Introduction to American Government I ..... 3	Gov 232 Introduction to American Government II ..... 3
PE ..... 1	PE ..... 1
MLb 114 Repertoire & Pedagogy ..... 1	MLb 114 Repertoire & Pedagogy ..... 1
17	17

#### Third Year

First Semester	Second Semester
AM 3483 ..... 4	AM 3484 ..... 4
MLb Band, Choir, Orchestra ..... 1	MLb Band, Choir, Orchestra ..... 1
MTy 321 Counterpoint ..... 2	MTy 322 Counterpoint ..... 2
MLt 333 Music History ..... 3	MLt 334 Music History ..... 3
MLb 114 Repertoire & Pedagogy ..... 1	MLb 114 Repertoire & Pedagogy ..... 1
Elective (Math, Science) ..... 3	Elective (Math, Science) ..... 3
Hum 132 Appreciation of Theater and Art ..... 3	Elective non-music ..... 3
17	17

#### Fourth Year

First Semester	Second Semester
AM 4483 ..... 4	AM 4484 ..... 4
MLb Band, Choir, Orchestra ..... 1	MLb Band, Choir, Orchestra ..... 1
MTy 421 Form and Analysis ..... 2	MTy 422 Orchestration ..... 2
MLt 336 or MLt 337 ..... 3	MEd 337 or MEd 338 ..... 3
MTy 425 Band Arranging ..... 2	MLb 114 Repertoire & Pedagogy ..... 1
Music Elective ..... 2	Music Elective ..... 2
MLb 114 Repertoire & Pedagogy ..... 1	
15	13
Total ..... 132	

\*Must be 3 semester hours of literature, technical report writing, speech communication or foreign language.

# Instrumental (Strings)

## First Year

First Semester	
AM Major Instrument .....	2
MLb 114 Repertoire & Pedagogy .....	1
AM 1143 .....	1
MTy 132 Elementary Harmony .....	3
MLb 122 Orchestra .....	2
MLt 121 Music Literature .....	2
English (Composition) .....	3
PE .....	1
Elective (Math, Science) .....	4
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	19

Second Semester	
AM Major Instrument .....	2
MLb 114 Repertoire & Pedagogy .....	1
AM 1143 .....	1
MTy 133 Elementary Harmony .....	3
MLb 122 Orchestra .....	2
MLt 122 Music Literature .....	2
English (Composition) .....	3
PE .....	1
Elective (Math, Science) .....	4
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	19

## Second Year

First Semester	
AM Major Instrument .....	2
MLb 114 Repertoire & Pedagogy .....	1
MLb 423 Chamber Music Ensemble .....	1
MTy 232 Advanced Harmony .....	3
MLb 122 Orchestra .....	2
Sophomore American History .....	3
Elective (non-music) .....	3
PE .....	1
English Literature .....	3
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	19

Second Semester	
AM Major Instrument .....	2
MLb 114 Repertoire & Pedagogy .....	1
MLb 423 Chamber Music Ensemble .....	1
MTy 233 Advanced Harmony .....	3
MLb 122 Orchestra .....	2
Sophomore American History .....	3
Hum 132 Appreciation of Theater and Art .....	3
PE .....	1
*Elective (Non-music) .....	3
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	19

## Third Year

First Semester	
AM Major Instrument .....	4
MLb 114 Repertoire & Pedagogy .....	1
MLb 122 Orchestra .....	2
MLt 333 Music History .....	3
Gov 231 Introduction to American Government I .....	3
Elective (Math, Science) .....	3
MTy 321 Counterpoint .....	2
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	18

Second Semester	
AM Major Instrument .....	4
MLb 114 Repertoire & Pedagogy .....	1
MLb 122 Orchestra .....	2
MLt 334 Music History .....	3
Gov 232 Introduction to American Government II .....	3
Elective (Math, Science) .....	3
MTy 322 Counterpoint .....	2
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	18

## Fourth Year

First Semester	
AM Major Instrument .....	4
MLb 114 Repertoire & Pedagogy .....	1
MLb 122 Orchestra .....	2
MLt 337 Instrumental Literature .....	3
MTy 421 Form and Analysis .....	2
Chamber Music Elective .....	1
Elective (non-music) .....	2
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	15

Second Semester	
AM Major Instrument .....	4
MLb 114 Repertoire & Pedagogy .....	1
MLb 122 Orchestra .....	2
MEd 338 Instrumental Conducting .....	3
MTy 422 Orchestration .....	2
Chamber Music Elective .....	1
Elective (non-music) .....	2
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	15

Total.....142

\*Must be 3 semester hours of literature, technical report writing, speech communication or foreign language.

# Instrumental (Wind, Percussion, or Jazz Studies)

## First Year

First Semester	
AM Major Instrument .....	2
MLb 114 Repertoire & Pedagogy or MLb 117 Dance Band .....	1
AM 1143 .....	1
MTy 132 Elementary Harmony .....	3
MLb 124 Marching Band or PE .....	2
MLt 121 Music Literature .....	2
Music Elective or MLb 115 Jazz Combo .....	1
English (Composition) .....	3
Elective (Math, Science) or Math and MLb 113 Jazz Improvization .....	4
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	19

Second Semester	
AM Major Instrument .....	2
MLb 114 Repertoire & Pedagogy or MLb 117 Dance Band .....	1
AM 1143 .....	1
MTy 133 Elementary Harmony .....	3
MLb 125 Symphonic Band .....	2
MLt 122 Music Literature .....	2
Music Elective or MLb 115 Jazz Combo .....	1
English (Composition) .....	3
Elective (Math, Science) or Math and MLb 113 Jazz Improvization .....	4
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	19

## Second Year

First Semester	Second Semester
AM Major Instrument ..... 2	AM Major Instrument ..... 2
MLb 114 Repertoire & Pedagogy or MLb 117 Dance Band ..... 1	MLb 114 Repertoire & Pedagogy or MLb 117 Dance Band ..... 1
MTy 232 Advanced Harmony ..... 3	MTy 233 Advanced Harmony ..... 3
Music Elective or MLb 115 Jazz Combo ..... 1	Music Elective or MLb 115 Jazz Combo ..... 1
MLb 124 Marching Band or PE ..... 2	MLb 125 Symphonic Band ..... 2
Sophomore American History ..... 3	Sophomore American History ..... 3
English (Literature) ..... 3	*Elective (non-music) ..... 3
Elective (non-music) or MLb 111, 113 ..... 2	Elective (non-music) or MLb 111, 113 ..... 2
17	17

## Third Year

First Semester	Second Semester
AM Major Instrument (2 hours for jazz studies) ..... 4	AM Major Instrument (2 hours for jazz studies and MTy 323 Jazz Arranging) ..... 4
MLb 114 Repertoire & Pedagogy or MLb 117 Dance Band ..... 1	MLb 114 Repertoire & Pedagogy or MLb 117 Dance Band ..... 1
MLt 333 Music History ..... 3	MLt 334 Music History ..... 3
MLb 423 Chamber Music Ensemble or MLb 115 Jazz Combo ..... 1	MLb 423 Chamber Music Ensemble or MLb 115 Jazz Combo ..... 1
MTy 321 Counterpoint ..... 2	MTy 322 Counterpoint ..... 2
MLb 124 Marching Band or PE ..... 2	MLb 125 Symphonic Band ..... 2
Gov 231 Introduction to American Government I ..... 3	Gov 232 Introduction to American Government II ..... 3
Elective (Math, Science) ..... 3	Elective (Math, Science) ..... 3
19	19

## Fourth Year

First Semester	Second Semester
AM Major Instrument (2 hours for jazz studies and MLb 115 Jazz Combo) ..... 4	AM Major Instrument (2 hours for jazz studies and MLb 115 Jazz Combo) ..... 4
MLb 114 Repertoire & Pedagogy or MLb 117 Dance Band ..... 1	MLb 114 Repertoire & Pedagogy or MLb 117 Dance Band ..... 1
MLt 337 Instrumental Literature or MEd Recording Techniques ..... 3	MEd 338 Instrumental Conducting or MEd 431 Jazz Electronic Music ..... 3
MTy 421 Form and Analysis ..... 2	MTy 422 or 425 ..... 2
MLb 124 Marching Band or PE ..... 2	MLb 125 Symphonic Band ..... 2
MEd 333 High School Stage Band ..... 3	Elective (non-music) ..... 3
MLt 330 Jazz History ..... 3	
18	15
Total ..... 143	143

\*Must be 3 semester hours of literature, technical report writing, speech communication or foreign language.

## Piano And/Or Organ

### First Year

First Semester	Second Semester
AM Major Instrument ..... 2	AM Major Instrument ..... 2
MLb 114 Repertoire & Pedagogy ..... 1	MLb 114 Repertoire & Pedagogy ..... 1
Major Performing Ensemble ..... 1	Major Performing Ensemble ..... 1
AM Elective ..... 1	AM Elective ..... 1
MLt 121 Music Literature ..... 2	MLt 122 Music Literature ..... 2
MTy 132 Elementary Harmony ..... 3	MTy 133 Elementary Harmony ..... 3
English (Composition) ..... 3	English (Composition) ..... 3
PE ..... 1	PE ..... 1
Elective (Math, Science) ..... 4	Elective (Math, Science) ..... 4
18	18

**Second Year**

First Semester	
AM Major Instrument .....	2
MLb 114 Repertoire & Pedagogy .....	1
Major Performing Ensemble .....	1
MLb 423 Chamber Music Ensemble .....	1
MTy 232 Advanced Harmony .....	3
English Literature .....	3
Sophomore American History .....	3
Elective (non-music) .....	3
PE .....	1
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	18

Second Semester	
AM Major Instrument .....	2
MLb 114 Repertoire & Pedagogy .....	1
Major Performing Ensemble .....	1
MLb 423 Chamber Music Ensemble .....	1
MTy 233 Advanced Harmony .....	3
*Elective (non-music) .....	3
Sophomore American History .....	3
Elective (non-music) .....	3
PE .....	1
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	18

**Third Year**

First Semester	
AM Major Instrument .....	4
MLb 114 Repertoire & Pedagogy .....	1
Major Performing Ensemble .....	1
MLb 423 Chamber Music Ensemble .....	1
MTy 321 Counterpoint .....	2
MLt 333 Music History .....	3
Gov 231 Introduction to American Government I .....	3
Elective (Math, Science) .....	3
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	18

Second Semester	
AM Major Instrument .....	4
MLb 114 Repertoire & Pedagogy .....	1
Major Performing Ensemble .....	1
MLb 423 Chamber Music Ensemble .....	1
MTy 322 Counterpoint .....	2
MLt 334 Music History .....	3
Gov 232 Introduction to American Government II .....	3
Elective (Math, Science) .....	3
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	18

**Fourth Year**

First Semester	
AM Major Instrument .....	4
MLb 114 Repertoire & Pedagogy .....	1
Major Performing Ensemble .....	1
MTy 421 Form and Analysis .....	2
MLt 336 or MLt 337 .....	3
Hum 132 Appreciation of Theater and Art .....	3
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	14
Total .....	136

Second Semester	
AM Major Instrument .....	4
MLb 114 Repertoire & Pedagogy .....	1
Major Performing Ensemble .....	1
MTy 422 Orchestration .....	2
MEd 337 or MEd 338 .....	3
Elective (non-music) .....	3
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	14
Total .....	136

\*Must be 3 semester hours of literature, technical report writing, speech communication or foreign language.

**Vocal**

**First Year**

First Semester	
AM 1281 .....	2
MLb 114 Repertoire & Pedagogy .....	1
AM 1143 .....	1
MLb 1104 Grand Chorus .....	1
MTy 132 Elementary Harmony .....	3
MLt 121 Music Literature .....	2
English (Composition) .....	3
Italian .....	3
PE .....	1
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	17

Second Semester	
AM 1282 .....	2
MLb 114 Repertoire & Pedagogy .....	1
AM 1143 .....	1
MLb 1104 Grand Chorus .....	1
MTy 133 Elementary Harmony .....	3
MLt 122 Music Literature .....	2
English (Composition) .....	3
German .....	3
PE .....	1
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	17

**Second Year**

First Semester	
AM 2281 .....	2
MLb 114 Repertoire & Pedagogy .....	1
MLb 1104 Grand Chorus .....	1
MTy 232 Advanced Harmony .....	3
Spc 1311 Voice, Diction and Vocabulary .....	3
French .....	3
Sophomore American History .....	3
PE .....	1
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	17

Second Semester	
AM 2282 .....	2
MLb 114 Repertoire & Pedagogy .....	1
MLb 1104 Grand Chorus .....	1
MTy 233 Advanced Harmony .....	3
English Literature .....	3
Elective (Math, Science) .....	3
Sophomore American History .....	3
PE .....	1
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	17

## Third Year

First Semester		Second Semester	
AM 3481 .....	4	AM 3482 .....	4
MLb 114 Repertoire & Pedagogy .....	1	MLb 114 Repertoire & Pedagogy .....	1
MLb 1104 Grand Chorus .....	1	MLb 1104 Grand Chorus .....	1
MLb 210 Opera .....	1	MLb 210 Opera .....	1
MTy 321 Counterpoint .....	2	MTy 322 Counterpoint .....	2
MLt 336 Choral Literature .....	3	MEd 337 Choral Conducting .....	3
MLt 333 Music History .....	3	MLt 334 Music History .....	3
Science (laboratory) .....	4	Science (laboratory) .....	4
	19		19

## Fourth Year

First Semester		Second Semester	
AM 4481 .....	4	AM 4482 .....	4
MLb 114 Repertoire & Pedagogy .....	1	MLb 114 Repertoire & Pedagogy .....	1
MLb 1104 Grand Chorus .....	1	MLb 1104 Grand Chorus .....	1
MLb 210 Opera .....	1	MLb 210 Opera .....	1
MTy 421 Form and Analysis .....	2	MTy 422 Orchestration .....	2
Gov 231 Introduction to American Government I ...	3	Gov 232 Introduction to American Government II ...	3
Hum 132 Appreciation of Theater and Art .....	3	Elective (Math, Science) .....	3
	15		15
Total .....	136		136

## Bachelor of Music in Music Education (Winds, Brass, Percussion)

(Qualifies for teacher certification music, all-levels)

## First Year

First Semester		Second Semester	
AM Major Instrument .....	2	AM Major Instrument .....	2
MLb Marching Band or PE .....	2	MLb 125 Symphonic Band .....	2
AM 1143 .....	1	AM 1143 .....	1
Sophomore American History .....	3	Sophomore American History .....	3
English Composition .....	3	Eng (Composition) .....	3
Mth 1334 College Algebra .....	3	Mth 134 Mathematics for Business Applications .....	3
MTy 132 Elementary Harmony .....	3	MTy 133 Elementary Harmony .....	3
MLt 121 Music Literature .....	2	MLt 122 Music Literature .....	2
	19		19

## Second Year

First Semester		Second Semester	
AM Major Instrument .....	2	AM Major Instrument .....	2
MLb Marching Band or PE .....	2	MLb 125 Symphonic Band .....	2
AM 1143 .....	1	AM 1143 .....	1
Gov 231 Introduction to American Government I ...	3	Gov 232 Introduction to American Government II ...	3
Science (laboratory) .....	4	Science (laboratory) .....	4
MTy 232 Advanced Harmony .....	3	MTy 233 Advanced Harmony .....	3
English Literature .....	3	English Literature .....	3
	18		18

## Third Year

First Semester		Second Semester	
AM Major Instrument .....	2	AM Major Instrument .....	2
MLb Marching Band or PE .....	2	MLb 125 Symphonic Band .....	2
MEd 311, 313 .....	2	MEd 312, 314, 411 .....	3
MEd 336 Instrumental Music .....	3	MEd 338 Instrumental Conducting .....	3
MLt 333 Music History .....	3	MLt 334 Music History .....	3
C&I 331, 332 .....	6	C&I 334 Child Development and Evaluation .....	3
MTy 321 Counterpoint .....	2	MTy 322 Counterpoint .....	2
	20		18



**Fourth Year**

First Semester		Second Semester	
AM Major Instrument .....	2	AM Major Instrument .....	2
MLb Marching Band or PE .....	2	MLb 125 Symphonic Band .....	2
C&I 438 Classroom Management Secondary .....	3	C&I 463 Student Teaching — Special .....	6
MTy 421 Form and Analysis .....	2	MTy 422 or 425 .....	2
MEd 412 Woodwinds .....	1	MEd 315, 317 .....	2
Elective (Foundation) .....	3		
Elective (Foundation) .....	3		
Hum 132 Appreciation of Theater and Art .....	3		
	19		14
Total Hours .....			145

The six hours of foundation electives must be chosen from two different foundation groups, and if marching band is taken for PE credit, an additional non-music elective must be taken.

**Bachelor of Music in Music Education(Strings)**

(Qualifies for teacher certification music, all-levels)

**First Year**

First Semester		Second Semester	
AM Major Instrument .....	2	AM Major Instrument .....	2
MLb 122 Orchestra .....	2	MLb 122 Orchestra .....	2
AM 1143 .....	1	AM 1143 .....	1
Sophomore American History .....	3	Sophomore American History .....	3
Eng (Composition) .....	3	Eng (Composition) .....	3
MTy 132 Elementary Harmony .....	3	MTy 133 Elementary Harmony .....	3
MLt 121 Music Literature .....	2	MLt 122 Music Literature .....	2
PE .....	1	PE .....	1
Mth 1334 College Algebra .....	3	Mth 134 Mathematics for Business Applications .....	3
	20		20

**Second Year**

First Semester		Second Semester	
AM Major Instrument .....	2	AM Major Instrument .....	2
MLb 122 Orchestra .....	2	MLb 122 Orchestra .....	2
Gov 231 Introduction to American Government I .....	4	Gov 232 Introduction to American Government II .....	4
Science (Laboratory) .....	4	Science (laboratory) .....	4
MTy 232 Advanced Harmony .....	3	MTy 233 Advanced Harmony .....	3
PE .....	1	PE .....	1
English Literature .....	3	English Literature .....	3
	18		18

**Third Year**

First Semester		Second Semester	
AM Major Instrument .....	2	AM Major Instrument .....	2
MLb 122 Orchestra .....	2	MLb 122 Orchestra .....	2
MEd 311 or 312 .....	1	MEd 313 or 314 .....	1
MEd 336 Instrumental Music .....	3	MEd 338 Instrumental Conducting .....	3
MLt 333 Music History .....	3	MLt 334 Music History .....	3
C&I 331, 332 .....	6	C&I 334 Child Development and Evaluation .....	3
MTy 321 Counterpoint .....	2	MTy 322 Counterpoint .....	2
	19	Hum 132 Appreciation of Theater and Art .....	3
			19

**Fourth Year**

First Semester		Second Semester	
AM Major Instrument .....	2	AM Major Instrument .....	2
MLb 122 Orchestra .....	2	MLb 122 Orchestra .....	2
C&I 438 Classroom Management Secondary .....	3	C&I 463 Student Teaching — Special .....	6
MTy 421 Form and Analysis .....	2	MTy 422 Orchestration .....	2
MEd 411 or 412 .....	1	MEd 315 Percussion .....	1
Elective (Foundation) .....	3		
Elective (Foundation) .....	3		
	16		13
Total Hours .....			143

The six hours of foundation electives must be chosen from two different foundation groups.

## Bachelor of Music in Music Education (Piano/Organ, Voice)

(Qualifies for teacher certification music, all-levels)

### First Year

First Semester	2	Second Semester	2
AM 1241 or 1281.....	2	AM 1242 or 1282.....	2
MLb 1104 Grand Chorus.....	1	MLb 1104 Grand Chorus.....	1
AM 1183 or 1143.....	1	AM 1184 or 1143.....	1
Sophomore American History.....	3	Sophomore American History.....	3
Eng (Composition).....	3	Eng (Composition).....	3
Mth 1334.....	3	Mth 134.....	3
MTy 132 Elementary Harmony.....	3	MTy 133 Elementary Harmony.....	3
MLt 121 Music Literature.....	2	MLt 122 Music Literature.....	2
PE.....	1	PE.....	1
	19		19

### Second Year

First Semester	2	Second Semester	2
AM 2241 or 2281.....	2	AM 2242 or 2282.....	2
MLb 1104 Grand Chorus.....	1	MLb 1104 Grand Chorus.....	1
AM 1183 or 1143.....	1	AM 1184 or 1143.....	1
Gov 231 Introduction to American Government I.....	3	Gov 232 Introduction to American Government II.....	3
Science (laboratory).....	4	Science (laboratory).....	4
PE.....	1	PE.....	1
MTy 232 Advanced Harmony.....	3	MTy 233 Advanced Harmony.....	3
MLb 210 Opera.....	1	MLb 210 Opera.....	1
English Literature.....	3	English Literature.....	3
	19		19

### Third Year

First Semester	2	Second Semester	2
AM 3241 or 3281.....	2	AM 3242 or 3282.....	2
MLb 1104 Grand Chorus.....	1	MLb 1104 Grand Chorus.....	1
MEd 331 Elementary Methods and Materials.....	3	MEd 332 Techniques and Materials.....	3
MEd 335 Choral Music.....	3	MEd 337 Choral Conducting.....	3
MLt 333 Music History.....	3	MLt 334 Music History.....	3
C&I 331, 332.....	6	C&I 334 Child Development and Evaluation.....	3
MTy 321 Counterpoint.....	2	MTy 322 Counterpoint.....	2
	20	Hum 132 Appreciation of Theater and Art.....	3
			20

### Fourth Year

First Semester	2	Second Semester	2
AM 4241 or 4281.....	2	AM 4242 or 4282.....	2
MLb 1104 Grand Chorus.....	1	MLb 1104 Grand Chorus.....	1
C&I 438 Classroom Management Secondary.....	3	C&I 463 Student Teaching — Special.....	6
MTy 421 Form and Analysis.....	2	MTy 422 Orchestration.....	2
MLb 210 Opera.....	1	MLb 210 Opera.....	1
Elective (Foundation).....	3		
Elective (Foundation).....	3		
	15		12

Total Hours..... 143

The six hours of foundation electives must be chosen from two different foundation groups. Organ majors will substitute organ for all piano. Piano/Organ majors may take band or orchestra, but must have at least four semesters of choir.

# Bachelor of Science — Music Major

(Qualifies for teacher certification music, all-levels)

## Instrumental Major

### First Year

First Semester	Second Semester
English (Composition) ..... 3	English (Composition) ..... 3
Mth 1334 College Algebra ..... 3	Mth 134 Mathematics for Business Applications ..... 3
AM Major Instrument ..... 2	AM Major Instrument ..... 2
AM 1143 ..... 1	AM 1143 ..... 1
MLt 121 Music Literature ..... 2	MLt 122 Music Literature ..... 2
MTy 132 Elementary Harmony ..... 3	MTy 133 Elementary Harmony ..... 3
MLb 124 Marching Band or PE ..... 2	MLb 125 Symphonic Band ..... 2
Science (Laboratory) ..... 4	Science (Laboratory) ..... 4
<u>20</u>	<u>20</u>

### Second Year

First Semester	Second Semester
English Literature ..... 3	English Literature ..... 3
Sophomore American History ..... 3	Sophomore American History ..... 3
Gov 231 Introduction to American Government I ..... 3	Gov 232 Introduction to American Government II ..... 3
AM Major Instrument ..... 2	AM Major Instrument ..... 2
MTy 232 Advanced Harmony ..... 3	MTy 233 Advanced Harmony ..... 3
Elective (Foundation) ..... 3	Elective (Foundation) ..... 3
MLb 124 Marching Band or PE ..... 2	MLb 125 Symphonic Band ..... 2
<u>19</u>	<u>19</u>

### Third Year

First Semester	Second Semester
C&I 331 Foundations of Education ..... 3	C&I 334 Child Development and Evaluation ..... 3
C&I 332 Educational Psychology ..... 3	AM Major Instrument ..... 2
AM Major Instrument ..... 2	MEd 312 Brass ..... 1
MEd 311 Brass ..... 1	MLt 334 Music History ..... 3
MLt 333 Music History ..... 3	MEd 338 Instrumental Conducting ..... 3
MEd 336 Instrumental Music ..... 3	MEd 315 Percussion ..... 1
MEd 317 Marching Methods ..... 1	MTy 322 Counterpoint ..... 2
MTy 321 Counterpoint ..... 2	MEd 313-314 ..... 2
MLb 124 Marching Band or PE ..... 2	MLb 125 Symphonic Band ..... 2
<u>20</u>	<u>19</u>

### Fourth Year

First Semester	Second Semester
C&I 438 Classroom Management Secondary ..... 3	C&I 463 ..... 6
MTy 421 Form and Analysis ..... 2	MTy 425 or 422 ..... 2
AM Major Instrument ..... 2	AM Major Instrument ..... 2
Elective (non-music) ..... 4	MLb 125 Symphonic Band ..... 2
MEd 411 Woodwinds ..... 1	MEd 412 Woodwinds ..... 1
MLb 124 Marching Band or PE ..... 2	
<u>14</u>	<u>13</u>

Total..... 144

The six elective hours must be chosen from two different academic foundation groups.

**Piano and Organ Major**

**First Year**

First Semester	
English (Composition) .....	3
PE .....	1
AM 1183 .....	1
AM 1241 .....	2
MLb Concert Choir or Orchestra .....	1
MLt 121 Music Literature .....	2
MTy 132 Elementary Harmony .....	3
Science (Laboratory) .....	4
	17

Second Semester	
English (Composition) .....	3
PE .....	1
AM 1184 .....	1
AM 1242 .....	2
MLb Concert Choir or Orchestra .....	1
MLt 122 Music Literature .....	2
MTy 133 Elementary Harmony .....	3
Science (Laboratory) .....	4
	17

**Second Year**

First Semester	
English Literature .....	3
Sophomore American History .....	3
PE .....	1
AM 2241 .....	2
MLb Concert Choir or Orchestra .....	1
MLt 213 Piano Pedagogy .....	1
Mth 1334 College Algebra .....	3
MTy 232 Advanced Harmony .....	3
	17

Second Semester	
English Literature .....	3
Sophomore American History .....	3
PE .....	1
AM 2242 .....	2
MLb Concert Choir or Orchestra .....	1
MLb 210 Opera .....	1
Mth 134 Mathematics for Business Applications .....	3
MTy 233 Advanced Harmony .....	3
	17

**Third Year**

First Semester	
C&I 331 Foundations of Education .....	3
C&I 332 Educational Psychology .....	3
AM 3241 .....	2
MEd 331 Elementary Methods and Materials .....	3
MEd 335 Choral Music .....	3
MLb Concert Choir or Orchestra .....	1
MLt 333 Music History .....	3
MTy 321 Counterpoint .....	2
	20

Second Semester	
C&I 334 Child Development and Evaluation .....	3
AM 3242 .....	2
MEd 332 Techniques and Materials .....	3
MEd 337 Choral Conducting .....	3
MLb Concert Choir or Orchestra .....	1
MLt 334 Music History .....	3
MTy 322 Counterpoint .....	2
Elective (Foundation) .....	3
	20

**Fourth Year**

First Semester	
C&I 438 Classroom Management Secondary .....	3
Gov 231 Introduction to American Government I .....	3
AM 4241 .....	2
MLb Concert Choir or Orchestra .....	1
Elective (Foundation) .....	3
MTy 421 Form and Analysis .....	2
	14

Second Semester	
C&I 463 .....	6
Gov 232 Introduction to American Government II .....	3
AM 4242 .....	2
MLb Concert Choir or Orchestra .....	1
MTy 422 Orchestration .....	2
	14

Total..... 138

The six elective hours must be chosen from two different academic foundation groups.

If the student is an organ major, substitute organ for all piano.

Piano or organ majors must take at least four semesters of their eight semesters of laboratory in choir.

**String Major**

**First Year**

First Semester	
English (Composition) .....	3
Mth 1334 College Algebra .....	3
Science (Laboratory) .....	4
MLt 121 Music Literature .....	2
MTy 132 Elementary Harmony .....	3
AM Major Instrument .....	2
MLb 122 Orchestra .....	2
PE .....	1
	20

Second Semester	
English (Composition) .....	3
Mth 134 Mathematics for Business Applications .....	3
Science (Laboratory) .....	4
MLt 122 Music Literature .....	2
MTy 133 Elementary Harmony .....	3
AM Major Instrument .....	2
MLb 122 Orchestra .....	2
PE .....	1
	20

**Second Year**

First Semester	
English Literature.....	3
Sophomore American History.....	3
Gov 231 Introduction to American Government I.....	3
MTy 232 Advanced Harmony.....	3
MED 313 or 314.....	1
AM Major Instrument.....	2
MLb 122 Orchestra.....	2
PE.....	1
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	18

Second Semester	
English Literature.....	3
Sophomore American History.....	3
Gov 232 Introduction to American Government II.....	3
MTy 233 Advanced Harmony.....	3
AM Violin or Cello.....	2
AM Major Instrument.....	2
MLb 122 Orchestra.....	2
PE.....	1
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	19

**Third Year**

First Semester	
C&I 331 Foundations of Education.....	3
C&I 332 Educational Psychology.....	3
MED 311 Brass.....	1
MED 336 Instrumental Music.....	3
MLt 333 Music History.....	3
MTy 321 Counterpoint.....	2
AM Major Instrument.....	2
MLb 122 Orchestra.....	2
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	19

Second Semester	
C&I 334 Child Development and Evaluation.....	3
MED 338 Instrumental Conducting.....	3
MLt 334 Music History.....	3
MTy 322 Counterpoint.....	2
AM Major Instrument.....	2
MLb 122 Orchestra.....	2
AM 1143.....	1
Elective (Music).....	1
<hr/>	
	17

**Fourth Year**

First Semester	
C&I 438 Classroom Management Secondary.....	3
MED 411 Woodwinds.....	1
MED 332 Techniques and Materials.....	3
MTy 421 Form and Analysis.....	2
AM Major Instrument.....	2
Elective (Foundation).....	3
MLb 122 Orchestra.....	2
AM 1143.....	1
<hr/>	
	17

Second Semester	
C&I 463.....	6
MTy 422 Orchestration.....	2
2399 AM Major Instrument.....	2
2400 MLb 122 Orchestra.....	2
2401 Elective (Foundation).....	3
<hr/>	
	15

Total..... 145

The six elective hours must be chosen from two different academic foundation groups.

**Theory and Composition Major**

**First Year**

First Semester	
English (Composition).....	3
Mth 1334 College Algebra.....	3
Science (Laboratory).....	4
AM Major Instrument.....	2
MTy 132 Elementary Harmony.....	3
MLt 121 Music Literature.....	2
MLb Band, Chorus, Orchestra.....	1
PE.....	1
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	19

Second Semester	
English (Composition).....	3
Mth 134 Mathematics for Business Applications.....	3
Science (Laboratory).....	4
AM Major Instrument.....	2
MTy 133 Elementary Harmony.....	3
MLt 122 Music Literature.....	2
MLb Band, Chorus, Orchestra.....	1
PE.....	1
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	19

**Second Year**

First Semester	
English Literature.....	3
Sophomore American History.....	3
Gov 231 Introduction to American Government I.....	3
AM 1241.....	2
MTy 232 Advanced Harmony.....	3
MLb Band, Chorus, Orchestra.....	1
PE.....	1
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	16

Second Semester	
English Literature.....	3
Sophomore American History.....	3
Gov 232 Introduction to American Government II.....	3
AM 1242.....	2
MTy 233 Advanced Harmony.....	3
MLb Band, Chorus, Orchestra.....	1
PE.....	1
Elective (non-music).....	3
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	19

**Third Year**

**First Semester**

C&I 331 Foundations of Education.....	3
C&I 332 Educational Psychology.....	3
AM 3283.....	2
MTy 321 Counterpoint.....	2
MEd 335 or 336.....	3
MLt 333 Music History.....	3
MEd 331 Elementary Methods and Materials.....	3
MLb Band, Chorus, Orchestra.....	1
	20

**Second Semester**

C&I 334 Child Development and Evaluation.....	3
AM 3284.....	2
MTy 322 Counterpoint.....	2
MEd 337 or 338.....	3
MLt 334 Music History.....	3
MEd 332 Techniques and Materials.....	3
MLb Band, Chorus, Orchestra.....	1
	17

**Fourth Year**

**First Semester**

C&I 438 Classroom Management Secondary.....	3
MTy 421 Form and Analysis.....	2
MTy 425 Band Arranging.....	2
AM 4283.....	2
Elective (Music).....	2
MLb Band, Chorus, Orchestra.....	1
	12

**Second Semester**

C&I 463.....	6
MTy 422 Orchestration.....	2
AM 4284.....	2
Elective (non-music).....	3
MLb Band, Chorus, Orchestra.....	1
	14

Total.....136

The six elective hours must be chosen from two different academic foundation groups. Theory and Composition majors certifying in instrumental music may elect six hours from Percussion 315, Brass 311, 312, Strings 313, 314 or Woodwinds 411, 412. Those certifying in vocal music will take Music Education 331 and 332.

**Vocal Major**

**First Year**

**First Semester**

English (Composition).....	3
PE.....	1
AM 1143.....	1
AM 1281.....	2
MLb 1104 Grand Chorus.....	1
MLt 121 Music Literature.....	2
MTy 132 Elementary Harmony.....	3
Science (Laboratory).....	4
	17

**Second Semester**

English (Composition).....	3
PE.....	1
AM 1143.....	1
AM 1282.....	2
MLb 1104 Grand Chorus.....	1
MLt 122 Music Literature.....	2
MTy 133 Elementary Harmony.....	3
Science (Laboratory).....	4
	17

**Second Year**

**First Semester**

English Literature.....	3
Sophomore American History.....	3
PE.....	1
AM 2281.....	2
MLb 1104 Grand Chorus.....	1
MLb 210 Opera.....	1
Mth 1334 College Algebra.....	3
MTy 232 Advanced Harmony.....	3
	17

**Second Semester**

English Literature.....	3
Sophomore American History.....	3
PE.....	1
AM 2282.....	2
MLb 1104 Grand Chorus.....	1
MLb 210 Opera.....	1
Mth 134 Mathematics for Business Applications.....	3
MTy 233 Advanced Harmony.....	3
	17

**Third Year**

**First Semester**

C&I 331 Foundations of Education.....	3
C&I 332 Educational Psychology.....	3
AM 3281.....	2
MEd 331 Elementary Methods and Materials.....	3
MEd 335 Choral Music.....	3
MLb 1104 Grand Chorus.....	1
MLt 333 Music History.....	3
MTy 321 Counterpoint.....	2
	20

**Second Semester**

C&I 334 Child Development and Evaluation.....	3
AM 3282.....	2
MEd 332 Techniques and Materials.....	3
MEd 337 Choral Conducting.....	3
MLb 1104 Grand Chorus.....	1
MLt 334 Music History.....	3
MTy 322 Counterpoint.....	2
Elective (Foundation).....	3
	20

Fourth Year

First Semester	Second Semester
C&I 438 Classroom Management Secondary ..... 3	C&I 463..... 6
Gov 231 Introduction to American Government I .... 3	Gov 232 Introduction to American Government II ... 3
AM 4281 ..... 2	AM 4282 ..... 2
MLb 1104 Grand Chorus..... 1	MLb 1104 Grand Chorus..... 1
MTy 421 Form and Analysis..... 2	MTy 422 Orchestration..... 2
Elective (Foundation)..... 3	
14	14
Total.....	136

The six elective hours must be chosen from two different academic foundation groups.

**Applied Music Courses (AM)**

- 1101 Beginning Band or Orchestral Instruments 1:1:0
- 1143 Secondary Piano 1:1:0
- 1183, 1184 Secondary Voice 1:1:0
- 1203, 1204, 2203, 2204, 3203, 3204, 4203, 4204 Bassoon 2:1½/24\*:0
- 3403, 3404, 4403, 4404 Bassoon 4:2\*\*\*:0
- 1211, 1212, 2211, 2212, 3211, 3212, 4211, 4212 Cello 2:1½/24\*:0
- 3411, 3412, 4411, 4412 Cello 4:2\*\*\*:0
- 1215, 1216, 2215, 2216, 3215, 3216, 4215, 4216 Clarinet 2:1½/24\*:0
- 3415, 3416, 4415, 4416 Clarinet 4:2\*\*\*:0
- 1217, 1218, 2217, 2218, 3217, 3218, 4217, 4218 Cornet-Trumpet 2:1½/24\*:0
- 3417, 3418, 4417, 4418 Cornet-Trumpet 4:2\*\*\*:0
- 1221, 1222, 2221, 2222, 3221, 3222, 4221, 4222 Flute 2:1½/24\*:0
- 3421, 3422, 4421, 4422 Flute 4:2\*\*\*:0
- 1223, 1224, 2223, 2224, 3223, 3224, 4223, 4224 French Horn 2:1½/24\*:0
- 3423, 3424, 4423, 4424 French Horn 4:2\*\*\*:0
- 1231, 1232, 2231, 2232, 3231, 3232, 4231, 4232 Oboe 2:1½/24\*:0
- 3431, 3432, 4431, 4432 Oboe 4:2\*\*\*:0
- 1233, 1234, 2233, 2234, 3233, 3234, 4233, 4234 Organ 2:1½/24\*:0
- 3433, 3434, 4433, 4434 Organ 4:2\*\*\*:0
- 1241, 1242, 2241, 2242, 3241, 3242, 4241, 4242 Piano 2:1½/24\*:0
- 3441, 3442, 4441, 4442 Piano 4:2\*\*\*:0
- 1251, 1252, 2251, 2252, 3251, 3252, 4251, 4252 Saxophone 2:1½/24\*:0
- 3451, 3452, 4451, 4452 Saxophone 4:2\*\*\*:0
- 1253, 1254, 2253, 2254, 3253, 3254, 4253, 4254 Percussion 2:1½/24\*:0
- 3453, 3454, 4453, 4454 Percussion 4:2\*\*\*:0
- 1257, 1258, 2257, 2258, 3257, 3258, 4257, 4258 String Bass 2:1½/24\*:0
- 3457, 3458, 4457, 4458 String Bass 4:2\*\*\*:0
- 1261, 1262, 2261, 2262, 3261, 3262, 4261, 4262 Trombone or Baritone 2:1½/24\*:0
- 3461, 3462, 4461, 4462 Trombone or Baritone 4:2\*\*\*:0
- 1263, 1264, 2263, 2264, 3263, 3264, 4263, 4264 Tuba 2:1½/24\*:0
- 3463, 3464, 4463, 4464 Tuba 4:2\*\*\*:0
- 1271, 1272, 2271, 2272, 3271, 3272, 4271, 4272 Viola 2:1½/24\*:0
- 3471, 3472, 4471, 4472 Viola 4:2\*\*\*:0
- 1273, 1274, 2273, 2274, 3273, 3274, 4273, 4274 Violin 2:1½/24\*:0
- 3473, 3474, 4473, 4474 Violin 4:2\*\*\*:0
- 1281, 1282, 2281, 2282, 3281, 3282, 4281, 4282 Voice 2:1½/24\*:0

- 3481, 3482, 4481, 4482 Voice 4:2\*\* :0  
 2283, 2284 Composition 2:1 $\frac{1}{4}$ \* :0  
 3283, 3284, 4283, 4284 Composition 2:1 $\frac{1}{4}$ \* :0  
 3483, 3484, 4483, 4484 Composition 4:2\*\* :0

\*One 30-minute private lesson and one one-hour class per week.

\*\*One hour private lesson and one one-hour class per week.

## Music Education Courses (MEd)

- |     |   |       |
|-----|---|-------|
| 131 | <b>Elements of Music</b>  | 3:3:0 |
|     | Designed to familiarize non-music majors with the meaning of musical notation and the harmonic, melodic and rhythmic structure of music.  |       |
| 311 | <b>Brass</b>  | 1:1:0 |
|     | Techniques and materials in the teaching of instrumental music in the elementary school. Trumpet and Horn.  |       |
| 312 | <b>Brass</b>  | 1:1:0 |
|     | Techniques and materials in the teaching of instrumental music in the elementary school. Trombone, Baritone and Tuba.   |       |
| 313 | <b>Strings</b>  | 1:1:0 |
|     | Techniques and materials in the teaching of instrumental music in the elementary school. Violin and Viola.  |       |
| 314 | <b>Strings</b>  | 1:1:0 |
|     | Techniques and materials in the teaching of instrumental music in the elementary school. Cello and Bass.  |       |
| 315 | <b>Percussion</b>   | 1:1:1 |
|     | Materials for the percussion instruments. Performance on all percussion instruments.  |       |
| 317 | <b>Marching Methods</b>   | 1:2:0 |
|     | Basic marching maneuvers. Charting various types of half-time shows for football games, such as the pageant type and the precision drills, and arranging the music for these shows. Term project: a completely charted half-time show with music.               |       |
| 331 | <b>Elementary Methods and Materials</b>   | 3:3:0 |
|     | Techniques and materials in teaching of music in the lower elementary grades. The child's voice, rote singing; rhythmic, introduction of notation, creative music activities.<br><i>Prerequisite: MTy 131 or equivalent.</i>                                    |       |
| 332 | <b>Techniques and Materials in Teaching of Music in the Upper Elementary Grades</b>   | 3:3:0 |
|     | Creative music, rhythmic activity, rote singing, reading of notation and effective use of materials.<br><i>Prerequisite: MTy 131 or equivalent.</i>   |       |
| 333 | <b>The Organization and Development of the High School Stage Band</b>   | 3:3:0 |
|     | The relationship of the jazz band to the over-all music program; instrumentation; sources of music; types of presentation; rehearsal and techniques; study of the effective application of dynamics, phrasing, intonation and balance for improved performance. |       |
| 335 | <b>Choral Music</b>   | 3:3:0 |
|     | A detailed study, primarily at the secondary level, of the organization and administration of choirs, glee clubs, small ensembles and vocal problems encountered in the choral music class.   |       |
| 336 | <b>Instrumental Music</b>   | 3:3:0 |
|     | Materials and problems encountered in the instrumental music field of the high school. A detailed study of the organization and administration of bands, orchestras, etc.   |       |
| 337 | <b>Choral Conducting</b>  | 3:3:0 |
|     | Basic patterns and rudiments of choral techniques as applied to secondary school choral groups. Limited to music majors.<br><i>Prerequisite: Some vocal study, piano keyboard, one year of vocal laboratory and music theory.</i>                               |       |
| 338 | <b>Instrumental Conducting</b>  | 3:3:0 |
|     | The rudiments of conducting as applied to high school instrumental groups, phrasing interpretation, etc. of the instrumental field, both band and orchestra.  |       |
| 410 | <b>Seminar</b>  | 1:1:0 |
|     | A general study of the problems encountered in music.   |       |
| 411 | <b>Woodwinds</b>  | 1:1:0 |
|     | Techniques and materials in the teaching of instrumental music the elementary school. Flute, Clarinet and Saxophone.  |       |
| 412 | <b>Woodwinds</b>  | 1:1:0 |
|     | Techniques and materials in the teaching of instrumental music in the elementary school. Oboe and Bassoon.  |       |
| 430 | <b>Recording Techniques</b>   | 3:3:0 |
|     | Step-by-step familiarization with studio recording techniques, professional equipment, special effects and production theories.   |       |



- 431 **Jazz Electronic Music** 3:3:0  
 An introduction to electronic jazz keyboard instruments (synthesizer) through an analysis of the styles of pop, jazz and contemporary performers.  
*Prerequisite: Completion of the piano barrier.*

## Music Laboratory (MLb)\*

\*Courses in Music Laboratory may be repeated for credit. Total credit not to exceed eight semester hours for any one course.

- 111 **Jazz Piano** 1:1:0  
 A study of contemporary jazz piano styles.
- 112 **Fender (Electric) Bass** 1:1:0  
 Basic fundamentals of jazz and pop Fender bass performance.
- 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.
- 115 **Jazz Combo** 1:1:0  
 Basic fundamentals of small ensemble jazz performance Must be taken concurrent with MLB 113 (Jazz Improvisation).
- 117 **Dance Band** 1:0:3  
 Organized to furnish training in all styles of dance band performance. Open to any student who can qualify.
- 122 **Orchestra** 2:0:6  
 A performing ensemble open to all university students who can qualify. Required of any student majoring in a string instrument.
- 124 **Marching Band** 2:0:6  
 The study and performance of march music and military drill. Open to any student who can qualify. Four semesters completes PE requirement.
- 125 **Symphonic Band** 2:0:6  
 Performs symphonic wind ensemble and band repertoire. Tryout 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.
- 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-theater. Annual full scale opera production. Auditions open to all qualified students.
- 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.
- 423 **Chamber Music Ensemble** 2:0:5  
 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)

- 111, 112 **Music Principles** 1:0:2  
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 a thorough briefing on score reading through the use of recordings from the significant periods of music history.
- 113 **Pop Music Survey** 1:1:0  
A study of present day pop music.
- 121-122 **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 a thorough briefing on score reading through the use of recordings from the significant periods of music history.  
*Prerequisite: MLt 121 must be taken before MLt 122.*
- 213 **Piano Pedagogy** 1:2:0  
A brief, chronological survey and analysis of the styles and forms of compositions in relation to keyboard instruments. Minimum knowledge of all keyboard instruments will be required. Special emphasis will be placed on the contribution of the performers, composers and compositions in the field of piano literature.
- 330 **Jazz History** 3:3:0  
A survey of literature and advances made in the jazz field, with views to historical and cultural background.
- 331 **Music of Non-West Cultures** 3:3:0  
The music of China, Japan, and India will be examined by historical survey; by analysis of musical scores, and by other appreciational methods.
- 332 **Music Appreciation** 3:3:0  
A course designed to acquaint the non-music major with some phases and aspects of music listening, theory, rhythm and other forms of musical enjoyment.
- 333 **Music History** 3:3:2  
A survey of the literature and advances made in music from the early Christian era through the middle Baroque (c. 1700). Two hours of listening required per week in addition to class lecture.  
*Prerequisite: MLt 121-122 and MTy 232-233.*
- 334 **Music History** 3:3:2  
A survey of the literature and advances made in music from the late Baroque (J. S. Bach and others) through the present time. Two hours of listening required per week in addition to class lecture.  
*Prerequisite: May be taken before Music History 333, so long as prerequisites for Music History 333 have been satisfied.*
- 335 **Music of the Afro-American** 3:3:0  
A general study of the present day American Negro music and a study of the Afro-American music historical background.
- 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.*
- 338 **Chamber Opera** 3:3:0  
A class in chamber opera of short operatic works for students providing study of complete roles and ensemble operatic excerpts for presentation in concert. Open to all students from all departments by audition. LU-Rome only.
- 339 **Grand Opera** 3:3:0  
A class providing study of complete operatic roles, scenes and excerpts from standard and contemporary works for presentation in opera-theater. Auditions open to all qualified students from all departments. LU-Rome only.

## 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, rhythm, 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.*

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- 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.*
- 425 **Band Arranging** 2:2:0  
Techniques of writing, transcribing from orchestra score and arranging for the instrumentation of the high school marching and concert bands.



# College of Health and Behavioral Sciences

Departments: Allied Health, Nursing, Psychology  
Myrtle L. Bell, Ed.D., Dean

The College of Health and Behavioral Sciences was formed in 1981 when the Department of Psychology merged with the Departments of Allied Health and Nursing which had been in the College of Health Sciences. The departmental merger brought together programs of instruction in psychology, baccalaureate nursing, associate degree nursing, vocational nursing, dental hygiene, radiologic technology, and respiratory technology.

## Goals of the College

The over-all goal of the College of Health and Behavioral Sciences continues the tradition of the College of Health Sciences—to produce high caliber health specialists in specific areas of need and in sufficient numbers to contribute significantly to the improvement of health care of Southeast Texas citizens.

Since education of the health professional draws on concepts from the reservoir of knowledge in general and scientific education, health and behavioral science students are exposed to those concepts through university courses during the preprofessional semesters.

The bringing together of Psychology with Allied Health and Nursing initiates a broadening scope of interdisciplinary approaches to the education of future professionals in their respective fields. The major purposes of the Bachelor of Arts degree program are to acquaint the students with the tools and techniques of psychologist and to prepare them academically for employment with various social or mental health agencies under the supervision of licensed or certified personnel. Opportunities are also available in industrial and organizational settings. Although the same career opportunities as stated above are available for the student who completes the Bachelor of Science degree program, the program is designed primarily for the student who wishes to continue graduate study in psychology.

The College and its faculty are dedicated to responding to the health manpower needs of urban and rural health delivery systems. The tangible offerings include certificates, associate degrees, and baccalaureate degrees listed below.

## Degrees Offered

Bachelor of Arts—Psychology

Bachelor of Science—Psychology

Bachelor of Science—Nursing

Associate of Science—Nursing

Associate of Applied Science: Dental Hygiene,\* Radiologic Technology,\* Respiratory Therapy.\*

Certificate of Completion: Respiratory Technology,\* Vocational Nursing.\*

*\*These programs are offered with the approval of the Texas Education Agency.*

## Department of Allied Health

Department Head: William David Short

254A Ward Health Sciences Building

Assistant Professors: Dunn, Bailey, Short

Instructors: Fearing, Reynard, Young, King

Clinical Instructors: Bronson, Fleischer, Godwin, Hoosier, Huval, Meador

Adjunct Professors: Bharathi, Darnell, Giglio, Gish, Jepson, Koehler, Maddox, Coleman, Pinchback, Shaw, Sweet, Toups, Weaver

Part-time Clinical Instructors: Harrell

The health occupations within the department provide specific services to people in a variety of health care settings under the supervision of physicians or dentists. The goal of

delivering services through a team of health specialists working cooperatively characterizes allied health disciplines. The faculty aims to achieve this goal by providing an academic environment in which students can learn the theory underlying practice, gain positive attitudes toward their contribution to health care, and achieve clinical competence through supervised application of knowledge.

## Admission to Department of Allied Health Programs

Students enrolled at Lamar University must submit an Application for Admission to the Department.

Students not enrolled at Lamar must submit two separate applications: one for admission to Lamar (obtained from the Office of Admissions and Records) and one for admission to the specific program (obtained from the program director, Ward Health Sciences Building).

Completed Application for Admission to Allied Health programs, with required transcripts, test scores and related documents, must be received on specific dates (see program statement) of each year, to be considered for admission to Summer Session I. Applicants are urged to follow application instructions carefully to ensure processing by program admission committees.

Applications for Admission are evaluated on the following basis:

1. Admission to the University (Admission section of this bulletin).
2. Transcripts and grades in high school and previous college work.
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. Motivation for allied health practice demonstrated through letters of recommendation, employment and volunteer records and references, a statement of career goals and, in most cases, a personal interview.
5. Admission may be limited by available space.

Additional costs above tuition and fees are required in all Allied Health Department programs. Uniforms, equipment and instruments, liability insurance, health examinations and transportation to clinical facilities are the responsibility of the student. A wrist watch with a second hand is needed. Financial aids are available to eligible students: see Financial Aid and Award section of this bulletin.

Liability insurance and health examinations must be renewed each year of a health science program.

Students may be assigned to clinical experiences during day, evening, night or weekend hours.

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

## Health Sciences Courses (HS)

121	<b>Health Care Concepts</b> Lecture course designed to provide the basic concepts appropriate to health. The various health care worker roles, professional ethics, communication, growth and development and related topics will be presented. The rationale for skills which are common to all health personnel will be introduced. The course is required for all health science majors and will be prerequisite for the beginning skill courses in the various programs.	2:2:0
330	<b>Human Sexuality</b> A lecture and discussion class exploring the biological, psychological, social and cultural aspects of human sexuality for health professionals.	3:3:0
430	<b>Concepts of Loss</b> Study of a variety of losses experienced through the life span. Includes loss of relationships, jobs, body function, youth and independence, spouses, mobility, dying and death. Sensitivity exercises. Strategies for helping people cope with and adapt to losses.	3:3:0
433	<b>Concepts of Health Care Administration</b> Study and application of management, supervision and administrative theory and techniques in health care settings. Emphasis on planning, implementing and evaluating delivery of health care.	3:3:0

434 **Advanced Concepts in Community Health**

3:3:0

Advanced concepts in community and public health; including application of epidemiology, research and legislative processes to assess, plan for, implement and evaluate community health needs and programs.

*Prerequisite: Introductory course in Community Health, or consent of instructor.*

## Dental Hygiene

Program Director: Frieda Dunn

The purpose of the Dental Hygiene Program is to prepare highly competent dental hygienists to meet the oral health care needs of the public.

The program is designed to produce practitioners who will meet part of the preventive, maintenance and therapeutic needs of the community and state concerning oral health and its effect on total health. Through basic education in the Dental Hygiene Program, students acquire knowledge and proficiency to become functioning members of the health care delivery team.

Applications for Admission to the Dental Hygiene Program and criteria for admission procedures are available from the Dental Hygiene Program office, Ward Health Sciences Building. Applications and supporting materials are due by January 15 of each year.

To progress in the Dental Hygiene Program, a minimum grade of "C" (2.0) is required in all phases (lecture and laboratory/clinical practice) of dental hygiene courses and in science courses.

A minimum grade point average of 2.0 must be maintained in all courses submitted on the degree plan to obtain the Associate of Applied Science degree. Graduates who successfully pass the Dental Hygiene National Board Examination are eligible to take state licensing exams in states where they plan to practice.

## Associate of Applied Science—Dental Hygiene

### Recommended Program of Study

#### First Year

Summer Session I	Summer Session II
Bio 143 Anatomy and Physiology ..... 4	Bio 144 Anatomy and Physiology ..... 4
DH 131 Orientation to Dental Hygiene ..... 3	DH 127 Morphology and Occlusion ..... 2
HS 121 Health Care Concepts ..... 2	
9	6
Fall Semester	Spring Semester
DH 132 Dental Radiology ..... 3	DH 137 Dental Materials ..... 3
DH 144 Head and Neck Anatomy and Physiology ... 4	DH 138 General and Oral Pathology ..... 3
DH 145 Pre Clinic ..... 4	DH 146 Clinic I ..... 4
Chem 143 Introductory Chemistry ..... 4	Bio 245 Introductory Microbiology ..... 3
15	14

#### Second Year

Summer Session I	Summer Session II
HEc 138 Principles of Nutrition ..... 3	DH 221 Diet Analysis ..... 2
English Composition ..... 3	DH 223 Periodontology ..... 2
6	4
Fall Semester	Spring Semester
Psych 131 Introduction to Psych ..... 3	DH 225 Community Dentistry II ..... 2
DH 224 Pharmacology ..... 2	DH 256 Clinic III ..... 5
DH 233 Community Dentistry I ..... 3	English Composition ..... 3
DH 255 Clinic II ..... 5	Soc 131 Introduction to Sociology ..... 3
13	13

*NOTE: Credit by examination may be earned in some Dental Hygiene courses. See the program director.*

## Dental Hygiene Courses (DH)

- 127 **Dental Morphology and Occlusion** 2:1:3  
 A detailed anatomical study of human teeth, their eruption, exfoliation and occlusion.  
*Prerequisite: Admission to the program.*
- 131 **Orientation to Dental Hygiene Practice** 3:2:3  
 Orientation and introduction to the practice of dental hygiene, including his/her role in all phases of dental specialty practice.  
*Prerequisite: Admission to the program.*
- 132 **Dental Radiology** 3:2:3  
 A detailed study of theories, clinical techniques and principles of dental radiographic practice. Radiation safety, protection, exposure, production, development and interpretation are emphasized.  
*Prerequisite: Admission to the program.*
- 137 **Dental Materials** 3:2:3  
 A study of the sources, properties, uses and techniques of manipulation of the various materials used in dentistry.  
*Prerequisite: Admission to the program.*
- 138 **General and Oral Pathology** 3:3:0  
 A histopathological study of oral lesions, pathogenic conditions of particular significance to dentistry and principles of general and oral pathology.  
*Prerequisite: Admission to the program.*
- 144 **Head and Neck Anatomy and Physiology** 4:4:0  
 A detailed study of the embryology, histology, anatomy and physiology of the head and neck region, including common dysfunctions of the temporal-mandibular joint.  
*Prerequisite: Admission to the program or permission of program director.*
- 145 **Pre-Clinic** 4:2:6  
 Theoretical and clinical instruction in oral prophylaxis and preventive procedures. Transfer to patient simulation completed on manikins and class partners.  
*Prerequisite: Admission to the program.*
- 146 **Clinic I** 4:2:8  
 Continuation and mastery of basic oral prophylaxis procedures. Advancement of complete patient care conducted in the dental hygiene clinic.  
*Prerequisite: Admission to the program.*
- 221 **Dietary Analysis** 2:2:0  
 Study and application of diet analysis consultation skills in effecting patient behavior change relative to diet and dental disease.  
*Prerequisite: Admission to the program.*
- 223 **Periodontology** 2:2:0  
 Comparative study of normal and diseased periodontium and the effects of structural, functional and environmental agents.  
*Prerequisite: Admission to the program.*
- 224 **Pharmacology** 2:2:0  
 Study of the uses and actions of drugs including drug side effects, contraindications and oral manifestations.  
*Prerequisite: Admission to the program.*
- 225 **Community Dentistry II** 2:1:3  
 Application of program planning skills enhanced through actual community implementation. Analytical skills concerning critical evaluation of scientific data emphasized through a review of scientific literature.  
*Prerequisite: Admission to the program.*
- 233 **Community Dentistry I** 3:3:0  
 Theory and principles of public health including epidemiology, statistics, preventive medicine, health behavior and program planning related to governmental, sociological, environmental and cultural concerns.  
*Prerequisite: Admission to the program.*
- 255 **Clinic II** 5:2:12  
 Advancement of clinical prophylaxis skills applied to periodontally involved patients. Clinic and theoretical framework expanded through the addition of amalgam polishing procedures and diet consultation procedures.  
*Prerequisite: Admission to the dental hygiene program; DH 145 and 146.*
- 256 **Clinic III** 5:2:12  
 Continuation and advancement of dental hygiene skills including advanced scaling and root smoothing procedures. Time utilization emphasized.  
*Prerequisite: Admission to the program; DH 255.*



## Radiologic Technology

Program Director: William David Short

The purpose of this program is to prepare students for a career in Radiologic Technology. Each student will be assisted in the pursuit of technical competence through lectures, demonstrations, supervised study and practical experience. A graduate of this two-year instructional program is awarded the Associate of Applied Science degree and becomes eligible to take the American Registry Examination for Radiologic Technology.

Students are accepted into the Radiologic Technology Program in the summer of each year. Admission to the program is based upon evidence of personal, physical, intellectual and emotional characteristics which are assumed to be consonant with a successful career in radiologic technology.

Radiologic Technology application for admission forms, criteria and admission procedures are available from the Radiologic Technology Program director, Ward Health Sciences Building. Applications are due by April 15 of each year.

A minimum grade of "C" (2.0) must be earned in all radiologic technology and science courses for progression in the program. In addition, a grade point average of 2.0 must be maintained in all courses submitted on the degree plan to obtain the Associate of Applied Science degree.

## Associate of Applied Science— Radiologic Technology

### Recommended Program of Study

#### First Year

Summer Session I	Summer Session II
Bio 143 Anatomy and Physiology ..... 4	Bio 144 Anatomy and Physiology ..... 4
HS 121 Health Care Concepts ..... 2	RA 131 Orientation to Radiologic Technology ..... 3
6	7
Fall Semester	Spring Semester
RA 132 Radiographic Principles ..... 3	RA 133 Advanced Positioning & Pathology ..... 3
RA 143 Radiographic Positioning ..... 4	RA 144 Radiographic Physics ..... 4
Math ..... 3	English Composition ..... 3
English Composition ..... 3	Psy or Soc ..... 3
RA 152 Radiographic Practicum I ..... 5	RA 154 Radiographic Practicum II ..... 5
18	18

#### Second Year

Summer Session I	Summer Session II
RA 234 Radiographic Practicum III ..... 3	RA 235 Radiographic Practicum IV ..... 3
Fall Semester	Spring Semester
RA 231 Special Procedures ..... 3	RA 236 Radiographic Technology Seminar ..... 3
RA 242 Advanced Procedures ..... 4	RA 233 Radiation Biology ..... 3
RA 262 Radiographic Practicum V ..... 6	RA 264 Practicum VI ..... 6
13	12

## Radiologic Technology Courses (RA)

- |     |   |       |
|-----|---|-------|
| 131 | Orientation to Radiologic Technology<br>Introduction to Radiology; including history, organization, production of X-rays, radiation protection, dark-room technique, terminology. Examinations performed in radiology department.                       | 3:2:3 |
| 132 | Radiographic Principles<br>Study of basic principles of X-ray production; emphasis on the relationship between milliamperage, kilovoltage, time and distance as related to density and contrast on a radiograph. Film critique and dark room technique. | 3:3:0 |
| 133 | Advanced Positioning & Pathology<br>An intensive study in radiographic positioning to include Skulls, trauma, pediatrics and pathology identifications.   | 3:3:0 |

143	<b>Radiographic Positioning</b> Procedures in radiology. Basic, advanced contraindications are explored. Topographic anatomy included.	4:3:4
144	<b>Radiographic Physics</b> Intensive study of electromagnetism, electric transformers, electrical rectification, production of X-rays and the preventive maintenance of X-ray machines.	4:3:2
152	<b>Radiographic Practicum I</b> Introduction to the clinical environment in affiliate hospitals. Rotation through different work centers to observe and assist in the operation of the radiology department. <i>Course requires 24 hours week of clinical participation.</i>	5:0:24
154	<b>Radiographic Practicum II</b> Students make standard radiographs under close supervision by a qualified radiologic technologist. <i>Course requires 24 hours week in clinical participation.</i>	6:0:24
231	<b>Special Procedures</b> Procedures uncommon to the radiology department. Specialized equipment involved. Anatomy, contrast media and radiographic projections used. Analysis of film quality.	3:3:0
233	<b>Radiation Biology</b> Effects of radiation on the human population, methods of protection and dosimetry. Basic principles of radiation therapy and nuclear medicine.	3:3:0
234	<b>Radiographic Practicum III</b> Clinical study to broaden the students' application of radiographic procedures. Proficiencies in diagnostic radiology will be emphasized. Course requires 40 hrs/week of clinical participation.	3:0:40
235	<b>Radiographic Practicum IV</b> A continuation of Ra 234 with increasing emphasis in diagnostic radiology. Course requires 40 hrs/week of clinical participation. <i>Prerequisite: Ra 234.</i>	3:0:40
236	<b>Radiologic Technology Seminar</b> An indepth study of testing methodology. Also covered will be new advances in the field of radiology.	3:3:0
242	<b>Advanced Procedures</b> Specialized technical procedures in radiology. Basic image detector principles, reducing patient exposure, accessory devices for patient safety, comparison of radiographic tubes, enlargement techniques, comparison of timing devices, mobile or bedside radiography, body section radiography and electronic image systems. Pediatric radiology included.	4:3:2
262	<b>Radiographic Practicum V</b> Rotation through specialized procedure areas during clinical practice under limited supervision. Course requires 32 hrs/week of clinical participation.	6:0:32
264	<b>Radiographic Practicum VI</b> Rotation through specialized areas in a radiology department. Emphasis on job responsibilities and confidence in skill performance. Course requires 32 hrs/week clinical participation.	6:0:32

## Respiratory Technology/Therapy

Program Director: Paul A. Bronson

The purpose of this program is to prepare students for careers in respiratory therapy through lectures, laboratories and clinical experiences aimed at qualifying the student for certification in respiratory therapy. Upon successful completion of the course, the graduate may take the entry level certification examination given by the National Board for Respiratory Therapy.

A passing score on the examination will qualify the individual as a Certified Respiratory Therapy Technician (C.R.T.T.).

The student may option to continue into the second year of the program which leads to an Associate of Applied Science degree in Respiratory Therapy. Admission criteria into the second year are: 1) Successful completion of a one-year CAHEA Accredited Respiratory Therapy Technician Program; 2) or Certification by the NBRT as a Certified Respiratory Therapy Technician (CRTT).3) Completion of application form for two-year AAS degree program.

Upon successful completion of the two-year course, the graduate may take the written registry examination given by the National Board for Respiratory Care. Obtaining a passing grade on the written examination qualifies the graduate to take the Clinical Simulation Examination. A passing grade on this examination qualifies the individual as a Registered Respiratory Therapist (R.R.T.).

Completed application forms must be submitted to the director of the respiratory technol/therapy program by April 15 of each year. These forms and the admission procedures are available from the program director, Ward Health Sciences Building.

A minimum grade of "C" 2.0 must be earned in all respiratory technology and science courses for progression in the program. In addition, a grade point average of at least 2.0 must be maintained in all courses to obtain the Certificate of Completion in Respiratory Technology, or the Associate of Applied Science Degree in Respiratory Therapy.

## Certificate of Completion—Respiratory Technology

### Recommended Program of Study

#### First Year

<b>Summer Session I</b>		<b>Summer Session II</b>	
Bio 143 Anatomy and Physiology .....	4	Bio 144 Anatomy and Physiology .....	4
HS 121 Health Care Concepts .....	2	RT 131 Orientation to RT Practice .....	3
RT 123 Basic Respiratory Technology Care .....	2		7
	8		
<b>Fall Semester</b>		<b>Spring Semester</b>	
RT 121 Clinical Medicine I .....	2	RT 122 Clinical Medicine II .....	2
RT 141 RT Procedures I .....	4	RT 137 RT Procedures II .....	3
RT 143 RT Sciences .....	4	RT 138 Cardiopulm Tech .....	3
RT 160 RT Clinic I .....	6	RT 161 RT Clinic II .....	6
	16		14

#### Second Year

<b>Summer Session I</b>		<b>Summer Session II</b>	
English Composition .....	3	English Composition .....	3
RT 232 Card-Pulm-Renal Anatomy & Physiology .....	3	RT 231 RT Procedures III .....	3
	6		6
<b>Fall Semester</b>		<b>Spring Semester</b>	
Chem 143 Introductory Chemistry .....	4	Bio 245 Intro Microbiology .....	4
Math .....	3	Phy 141 General Physics .....	4
RT 221 Pulmonary Pathophysiology .....	2	RT 234 RT Procedures IV .....	3
RT 233 RT Clinical III .....	3	RT 235 RT Clinical IV .....	3
Psy 131 or Soc 131 .....	3		
	15		14

## Respiratory Technology Therapy Courses (RT)

121	<b>Clinical Medicine I</b> Basic pathological process applicable to disease conditions important to the respiratory technician. Emphasis on chronic respiratory diseases.	2:2:0
122	<b>Clinical Medicine II</b> Prepares the student for the management of acute respiratory failure in newborn, pediatric, medical, surgical, obstetric and gynecology patients. Respiratory therapy involvement is emphasized.	2:2:0
123	<b>Basic Respiratory Technology Care</b> A basic introduction to the concepts of oxygen care, physical examinations, gas modalities and oxygen analyzers.	2:2:0
131	<b>Orientation to RT Practice</b> An orientation to the concepts of oxygen manufacture, transport and storage, flow meters, regulators, tanks, humidifiers, oxygen concentrators, and an indepth moduel in CPR.	3:3:6
137	<b>Respiratory Therapy Procedures II</b> Prepares the student to skillfully operate various volume ventilators and to effectively administer assistance required by medical staff. <i>Prerequisite: Concurrent enrollment in RT 138, 122, and 161.</i>	3:2:3
138	<b>Cardiopulmonary Technology</b> Emphasizes the importance of the heart and lungs to respiratory therapy. Relates the cardiopulmonary systems to airway management, cardiopulmonary resuscitation, blood gas analysis, pulmonary function studies and chest physiotherapy.	3:2:3

- 141 **Respiratory Therapy Procedures I** 4:3:4  
Instruction and application of techniques and skills necessary to administer common methods of gas, aerosol and humidity therapy. Pharmacology for respiratory therapy discussed in detail and correlated with intermittent positive pressure breathing procedures and equipment.
- 143 **Respiratory Therapy Sciences** 4:3:2  
Basics of mathematics, chemistry, physics and microbiology as they relate to respiratory therapy principles and procedures.
- 160 **Respiratory Therapy Clinic I** 6:0:24  
Introduces the student to the respiratory therapy department in clinical facilities. Observation of techniques of therapists and technicians as they perform services. The student will participate in basic respiratory therapy procedures including intermittent positive pressure breathing, aerosol, humidity and gas therapy.  
*Prerequisite: Concurrent enrollement in RT 141, 143 and 121.*
- 161 **Respiratory Therapy Clinic II** 6:0:24  
Clinical application of treatment conditions discussed concurrently in RT 122, 137 and 138. Special emphasis on practice in critical care areas utilizing volume ventilators. Experience in the management of artificial airways, tracheobronchial aspiration, blood gas analysis and pulmonary function testing are included.
- 221 **Pulmonary Pathophysiology** 2:2:0  
An advanced study of disease with emphasis on the diseases which compromise the function of the respiratory apparatus.
- 231 **Respiratory Therapy Procedures III** 2:3:3  
Emphasizes advanced pulmonary function studies including nitrogen washout, helium closed circuit, body box, closing volumes, flow volume loops, chest X-ray interpretation, stress testing and heart catheterization.
- 232 **Cardiopulmonary/Renal Anatomy & Physiology** 3:3:0  
Emphasizes the anatomy and physiology of the heart, circulatory system, respiratory system and the excretory system.
- 233 **Respiratory Therapy Clinical III** 0:3:16  
Clinical application of therapeutic modalities as related to specific disease entities diagnosed from results of lab tests.
- 234 **Respiratory Therapy Procedures IV** 2:3:3  
Will be divided into three sections: Pulmonary rehabilitation/home care; organization and administration of Respiratory Therapy Departments; teaching techniques in Respiratory Therapy.
- 235 **Respiratory Therapy Clinical IV** 0:3:16  
Clinical rotation will be divided into three sections: a clinical rotation through the pulmonary rehabilitation unit concurrently with a respiratory home care agency; a clinical rotation with the department heads of each affiliating hospital; a clinical teaching rotation.

## Department of Nursing

Department Head: Eileen Tiedt

233B Ward Health Sciences Building

Professor: Grubb, Tiedt

Associate Professor: Taylor

Assistant Professors: Boyd, Duncan, Esperat, Malone, Moss, Poole, Price-Nealy, Twiname, Waugh

Instructors: Cloud, Kirksey, Hale, Roberts, Slaydon, Smith, Wohler

Instructor III: Aycok

Instructor II: Rudloff, Stone

Instructor I: Mason

Clinical Instructors: Dickey, Diltz, Gilmore, Gregory, Kilpatrick, McGuffin, Mayfield, Richard, Richardson, Stanley, Stinson, Wielgus, Wilmore

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 regime, 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, and in support of the client and family. 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 experiences 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 not enrolled at Lamar must submit two separate applications: one for admission to Lamar (obtained from the Office of Admissions and Records), 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 on specified dates (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 bases:

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. Motivation for nursing practice demonstrated through letters of recommendation, employment and volunteer records and references, statement of career goals and, in most cases, a personal interview.
5. Admission may be limited by available space.
6. An overall grade point average of 2.0 for the Associate Degree, 2.5 for the Baccalaureate Degree and an SAT score of 550 for the Vocational Nursing certificate, is the minimum required for consideration for admission to these programs. Applicants who exceed the minimum requirements will gain more favorable recognition.

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 aids are available for eligible students (see Financial Aid and Awards section of this bulletin.)

Liability insurance and health examinations must be renewed each year of Nursing programs.

Students may be assigned to clinical experiences during day, evening, night, or weekend hours.

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

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

Courses taught during the summer sessions may require different registration procedures.

## 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 Health and Behavioral 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 overall grade point average GPA of 2.50 in all college work.
- 2) Have completed all prerequisite psycho/social/biological science courses with an average GPA of 2.50
- 3) Submit a complete application and attendant materials to the Admissions Committee by April 15 prior to the sophomore year.

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.

Nursing courses may be repeated once 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

#### First Year

First Semester	
Bio 143 Human Anatomy and Physiology .....	4
Chm 143 Introduction .....	4
Psy 131 Introduction to Psychology .....	3
HEc 138 Principles of Nutrition .....	3
Eng 131 Composition .....	3
HPE.....	1
	18

#### Second Semester

Bio 144 Human Anatomy and Physiology .....	4
Chm 144 Introduction .....	4
Psy 234 Child Psychology .....	3
Soc 131 Introduction to Sociology.....	3
Eng 132 Composition .....	3
HPE.....	1
	18

## Second Year

First Semester	Second Semester
Bio 245 Introductory Microbiology ..... 4	Nur 221 Concepts Basic to Nursing Practice ..... 2
Mth 1334 College Algebra ..... 3	Nur 284 Concepts and Practice of Clinical Nursing... 8
Nur 132 Basic Nursing Skills ..... 3	Nur 332 Pharmacologic Basis of Nursing Practice... 3
Nur 233 Basic Pathophysiology ..... 3	Eng-231 Literature..... 3
Elective (Non Major) ..... 3	HPE..... 1
HS 121 Health Care Concepts ..... 2	
HPE..... 1	
19	17

## Third Year

First Semester	Second Semester
Nur 328 Ecology of Nursing..... 2	Nur 331 The Community as a Client ..... 3
Nur 391 Nursing Care of Adult Client ..... 9	Nur 382 Nursing Care of Childbearing Families ..... 8
His 231 American History ..... 3	Nur Elective ..... 3
Elective (Non Major) ..... 3	Gov 231 Introduction to American Government I ... 3
17	17

## Fourth Year

First Semester	Second Semester
Nur 481 Nursing Care of Childrearing Families..... 8	Nur 491 Comprehensive Nursing Practice ..... 9
Nur 430 Research Process in Nursing..... 3	Nur 433 Senior Seminar..... 3
His 232 American History ..... 3	Gov 232 Introduction to American Government II ... 3
Eng Literature (2)..... 3	Elective (non-major)*
17	18

\*Students are encouraged to take this course earlier, if possible.

## Bachelors Degree Nursing Courses (Nur)

132	<b>Basic Nursing Skills</b> Focuses on the development of basic nursing skills, mathematical and measurement skills and terminology. Required for all ADN applicants and BSN Majors.	3:2:3
221	<b>Concepts Basic to Nursing Practice</b> Introduction to 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. <i>Prerequisite: Admission to the BSN Program or departmental consent.</i>	2:2:0
2301	<b>Special Topics in Nursing</b> Nursing elective introducing topics related to health care. Designed to expand the student's professional role in various health care settings and areas of specialization. <i>Prerequisite: Departmental Consent.</i>	3:3:0
233	<b>Basic Pathophysiology</b> Study of basic pathophysiology with emphasis on disease processes. Focus on implications for nursing practice. <i>Prerequisite: Admission to the BSN program or department consent.</i>	3:3:0
284	<b>Concepts and Practice of Clinical Nursing</b> Beginning application of the nursing process. Emphasis on health assessment and history taking. <i>Prerequisite: Nur 132,221,233, admission to BSN Program.</i>	8:3:15
328	<b>Ecology of Nursing</b> Consideration of 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. <i>Prerequisite: Departmental consent.</i>	2:2:0
3305	<b>Directed Study in Nursing</b> This elective provides the nursing student with an opportunity for individualized study of selected concepts and/or problems in professional nursing. Course may be repeated as content varies. <i>Prerequisite: Departmental consent.</i>	3:3:0
331	<b>The Community as a Client</b> 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. <i>Prerequisite: Departmental consent.</i>	3:3:0

- 332 **Pharmacologic Basis of Nursing Practice** 3:3:0  
An introduction to pharmacology, principles of therapeutics and clinical applications.  
*Prerequisite: Departmental consent.*
- 3331 **Folk Medicine** 3:3:0  
Study of societal influence on health attitudes and beliefs of different cultures. Components such as religion, language, family structure, and traditional community life style are examined with regard to their implications for health providers.  
*Prerequisite: Departmental consent.*
- 3332 **Ethical Issues in Health Care** 3:3:0  
Wide range exploration of ethical issues central to providing health care in contemporary America.  
*Prerequisite: Departmental consent.*
- 3333 **Legal Concepts in Health Care** 3:3:0  
Study of the principles of law that affect the delivery of health care.  
*Prerequisite: Department consent.*
- 3334 **Health Planning** 3:3:0  
Introduction to planning process in health systems development including specific planning issues relating to facilities, services, and manpower.  
*Prerequisite: Departmental consent.*
- 3335 **Trends in Health Professions** 3:3:0  
Examines major forces affecting health care delivery and implications for health workers. Topics include demographics, technological changes, disease trends, governmental action and changes in the health delivery system.  
*Prerequisite: Departmental consent.*
- 3336 **Ethnic Consideration of Health Care** 3:3:0  
Application of the theory of major biological, psychological, sociological and cultural characteristics of ethnic people of color. Current concepts of ethnic variations and their principles for health practice will be focused upon.  
*Prerequisite: Department consent.*
- 3337 **Teaching in Health Sciences** 3:3:0  
Principles and methods of the teaching-learning process for health professions will be examined. Using a systems approach to instructional development, health teaching in a variety of setting will be explored. Topics include classroom and clinical instruction of health students; patient and public health education; and continuing education for health professionals.  
*Prerequisite: Department consent.*
- 336 **Oncology Nursing** 3:3:0  
Emphasis is on the bio-psycho-social needs of clients with cancer. Course content includes pathophysiology, diagnosis and staging, modes of therapy, psychosocial problems, the nurse's role and support groups.  
*Prerequisite: Departmental consent.*
- 339 **Psycho-Social Aspects of Nursing** 3:3:0  
Enhances student's ability to transfer knowledge from psychology, sociology and nursing, to care of clients with disturbances in mental, social, and physical health.  
*Prerequisite: Departmental consent.*
- 345 **Physical Assessment** 4:3:3  
Clinical laboratory and classroom experience in applying physical assessment skills. Appropriate for junior and senior nursing students.  
*Prerequisite: Nur 233 or departmental consent.*
- 382 **Nursing Care of Childbearing Families** 8:3:15  
Application of nursing process, emphasizing planning and intervention skills with clients and families in the childbearing cycle.  
*Prerequisite: Nur 284, 391.*
- 391 **Nursing Care of Adult Client** 9:4:15  
Application of nursing process, emphasizing planning and intervention skills with adult clients experiencing interferences in biological and/or psychological health.  
*Prerequisite: Nur 284.*
- 411 **Directed Reading in Nursing** 1:1:0  
Provides the senior nursing student an opportunity to engage in reading and library study of selected concepts in nursing, under faculty supervision. May not be repeated.  
*Prerequisite: Departmental consent.*
- 4301 **Special Topics Nursing** 3:3:0  
Nursing elective introducing topics related to health care. Designed to expand the student's professional role in various health care settings and areas of specialization.  
*Prerequisite: Departmental Consent.*



- 4305 **Directed Study in Nursing** 3:3:0  
This elective provides the senior nursing student with an opportunity for individualized study of selected concepts and/or problems in professional nursing. The course may be repeated as the content varies.  
*Prerequisite: Departmental consent.*
- 430 **Research Process in Nursing** 3:3:0  
Introduction to the 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.*
- 431 **Clinical Elective in Nursing** 3:1:6  
Opportunity to expand knowledge of theory and practice in selected areas of nursing. Course may be repeated as content varies.  
*Prerequisite: Departmental consent.*
- 432 **Nursing of Children in Crisis** 3:3:0  
Use of the nursing process in the care of children and their families facing crisis. This course covers the dynamics of the crisis situation and the adaptive responses of the child and family.  
*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.*
- 434 **Media in Nursing** 3:3:0  
An introduction to the use and development of media in a variety of nursing settings.  
*Prerequisite: Departmental consent.*
- 435 **Managing Time and People** 3:3:0  
A lecture-discussion and clinical practice course designed for nurses in management positions. Emphasis on solving on-the-job problems through application of practical management strategies. Focus on improving time management skills, including setting priorities, increasing job and life satisfaction. Includes management skills in delegating and evaluation of personnel. Strategies for coping with people and situations which cause problems for nurse managers. Students will choose current on-the-job problems and devote on-duty time on their resolution.  
*Prerequisite: Employment in a managerial position, or department consent.*
- 436 **Occupational Health Nursing** 3:3:0  
Considers occupational health nursing from a variety of viewpoints. Analysis of current and projected trends and continuing need to assure industrial workers maximal level of wellness, safe work environment, and optimal production.  
*Prerequisite: Departmental consent.*
- 437 **Concepts of Child Health Promotion and Maintenance** 3:3:0  
Expansion of assessment, diagnostic, and nursing intervention skills to facilitate child health promotion and maintenance. Designed for nurses interested in health of children in community settings and schools.  
*Prerequisite: Nur 481 or departmental consent.*
- 439 **Nursing Care of Clients with Cardiopulmonary Problems** 3:3:0  
Intensive study of clients with selected complex disturbances in cardiopulmonary function.  
*Prerequisite: Departmental consent.*
- 441 **Advanced Neonatal Nursing** 4:3:4  
The physiology, pathology and nursing skills necessary to care for neonatal infants in intensive care units. Relationship of health status of infant on the maternal-infant bonding process emphasized.  
*Prerequisite: Nur 382 or departmental consent.*
- 442 **Emergency and Disaster Nursing** 4:2:6  
A lecture/discussion and clinical practice course designed to provide theory and practice for students interested in emergency and disaster nursing.  
*Prerequisite: Departmental consent.*
- 443 **Health Seminar** 4:4:0  
Examines complex health issues from an interdisciplinary perspective.
- 444 **Surgical Nursing** 4:2:6  
Opportunity to expand knowledge of theory and practice in the care of clients requiring surgical intervention.
- 481 **Nursing Care of Childrearing Families** 8:3:15  
Application of nursing process with emphasis on evaluation of children and their families experiencing episodic as well as long term health problems. A variety of clinical settings.  
*Prerequisite: Nur 382.*
- 491 **Comprehensive Nursing Practice** 9:3:18  
Application of nursing process to comprehensive nursing care. Leadership and management of nursing service delivery systems.  
*Prerequisite: Nur 481, 430.*

## Associate of Science — Nursing

Program Director: Doris J. Price-Nealy

The purpose of the Associate of Science 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 coordinated clinical experience in the nursing care of patients at local hospitals and community agencies. 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).

A minimum grade of "C" must be maintained in all nursing and science courses for admission and progression in the program, as well as to obtain the Associate of Science degree. For progression in the program 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. Nursing courses may be repeated once by special permission, after demonstration of prerequisite knowledge and skills (see program director and/or Student Handbook for specific policies and procedures).

To be considered for admission, the student must submit an application to the director of the associate degree nursing program by April 15 of each year. This form, and information concerning admission procedures may be procured from the Advising Center, Room 257, Ward Health Science Building. The student must also complete the required courses offered in Summer Session I and Summer Session II with a grade of "C" or better. Students are encouraged to develop and maintain early counseling contact with the department.

## Associate of Science — Nursing

### Recommended Program of Study

#### First Year

Summer Session I	Summer Session II
HS 121 Health Care Concepts ..... 2	Nur 132 Basic Nursing Skills ..... 3
Bio 143 Human Anatomy and Physiology ..... 4	Bio 144 Human Anatomy and Physiology ..... 4
PE Activity ..... 1-2	
7-8	7
Fall Semester	Spring Semester
Eng 131 Composition ..... 3	Bio 245 Microbiology ..... 4
Psy 131 Introduction ..... 3	Eng 132 Composition ..... 3
Nur 161 Mental and Physical Health I ..... 6	Nur 172 Nursing Adult Client I ..... 7
Gov 231 Intro. Am. Gov. I ..... 3	His 231 American History ..... 3
15	17

#### Summer Session I and II

Nur 281 Maternity Nursing.....	8
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#### Second Year

Fall Semester	Spring Semester
Nur 282 Nursing Child Client..... 8	Nur 283 Nursing Adult Client II ..... 8
Gov 232 Intro. Am. Gov. II ..... 3	His 232 American History ..... 3
PE Activity ..... 1-2	Eng Literature ..... 3
Soc 131 Introduction ..... 3	
15-16	14

## Associate Degree Nursing Courses (Nur)

132	<b>Basic Nursing Skills</b> Focuses on the development of basic nursing skills, mathematical and measurement skills and terminology. Required for all ADN and BSN applicants.	3:2:3
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161	<b>Mental and Physical Health I</b> 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. <i>Prerequisite: Nur 132, admission to ADN program.</i>	6:3:12
172	<b>Nursing Care of the Adult Client I</b> 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 161.</i>	7:3:16
2301	<b>Special Topics in Nursing</b> Nursing elective introducing topics related to health care. Designed to expand the student's professional role in various health care settings and areas of specialization. <i>Prerequisite: Departmental consent.</i>	1-4:0
281	<b>Maternity Nursing</b> 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 172.</i>	8:4:16
282	<b>Nursing Care of the Child Client</b> Application of concepts basic to the nursing process to the hospitalized child. <i>Prerequisite: Nur 281.</i>	8:4:16
283	<b>Nursing Care of the Adult Client II</b> Application of all concepts included in the nursing process to hospitalized adults with complex disturbances in physical and mental health. Introduction to management 1133 in hospital nursing service. <i>Prerequisite: Nur 282.</i>	8:3:20

## Vocational Nursing

Program Director: Sandra Boyd

Vocational Nurses provide basic nursing care under the direct supervision of a Registered Nurse or Physician. Upon successful completion of the program, graduates receive a certificate of completion and are eligible to make application to write the examination given by the State Board of Vocational Nurse Examiners to become a Licensed Vocational Nurse (LVN).

Vocational nursing classes begin in the Fall and Spring Semesters with application deadlines being July 15 and November 1 of each year. To be considered for admission applicants must submit an SAT score of at least 550 or an ACT score of at least 11. Application forms and procedures are available from the Advising Center, Room 257, Ward Health Sciences Building.

A minimum grade of "C" must be obtained in theory courses and an "S" (Satisfactory) in all clinical courses for progression in the program. Vocational nursing courses may be repeated once by special permission.

## Vocational Nursing

### Recommended Program of Study

First Semester	Second Semester
VN 175 Nursing Skills I ..... 7	VN 163 Nursing Skills II ..... 6
VN 144 Anatomy ..... 4	VN 136 Medical Surgical Nursing I ..... 3
VN 122 Nutrition ..... 2	VN 133 Pharmacology ..... 3
VN 166 Clinical Practice I ..... 6	VN 167 Clinical Practice II ..... 6
<u>19</u>	<u>18</u>
Third Semester	
VN 137 Medical Surgical Nursing II ..... 3	
VN 138 Obstetrical Nursing ..... 3	
VN 139 Pediatric Nursing ..... 3	
VN 121 Personal and Vocational Adjustments ..... 2	
VN 168 Clinical Practice III ..... 6	
<u>17</u>	

## Vocational Nursing Courses (VN)

121	<b>Personal and Vocational Adjustments</b> Introduction to health care delivery systems, professional organizations, mechanics of licensure and transition to graduate status.	2:2:0
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122	<b>Nutrition and Diet Therapy</b> Fundamental principles of basic nutrition, the relationship of food to normal health and the application of basic principles of nutrition to diet therapy in the treatment of disease.	2:2:0
133	<b>Pharmacology</b> This course is designed to introduce the student to pharmacology and the administration of medicines.	3:3:0
136	<b>Medical Surgical Nursing I</b> Specific theory in the diseases and conditions of integumentary, special sensory, respiratory, endocrine, muscular and cardiovascular systems.	3:3:0
137	<b>Medical Surgical Nursing II</b> Specific theory in the disease and conditions of gastrointestinal, genitourinary, male and female reproductive; nervous and skeletal systems.	3:3:0
138	<b>Obstetrical Nursing</b> Specific theory on the care of mothers and newborn infants.	3:3:0
139	<b>Pediatric Nursing</b> Specific theory on the care of sick children.	3:3:0
144	<b>Anatomy and Physiology</b> The primary objective is to introduce principles of the biological and physical sciences that contribute to the student's understanding of the human body process in normal and certain abnormal conditions.	4:4:0
163	<b>Nursing Skills II</b> Continuation of basic care skills, adding more complex skills such as drug administration, sterile technique and assisting with special procedures.	6:2:8
166	<b>Clinical Practice I</b> Introduction to basic needs of hospitalized adults and children.	6:0:24
167	<b>Clinical Practice II</b> Refinement of skills presented in Clinical Practice I with emphasis on nursing care needs of adults and children experiencing common medical-surgical problems.	6:0:24
168	<b>Clinical Practice III</b> Continues development of skills from previous Clinical Practice with introduction to basic care of the obstetrical patient and newborn infant.	6:0:24
175	<b>Nursing Skills I</b> Presentation of basic patient care skills; basic microbiology; mental health and illness; personal and professional ethical and legal responsibilities.	7:2:8

## Department of Psychology

Department Head: Richard G. Marriott

103 Psychology Building

Professors: Barrington, Bell

Associate Professors: Die, Esser, Marriott, Walker

Assistant Professors: Dubitsky, Lindoerfer, Weiner

### Bachelor of Arts — Psychology Major

The degree of Bachelor of Arts in Psychology will be awarded upon completion of the following:

1. General Requirements:
  - English Composition six semester hours
  - Literature six semester hours
  - Mathematics six semester hours
  - (A minimum of 3 semester hours at or above the level of Mth 1334)
  - Biology 141-142 General eight semester hours
  - Foreign Language 12 semester hours completion of the 232 course in a foreign language
  - Government 231, 232 American Government six semester hours
  - Sophomore American History six semester hours
  - Physical Activity four semesters
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 12 semester hours must be on the advanced level

3. Minor:  
An approved minor of 18 semester hours, a minimum of six semester hours must be on the advanced level
4. Electives:  
A sufficient number of approved electives to complete a total of 126 semester hours.

**Recommended Program of Study**

First Year	
Bio 141, 142 General Biology .....	8
Eng Composition .....	6
Foreign Language .....	6
Mth .....	6
Psy 131 Introduction to Psychology .....	3
PE Activity .....	2-4
	31-33

Second Year	
Eng Literature .....	6
Foreign Language .....	6
His Sophomore American History .....	6
Psy 241 Introduction to Statistical Methods .....	4
Electives .....	8
PE Activity .....	2-4
	32-34

Third Year	
Gov 231, 232 Introduction to American Government .....	6
Psy 342 Methods in Psychology .....	4
Psy Advanced 3 hrs .....	6
Minor .....	9
Electives .....	6
	31
Total 126 Hours	

Fourth Year	
Psy, Advanced .....	9
Minor .....	9
Electives .....	12
	30

**Bachelor of Science — Psychology Major**

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

1. General Requirements:  
 English Composition six semester hours  
 Literature six semester hours  
 \*Mathematics 6-12 semester hours; completion of Mth 236, 237 or the equivalent, maximum of 6 semester hours in computer science may be substituted for the 200 level mathematics courses upon completion of six semester hours in mathematics including Mth 1335.  
 Biology 141-142 General eight semester hours  
 Government 231, 232 American Government six semester hours  
 Sophomore American History six semester hours  
 Science eight semester hours  
 Physical Activity four semesters
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 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.

**Recommended Program of Study**

First Year	
Bio 141-142 General Biology .....	8
Eng Composition .....	6
Mth .....	6
Science .....	8
Psy 131 Introduction to Psychology .....	3
PE Activity .....	2-4
	33-35

Third Year	
Gov 231, 232 Introduction to American Government .....	6
Psy 342 Methods in Psychology.....	4
Psy, Advanced.....	6
Minor .....	6
Electives and other Psy .....	9
	34
Total 128 hours	

Second Year	
Eng Literature .....	6
Mth .....	6
Psychology .....	3
Psy 241 Introduction to Statistical Methods .....	4
Minor .....	6
Electives .....	3
PE Activity .....	2-4
	30-32

Fourth Year	
His Sophomore American History.....	6
Psy 443 Experimental Psychology .....	4
Psy Advanced.....	6
Minor .....	6
Electives and other Psy .....	9
	31

*\*Deviations from the Mth 236, 237 sequence require prior approval of department head.*

**\*Bachelor of Science in Psychology**

**\*Bachelor of Science in Biology**

First Year	
Bio 141, 142 General Biology .....	8
Chm 141, 142 General .....	8
Eng Composition .....	6
Mth 1335 Precalculus Mathematics.....	3
Psy 131 Introduction to Psychology .....	3
Psy 241 Introduction to Statistical Methods .....	4
PE Activity .....	2-4
	34-36

Summer	
Gov 231, 232 Introduction to American Government .....	6
PE Activity .....	2-4
Electives .....	6
	14-16

Fourth Year	
Bio 444 Vertebrate Natural History .....	4
Bio 416 Classical Biological Literature.....	1
Bio 446 Ecology .....	4
Bio 447 Cellular Biology .....	4
Bio Electives .....	8
Psy Elective Adv .....	3
Electives .....	13
	37

Second Year	
Chm 341, 342 Organic.....	8
Bio 240 Comparative Anatomy .....	4
Bio 342 Embryology.....	4
Psy 342 Methods .....	4
Eng Soph Literature .....	6
Mth 236 Calculus I .....	3
Mth 237 Calculus II .....	3
Psy Electives.....	3
	35

Third Year	
His Sophomore American History.....	6
Phy 141, 142 General .....	8
Bio 347 Genetics.....	4
Bio 344 Advanced Physiology .....	4
Psy 443 Experimental Psy .....	4
Psy Electives Adv 6 hrs.....	9
	35

\*Both degrees must be awarded simultaneously.

**Psychology Courses (Psy)**

120 Psychological Processes in Career Selection 2:2:0  
 A study of the factors influencing the decision making process and methods used in resolving conflicts regarding career selection. Includes lectures, administration of standardized interest inventories, self-exploration, and review of majors available to students.  
*Prerequisite: Undeclared majors or consent of instructor.*

- 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 as the scientific study of behavior and includes both human and animal behavior.
- 132 **Fields of Applied Psychology** 3:3:0  
A survey of the major fields of applied psychology such as personal and vocational adjustment, industrial-organizational psychology, consumer psychology and environmental psychology. Emphasis is on ways in which the principles of psychology can be applied to practical problems in life and work.  
*Prerequisite: Psy 131.*
- 234 **Child Psychology** 3:3:0  
A study of the growth and development of behavior patterns in children.
- 235 **Adolescent Psychology** 3:3:0  
A study of the growth and development of behavior patterns in adolescents.
- 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, tests of significance and introduction to non-parametric techniques.
- 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.*
- 330 **Psychology of Communication** 3:3:0  
A study of the theory, structure and function of communication patterns in various group settings.  
*Prerequisite: Psy 131.*
- 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.*
- 335 **Motivation** 3:3:0  
A study of contemporary concepts, theories and research in motivation.  
*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.*
- 337 **Psychology of Adjustment** 3:3:0  
A study of normal adjustment and commonly used defenses against anxieties.
- 339 **Psychology and Biology of Sexuality** 3:3:0  
Understanding of human sexuality through progressive study of conception and birth, through the development of sex roles, to the acquisition of sexual maturity and functioning in society. Credit may not be received for both Bio 339 and Psy 339.
- 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.*
- 4101,4201,4301 **Special Topics in Psychology** 1-3: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.*
- 434 **An Introduction to Group Psychotherapy** 3:3:0  
An introduction to the theory and techniques of group psychotherapy. Instruction will be combined with experimental learning of the basic skills used in group psychotherapy.  
*Prerequisite: Psy 131.*
- 435 **Leadership and Group Dynamics** 3:3:0  
A study of the nature, evaluation and utilization of intra and inter-personal forces producing behavior in various group structures.  
*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.*

## College of Technical Arts

Departments: Adult Training, Industrial, Related Arts, Technical

Kenneth E. Shipper, Ph.D., Dean

The College of Technical Arts provides technical and industrial education for thousands of men and women from Texas, other states and many foreign countries. It is housed in a modern plant consisting of six buildings containing 125,000 feet of classroom, shop and office space. The Cecil R. Beeson Technical Arts classroom and office building was completed for occupancy for the fall of 1977. Parking for 480 cars is provided adjacent to these buildings. Entrance to this area, located in the 4400 block of Spur 380 Beaumont-Port Arthur Highway, is on Lavaca Street. The Port Arthur and Orange campuses also offer similar courses and programs.

An Associate of Applied Science degree is awarded at the Beaumont campus in the following fields of study: business data processing; child care technology; drafting technology; diesel mechanics; fire protection technology; electrical technology; industrial electronics technology; industrial supervision; mid-management; machine tools; occupational safety and health; property tax administration; refrigeration and air conditioning technology; maintenance pipefitting; real estate; and welding.

A student may earn a diploma for satisfactorily completing Appliance Repair; electronics; marine construction; or office occupations.

The child care technology, industrial supervision, maintenance pipefitting, occupational safety and health, plant maintenance plate welding, real estate, and refrigeration programs have provisions for offering a Certificate of Completion when the specified course requirements have been satisfied.

## Associate Degree Programs

The College of Technical Arts offers career-oriented education in 17 degree programs in four departments in the College.



**Adult Training Programs**

Child Care Technology  
 Electrical Technology  
 Fire Protection Technology  
 Maintenance Pipefitting  
 Occupational Safety and Health

**Industrial Department**

Diesel Mechanics  
 Machine Tools  
 Refrigeration and Air Conditioning Technology  
 Welding

**Related Arts Department**

Business Data Processing  
 Industrial Supervision  
 Mid-Management  
 Property Tax Administration  
 Real Estate

**Technical Department**

Drafting Technology  
 Industrial and Electronics Technology

**Lamar University - Orange**

Drafting Technology  
 General Secretary  
 Industrial Electronics Technology  
 Industrial Supervision  
 Mid-Management  
 Real Estate  
 Technical Accounting  
 Welding

**Lamar University - Port Arthur**

Automotive Body Repair  
 Automotive Mechanics  
 Business Data Processing  
 Child Care Technology  
 Drafting Technology  
 Electronics Technology  
 General Secretary  
 Legal Secretary  
 Medical Secretary  
 Mid-Management  
 Welding  
 Word Processing

All of the above two-year programs are designed to give the student training prior to entry into an occupation. Successful completion of one of these programs should provide the student with sufficient knowledge, skill and confidence to enter and advance rapidly in a selected field.

The curriculum of each program is designed to allow a student to enter in any semester and is arranged so that a student can take supporting work in either the College of Technical Arts or in other colleges in the University.

Course descriptions and further information about the College of Technical Arts are included in a separate bulletin. Requests for copies of the College of Technical Arts catalog should be addressed to the Office of the Dean, College of Technical Arts, Box 10043, Lamar University Station, Beaumont, Texas 77710.

## College of Graduate Studies

Brock Brentlinger, Ph.D., Dean  
Howell H. Gwin, Jr., Ph.D., Director

### The Graduate College

The Dean of the College of Graduate Studies is responsible for the direction of graduate programs of the University. The Dean is assisted by the Graduate Council, a body that serves in an advisory capacity to the Dean. The Council consists of representatives from each College offering graduate degrees.

### Degrees Offered

#### Master of Arts in

English  
Government  
History

#### Master of Business Administration

#### Master of Education in

Elementary Education  
Guidance and Counseling  
School Administration  
Secondary Education  
Special Education  
Supervision

#### Master of Engineering

Master of Engineering Science  
Master of Music  
Master of Music Education

#### Master of Science in

Biology  
Chemistry  
Health and Physical Education  
Home Economics  
Mathematics  
Psychology  
Speech  
Theater  
Deaf Education  
Speech Audiology and Pathology

#### Master of Public Administration

Doctor of Engineering

### The Graduate Bulletin

The Graduate Bulletin contains a complete listing of courses, admission requirements and other information of value to graduate students. Requests for copies should be directed to the Office of the Dean of the College of Graduate Studies, Lamar University, Box 10004, Lamar University Station, Beaumont, Texas 77710.

### Admission to a Degree Program

1. For admission to a degree program the applicant must meet the following minimum standards and have submitted the following credentials to the office of Admissions and Records at least four weeks before registration.
  - A. An applicant must hold a bachelor's degree from an institution approved by a

recognized accrediting agency.

- B. Two official transcripts sent directly from each college previously attended.
- C. Scores on the aptitude section of the Graduate Record Examination (GRE) are sent directly to the Office of Admissions and Records by the Educational Testing Service. The Lamar Testing and Counselling Center, located in the Wimberly Student Affairs Building, administers the GRE. Application forms and information about the GRE are available at this center. Applicants for the Master of Business Administration are not required to take the GRE, but are required to take the Graduate Management Admission Test. (See the College of Business section of this Bulletin for specific requirements).

NOTE: GRE, GMAT or NTE scores more than five years old will be accepted only by special permission of the Graduate Dean/Director.

- D. Applicants for the Doctor of Engineering degree also should write a letter to the Dean of the College of Engineering. This letter should include information about the applicant, engineering experience, present employment and chief interests. Applicants also should indicate what type of work they would like to undertake for their field study.
- E. All students are required to complete the University Health Form.
- F. An application for admission sent to the Office of Admissions and Records.
- G. The applicant's undergraduate grade point average and GRE scores must be above the minimum standard established by the college of Graduate Studies. For all students, except those wishing to pursue the Master of Business Administration degree, one of the following requirements for admission must be met:

- (1) A minimum overall grade point average of 2.5 on a four point scale, and a minimum composite score, (verbal, quantitative and analytical), of 1100 on the aptitude section of the GRE.
- (2) A minimum grade point average of 2.5 on the last 60 hours of undergraduate course work and a minimum composite score of 1100 on the aptitude section of the GRE.
- (3) A grade point average lower than 2.5 but with a score of at least 540 on an appropriate section or the GRE aptitude test. A composite score of 1100 is also required. Departmental requirements are as follows:

540 in either V or Q	540 in V	540 in Q
Biology	English	Audiology
Education	History	Chemistry
Government	Speech	Engineering
HPE (Men and Women)	Speech Pathology	Mathematics
Home Economics		
Music		
Psychology		
Public Administration		

- (4) A minimum overall grade point average of 2.5 on a four point scale and a score at or above the 25th percentile on the appropriate Advanced Test of the GRE, (appropriate test will be determined by the department in which the graduate program is offered), or, in the case of students applying to the College of Education, a score at or above the 25th percentile on the appropriate Area Exam of the National Teachers Examination. This does not exempt students from submitting GRE aptitude scores before admission.
- (5) A minimum overall grade point average of 3.0 on all work and the recommendation of the department in which the graduate program is offered. This does not exempt students from submitting GRE aptitude scores prior to admission.
- (6) The Graduate Council has approved higher standards for admission to some programs. These are stated in the particular departmental section of this Bulletin.

2. Students wishing to pursue the Master of Business Administration degree should refer to the College of Business section of the Graduate Bulletin 57 for specific requirements.
3. Provisional admission to a degree program for one term may be granted to some applicants who show promise of the ability to successfully complete a graduate degree program, but who have not submitted the necessary credentials, (see above), four weeks before registration. Students admitted with provisional admission may not register for more than twelve hours graduate credit and must submit all required credentials and meet the minimum standards stated above during the first term. Provisional admissions may not be extended past one term, and students so admitted who do not meet the minimum standards will not be allowed to re-enroll. International students will not be admitted on a provisional basis.
4. Admissions requirements for international students are evaluated on an individual basis after the following information is received:
  - A. Two official transcripts from each college previously attended. Complete and official English translations must be furnished along with the certified copies of the transcripts.
  - B. Scores on the aptitude section of the GRE and scores on the Test of English as a Foreign Language, (TOEFL), must be submitted. In general, an international student whose native language is not English is expected to score 500 or above on the TOEFL and over 1100 on the aptitude section of the GRE. Application form, test scores, financial statement and complete educational records for international students must be on file by the dates indicated: term beginning in August, by June 15; January, by November 1; June by March 15. An original statement of financial resources. The University provides a form for this purpose. Other forms will not be accepted.
5. Any other applicant whose native language is not English and who attended foreign secondary schools, colleges, or universities must submit TOEFL scores of 500 or above in addition to the requirements stated above. Individual departments may require even higher scores.
6. A student who wishes to pursue graduate work in any area for which he/she has not had the prerequisites will be required to make up deficiencies as prescribed 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.
7. Admission to the College of Graduate Studies does not imply candidacy for a degree.
8. The dean of admissions will notify the applicant upon admission to the College of Graduate Studies. All transcripts, certificates, etc. become the property of Lamar University and are not returnable.
9. Admission requirements stated above are minimum requirements. The applicant must also have the approval of the departments in which the degree program is offered.

## 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 of Graduate Studies, may be admitted as Post Baccalaureate students in one of the undergraduate colleges under the following conditions:
  - A. The applicant must hold the bachelor's degree.
  - B. The applicant must submit an application for admission to the Post Baccalaureate program.
  - C. The applicant must submit official transcripts from each college previously attended.
  - D. The applicant must complete the University Health Form.

- E. The applicant must be approved for admission by the dean of admissions.
2. International students will not be admitted to the Post Baccalaureate Program.
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 12 semester hours previously completed *may* be counted for degree credit with the approval of the department and the Graduate Dean/Director.
4. No post baccalaureate student will be allowed to use hours in excess of this amount for graduate degree credit.
5. Post baccalaureate students pursuing the MBA degree are not permitted to enroll in Business courses for graduate credit. They may, however, take undergraduate courses to remove academic deficiencies.

## Directory of Personnel 1984-85

### Board of Regents

Lloyd Hayes, Chairman .....	Port Arthur
A.H. (Bob) Montagne, vice chairman .....	Orangefield
Hubert Oxford, III, Secretary .....	Beaumont
Otho Plummer, Chairman Emeritus .....	Beaumont
Thomas M. Maes, II .....	Beaumont
W. Donham Crawford .....	Beaumont
B.A. (Mark) Steinhagen .....	Beaumont
Merlin P. Breaux .....	Sour Lake
George A. Dishman, Jr. ....	Beaumont

### General Administration

Kemble, C. Robert, <i>Ph.D.</i> , <i>President</i>
Johnson, Andrew J., <i>Ph.D.</i> , <i>Executive Associate to the President</i>
Geddes, David D., <i>Ph.D.</i> , <i>Vice President for Academic Affairs</i>
Leonard, W. S., <i>M.S.</i> , <i>Vice President for University Relations</i>
Baxley, Oscar K., <i>M.B.A.</i> , <i>Vice President for Finance</i>
McLaughlin, George E., <i>Ed.D.</i> , <i>Vice President for Student Affairs</i>
Johnson, Philip L., <i>Ph.D.</i> , <i>Executive Director, John E. Gray Institute</i>
Wooster, Ralph A., <i>Ph. D.</i> , <i>Dean of Faculties</i>

### Academic Administration

Brentlinger, W. Brock, <i>Ph.D.</i> , <i>Dean, College of Fine and Applied Arts and Dean, Graduate Studies</i>
Bell, Myrtle L., <i>Ed.D.</i> , <i>Dean, College of Health and Behavioral Sciences</i>
Idoux, John, <i>Ph. D.</i> , <i>Dean, College of Arts &amp; Sciences</i>
Johnston, Maxine, <i>M.L.S.</i> , <i>Director of Library Services</i>
Monroe, W. Sam, <i>LL.D.</i> , <i>Provost, 1234 Lamar University at Port Arthur</i>
Rode, Elmer G., Jr., <i>M.Ed.</i> , <i>Dean of Admissions and Registrar</i>
Ryan, John A., <i>Ph.D.</i> , <i>Dean, College of Business</i>
Schnur, James O., <i>Ed.D.</i> , <i>Dean, College of Education</i>
Shipper, Kenneth E., <i>Ph.D.</i> , <i>Dean, College of Technical Arts</i>
Welch, Joe Ben, <i>Ed.D.</i> , <i>Provost, 1234 Lamar University at Orange</i>
Young, Fred M., <i>Ph.D.</i> , <i>Dean, College of Engineering</i>

### Faculty 1984-85

The following list reflects the status of the Lamar University faculty as of August, 1983. The date following each name is the academic year of first service to the University and does not necessarily imply continuous service.

Achee, Henri A., Jr. 1980, <i>Reference Librarian, Instructor</i> B.A., M.L.S., Louisiana State University
Achilles, Robert F. 1963, <i>Regents' Professor of Speech</i> B.S., McPherson College; M.A., Ph.D., Wichita State University
Akers, Hugh A. 1977, <i>Associate Professor of Chemistry</i> B.S., University of California, Riverside; Ph.D., University of California, Berkeley
Allen, Charles L. 1979, <i>Associate Professor of Economics</i> B.A., East Texas State University; M.A., Ph.D., University of Arkansas
Allen, Joel L. 1960, <i>Assistant Professor of Economics</i> B.S., Arkansas Agricultural and Mechanical College; M.S., Baylor University
Altomose, John R., Jr. 1973, <i>Professor of Criminal Justice</i> A.B., Davidson College; M.A., Ph.D., Sam Houston State University

- Anderson, Adrian N. 1967, *Professor of History and Head, Department of History*  
B.S., M.A., Ph.D., Texas Tech University
- Anderson, Virginia N. 1960, *Assistant Professor of Home Economics*  
B.S., Georgia State College for Women; M.Ed., Trinity University
- 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
- Atteberry, Phillip D. 1983, *Adjunct Instructor, English and Foreign Languages*  
B.A. University of Evansville; M.A., Washington University
- Autrey, Bruce C. 1983, *Adjunct Instructor, English and Foreign Languages*  
B.A., University of North Carolina, Chapel Hill; M.A. East Carolina University
- Aycock, Norma M. 1962, *Instructor III of Nursing, Regents' Professor*  
B.A., Ottawa University; M.Ed., McNeese State University; Registered Nurse
- Babin, Louis Randolph 1968, *Instructor of Music*  
B.M.Ed., M.M.Ed., Louisiana State University
- Baechle, Michael A. 1981, *Assistant Professor of Communication*  
B.S., Northwestern University; M.S., Indiana University; Ph.D., Northwestern University
- Bailey, Gail P. 1975, *Assistant Professor of Dental Hygiene*  
B.S., M.Ed., Lamar University; Registered Dental Hygienist
- Baj, Joseph A., II 1964, *Associate Professor of Mathematics*  
B.A., Kent State University; M.A., University of Texas
- Baker, Barbara C. 1983, *Adjunct Instructor of Related Arts*  
B.A., M.A. University of Southwestern Louisiana
- Baker, Christopher P. 1976, *Assistant Professor of English*  
B.A., St. Lawrence University; M.A., Ph.D., University of North Carolina
- Baker, Harold T. 1962, *Professor of Chemistry*  
B.S., University of Minnesota; Ph.D., State University of Iowa
- Baker, Mary Alice 1969, *Assistant Professor of Speech and Director of Forensics*  
B.S., M.A., University of Oklahoma
- Barlow, H. A. 1951, *Associate Professor of Accounting, Regents' Professor*  
B.S., Louisiana Tech University; M.B.A., Louisiana State University; Certified Public Accountant
- Barnes, Cynthia 1982, *Assistant Professor of Office Administration*  
B.S. Howard Payne University; MEd., Texas Tech University; Ed.D. North Texas State University.
- Barnes, Robert J. 1960, *Regents' Professor of English*  
B.A., M.A., University of Kansas; Ph.D., University of Texas
- Barrett, Mary French 1959, *Assistant Professor of Music*  
B.M., M.M., Eastman School of Music, University of Rochester; Performer's Certificate, Eastman School of Music
- Barrington, Billy Ray 1967, *Professor of Psychology*  
B.S., Southwest Texas State University; M. Ed., Sam Houston State University; Ph.D., University of Houston
- Beale, Luther A. 1955, *Professor of Civil Engineering and Head, Department of Civil Engineering*  
B.S., M.S., Georgia Institute of Technology; Ph.D., University of Texas; Registered Professional Engineer
- 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, *Assistant Professor of Biology*  
B.A., Indiana University; M.S., Northeast Louisiana University; Ph.D., Saint Louis University
- Bell, Alice C. 1971, *Professor of Health, Physical Education and Dance, Associate Athletic Director for Womens Athletics*  
B.S., M.A., Ph.D., Texas Woman's University
- Bell, James W. 1983, *Lecturer for Health, Physical Education and Dance and Assistant Football Coach*  
B.S.E. University of Central Arkansas

- Bell, Myrtle L. 1963, *Professor of Psychology and Dean, College of Health and Behavioral Sciences*  
B.S., M.S., Texas A&I University; Ed.D., University of Texas
- Bennett, Richmond O. 1957, *Professor of Accounting*  
B.S., M.S., Texas A&M University; Ph.D., University of Texas; Certified Public Accountant
- Benton, Ronald E. 1983, *Adjunct Instructor English and Foreign Languages*  
B.A., M.A., Lamar University
- Berthiaume, Gerald B. 1978, *Instructor of Music*  
B.M., University of Puget Sound; M.M., New England Conservatory of Music
- Berzsenyi, George 1969, *Professor of Mathematics*  
B.A., University of Dallas; M.S., Ph.D., Texas Christian University
- Berzsenyi, L. Kay 1982, *Adjunct Instructor of Computer Science*  
B.A., University of Dallas; M.A., Texas Christian University; B.S., Lamar University
- Bilici, Hamdi 1981, *Assistant Professor of Finance*  
B.S., Istanbul University; M.B.A., Ph.D., Louisiana Tech University
- Bilici, Lutchminia 1981, *Adjunct Instructor of Computer Science*  
B.S., Inter American University-Puerto Rico; M.S., Louisiana Tech University
- Blanks, Patricia, 1982, *Adjunct Instructor of Education*  
B.A., Kansas State University; M.A., Our Lady of the Lake
- Bonton, Donald R. 1981, *Instructor I of Drafting*  
A.A.S., Lamar University
- Bost, David L. 1949, *Professor of Education*  
B.A., Hardin-Simmons University; M.J., University of Texas; Ph.D., East Texas State University
- Boughton, James K. 1980, *Adjunct Associate Professor of Mechanical Engineering*  
B.S., Illinois Institute of Technology; M.S., Lamar University; Registered Professional Engineer
- Boyd, Sandra M. 1979, *Assistant Professor of Nursing, Director of Vocational Nursing Program*  
B.S.N., Wayne State University; M.S., University of Houston; Registered Nurse
- Brazell, Wayne 1982, *Assistant Professor of Education*  
B.S., M.Ed., University of South Carolina, Ph.D. University of Georgia
- Brenizer, Joan E. 1957, *Associate Professor of Mathematics*  
B.S., Lamar University; M.A., University of Texas
- Brennan, James J. 1968, *Professor of Industrial Engineering*  
B.S.E.E., Iowa State University of Science and Technology; M.S.I.E., University of Arkansas;  
Ph.D., University of Texas; Registered Professional Engineer
- Brentlinger, W. Brock 1969, *Professor of Speech, Dean, College of Fine and Applied Arts and Graduate Studies*  
B.A., Greenville College; M.A., Indiana State University; Ph.D., University of Illinois
- Briggs, Kenneth R. 1966, *Regents' Professor of Education, Director Lamar University Teacher's Center*  
B.S., M.Ed., Ed.D., North Texas State University
- Bronson, Paul A. 1976, *Clinical Instructor of Respiratory Technology, Program Director of Respiratory Technology*  
B.S., Southern Colorado State College; Registered Respiratory Therapist
- Brookner, Ralph G. 1981, *Associate Professor of Mathematics*  
B.A., Rice University; M.A., University of Michigan; Ph.D., Columbia University
- Brooks, Alvin 1982, *Lecturer Health, Physical Education and Dance and Assistant Basketball Coach*  
A.S. Henderson Junior College; B.A., Lamar University
- Brown, Otto George 1962, *Professor of Mechanical Engineering, Head, Department of Mechanical Engineering*  
B.S., University of Oklahoma; M.S., Ph.D., University of Texas; Registered Professional Engineer
- Bruneau, Odette 1982, *Assistant Professor of Education*  
B.S., University of Minnesota; M.A., College of St. Thomas; Ph.D., Texas Woman's University
- Brust, Melvin R. 1978, *Assistant Professor of Management and Finance*  
B.S.E.E., M.S.E.E., University of Texas; Ph.D., North Texas State University; Registered Professional Engineer
- Bruyere, John Alan 1957, *Associate Professor of Mechanical Engineering*  
B.S., M.S., University of Texas; Registered Professional Engineer



- Bruyere, John Alan 1957, *Associate Professor of Mechanical Engineering*  
B.S., M.S., University of Texas; Registered Professional Engineer
- Bryan, George A., Jr. 1964, *Assistant Professor of Biology*  
B.S., University of Texas at El Paso; M.S., The Pennsylvania State University
- Burke, Charles M. 1970, *Professor of Education*  
B.A., Southeastern Louisiana University; M.Ed., Louisiana State University; Ed.D., University of Southern Mississippi
- Burke, William T. III 1982 *Assistant Professor of Business Law*  
B.A., Morehouse College; J.D., Howard University Law Center.
- Bussell, Karen A. 1979, *Lecturer of Health, Physical Education and Dance, Women's Swim Coach and Aquatics Director*  
B.S., Texas Tech University; M.S., Lamar University
- Calvert, Patricia H. 1979, *Lecturer of Health, Physical Education and dance Womens Softball Coach and administrative assistant to Associate Athletic Director for women's athletics*  
B.S., M.S., Lamar University
- Cameron, Margaret D. 1956, *Regents' Professor of Chemistry*  
B.A., Texas Woman's University; M.S., University of Houston; Ph.D., Tulane University
- Campbell, Jerry W. 1976, *Instructor II of Diesel Mechanics*  
C.C., AAS, Lamar University
- Carley, Wayne W. 1983, *Assistant 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
- Carlucci, Joseph B. 1971, *Professor of Music*  
B.M., M.M., Yale University; D.M.A., Eastman School of Music, University of Rochester
- Carroll, David J. 1975, *Instructor, Head, Catalog Department*  
B.A., Kansas State University; M.L.S., University of Denver
- Carroll, John M. 1972, *Associate 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., The University of Texas at Arlington; Registered Professional Engineer
- Cass, Michael 1981, *Assistant Professor of Education*  
M.A., Ed.D., University of Alabama
- Cater, Alice W. 1974, *Instructor III of Real Estate*  
B.B.A., Southern Methodist University; M.B.A. University of Texas
- Chern, Shui-Sheng, 1983, *Assistant Professor of Mechanical Engineering*  
B.S., M.S., National Tsing-Hua University, Taiwan; Ph.D., University of Minnesota
- Cherry, Richard T. 1966, *Regents' Professor of Finance, Head, Marketing, Management and Finance*  
B.A., Texas A&M University; M.A., Ph.D., University of Texas
- Choi, Jai-Young 1982, *Assistant Professor of Economics*  
B.A., Yonsei University; M.A., University of Kansas; Ph.D., University of Oklahoma
- Chu, Hsing-wee 1979, *Assistant Professor in the Department of Industrial Engineering*  
B.S., Tunghai University; M.S., Asian Institute of Technology; Ph.D., University of Texas
- Chudzinski, James 1983, *Assistant Professor of Economics*  
B.S., University of Tulsa; M.A. Ball State University.
- Churan, Esther 1961, *Instructor, Head, Acquisitions Department*  
B.A., B.S., Texas Woman's University
- Clark, Lynnwood M., Jr. 1972, *Instructor II of Business Data Processing*  
B.S., Lamar University
- Coates, Nita F. 1979, *Instructor I of Drafting Technology*  
A.A.S., Lamar University
- Collier, J. N. 1955, *Associate Professor of Music*  
B.M., University of Houston; M.M., Southern Methodist University
- Coody, Betty 1963, *Regent's Professor of Education*  
B.A., East Texas State University; M.Ed., Ph.D., University of Texas

- 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, Roger W. 1978, *Assistant Professor of Geology*  
B.A., University of South Dakota; M.S., University of Nebraska; Ph.D., University of Minnesota
- Cowan, Russell W. 1966, *Professor of Mathematics*  
A.B., M.A., Ph.D., University of California, Berkeley
- Crawford, Katrinka J. 1981, *Lecturer Health, Physical Education and Dance and 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
- Croley, John S. 1980, *Assistant Professor of Accounting*  
B.A., Lamar University; J.D., University of Houston; L.L.M., New York University, Graduate  
College of Law; Certified Public Accountant
- Crowder, Vernon Roy 1967, *Professor of Health, Physical Education and Dance*  
B.S., Lamar University; M.S., Ph.D., Louisiana State University
- Crum, Floyd M. 1955, *Regents' Professor of Electrical Engineering*  
B.S., M.S., Louisiana State University; Registered Professional Engineer
- Culbertson, Robert M., Jr. 1974, *Assistant Professor of Music*  
B.M., Northern Illinois University; M.M., University of Wisconsin
- Daigrepont, Lloyd M. 1981, *Adjunct Instructor of English and Foreign Languages*  
B.A., M.A., Ph.D., Louisiana State University
- Daniali, Saeed 1981, *Assistant Professor of Civil Engineering*  
B.S., Tehran Polytechnique; M.S., School of Engineering of Strasbourg; Ph.D., University of  
Lille Registered Professional Engineer
- Danna, John C. 1979, *Instructor II of Drafting Technology*  
A.A.S., Lamar University
- Darsey, Nancy S. 1955, *Professor of Office Administration and Head, Department of Administrative  
Services*  
B.B.A., M.B.A., Texas Tech University; Ph.D., Louisiana State University
- Davidson, Jane S. 1970, *Associate Professor of Home Economics*  
B.S., Texas Woman's University; M.S., Sam Houston State University; Ph.D., Texas Woman's  
University
- Davis, Elvis C. 1956, *Associate Professor of Accounting*  
B.B.A., Lamar University; M.B.A., University of Arkansas; Certified Public Accountant
- Dennis, Gwendolyn F. 1981, *Instructor of Nursing*  
B.S.N., Prairie View A&M University; Registered Nurse
- De Rose, Peter L. 1975, *Assistant Professor of English*  
B.A., Fordham University; Ph.D., Indiana University
- Dickey, Sandra 1981, *Clinical Instructor of Nursing*  
B.S.N., Lamar University; Registered Nurse
- Die, Ann M. 1977, *Associate Professor of Psychology*  
B.S., Lamar University; M.Ed., University of Houston; Ph.D., Texas A&M University
- Dietert, Linda 1980, *Instructor, Head Interlibrary Loans Department*  
B.A., University of Texas at Arlington; M.L.S., North Texas State University
- Diltz, Betty J. 1979, *Clinical Instructor of Nursing*  
B.S.N., Lamar University; Registered Nurse
- Dingle, Robert L. 1959, *Associate Professor of Mathematics*  
B.S., M.Ed., University of Houston; M.S., University of Arkansas
- Dorrell, Jean T. 1956, *Assistant Professor of Office Administration*  
B.S., Northwestern Louisiana University; M.Ed., Louisiana State University
- Dorris, Kenneth L. 1965, *Associate Professor of Chemistry*  
B.S., Ph.D., University of Texas
- Drapeau, Richard A. 1983, *Assistant Professor of Business Statistics*  
B.S., Arizona State University; MBA Lamar University; Ph. D. Texas A&M University.

- Drenan, Raymond L. 1962, *Associate Professor of Sociology*  
B.S., University of Illinois, M.P.S., University of Colorado
- Droddy, Frances B., 1983, *Instructor of Child Care Technology*  
B.S., Northwestern University; M.S., Lamar University
- Drury, Bruce R. 1971, *Professor of Government*  
B.A., M.A., University of Nebraska; Ph.D., University of Florida
- DuBose, Elbert T., Jr. 1974, *Assistant Professor of Government*  
B.A., Southwest Texas State University; M.A., Texas Tech University; Ph.D., University of Oklahoma
- Dugger, Linda J. 1970, *Assistant Professor, Head, Serials Department*  
B.A., M.L.S., North Texas State University
- Dunlap, Helen Laverne 1980, *Clinical Instructor of Nursing*  
Diploma, Sacred Heart Dominican College; Registered Nurse
- Dunn, Frieda 1976, *Assistant Professor of Dental Hygiene and Director, Dental Hygiene Program*  
B.S., Baylor University; M.S., University of Missouri-Kansas City; Registered Dental Hygienist
- Durgin, Thomas R. 1980, *Instructor I of Industrial Electronics Technology*
- Dyess, Wayne J. 1977, *Instructor of Music*  
B.M., Stephen F. Austin State University; M.M., Catholic University of America
- Eads, Ewin A. 1946, *Professor of Chemistry, Director of Environmental Science Program*  
B.S., M.S., North Texas State University; Ph.D., Tulane University
- Eddy, Louise 1978, *Instructor of Speech*  
B.S., M.S., Lamar University
- Ellery, Jon C. 1983, *Adjunct Instructor English and Foreign Languages*  
B.F.A., Arkansas Tech University; M.A., University of Arkansas
- Elliff, Connie Jo 1976, *Instructor of Home Economics*  
B.S., Southwest Texas State University; M.S., Kansas State University; Registered Dietitian
- Elliott, Eric G. 1983, *Instructor of Economics*  
B.A. Eastern Illinois University; M.A. University of Texas
- Ellis, M. Leroy 1969, *Professor of Modern Languages*  
B.A., M.A., University of South Carolina; Ph.D., University of Aix-Marseille
- Emmons, Winfred S., Jr. 1955, *Professor of English*  
B.A., Louisiana Tech University; M.A., University of Virginia; Ph.D., Louisiana State University
- Esperat, Maria Christina 1979, *Assistant Professor of Nursing*  
B.S.N., M.S.N., Silliman University; Registered Nurse
- Farran, Hany Jamil 1983, *Assistant Professor of Civil Engineering*  
B.S.C.E., M.S.C.E., Tennessee Technological University; Ph.D., West Virginia University; Registered Professional Engineer
- Fatino, Betty W. 1982, *Assistant Professor of Social Work*  
B.S., Lamar University; M.S., University of Houston
- Fearing, Ruth O. 1980, *Instructor of Dental Hygiene*  
B.S., Northeastern University; M.S., Boston University School of Dentistry; Registered Dental Hygienist
- Fitzgerald, Meredith K. 1970, *Assistant Professor of Education*  
B.A., Bethel College; M.A., George Peabody College for Teachers
- Fitzgerald, William T. 1951, *Associate Professor of Biology*  
B.S., Bethel College; M.A., George Peabody College for Teachers
- Fitzpatrick, Phillip M. 1977, *Instructor of Art*  
B.F.A., M.F.A., Auburn University
- Fontenot, Cynthia C. *Adjunct Instructor of Accounting*  
B.A., M.B.A., Lamar University, Certified Public Accountant
- Foster, Pat 1980, *Lecturer of Health, Physical Education and Dance; Head Basketball Coach and Athletic Director*  
B.S., University of Arkansas
- Francis, Nathan Travis 1962, *Associate Professor of Modern Languages*  
B.A., Texas Tech University; M.A., Texas Christian University; Ph.D., Texas Tech University

- Frazier, Robert L. 1974, *Associate Professor of Criminal Justice*  
B.S., M.A., Ph.D., Sam Houston State University
- Frederick, Bob L. 1965, *Assistant Professor of Health, Physical Education and Dance and director Activity Programs*  
B.S., Lamar University; M.S., University of Texas
- Frederick, Maurice, 1982, *Instructor I of Refrigeration & Air Conditioning Technology*
- Friszell, Harry L. 1958, *Professor of English*  
B.A., Southwestern University; M.A., Ph.D., Vanderbilt University
- Gardner, Kathryn A. 1979, *Instructor I of Business Data Processing*  
B.B.A., Lamar University
- Gates, David G. 1963, *Professor of Industrial Engineering*  
B.S., M.S., University of Arkansas; Ph.D., Oklahoma State University; Registered Professional Engineer
- Gates, Donald 1983, *Assistant Professor of Home Economics*  
B.S., M.S., Southern Illinois University; Ed. D. Indiana University
- Georgas, Marilyn D. 1962, *Professor of English*  
B.A., Sam Houston State University; M.A., Lamar University; Ph.D., University of Texas
- German, Harvey N. 1982, *Adjunct Instructor, English and Foreign Languages*  
B.A., McNeese; M.A., University of Texas
- Ghezzi, Debby L. 1980, *Lecturer of Health, Physical Education and Dance, Women's Tennis Coach*  
B.S., M.Ed., Ohio University
- Gilligan, James P. 1972, *Instructor of Health, Physical Education and Dance, Baseball Coach*  
B.S., M.S., Lamar University
- Gilmore, Patricia 1980, *Clinical Instructor of Nursing*  
B.S.N., University of Texas at San Antonio; Registered Nurse
- Godkin, Roy Lynn 1981, *Assistant Professor of Management*  
A.B., Bethany Nazarene College; M.B.E., Nazarene Theological Seminary; M.A., Sangamon State University; Ph.D., North Texas State University
- Godwin, Sharon G. 1981, *Clinical Instructor of Allied Health*  
B.S., Northwestern State University; Registered Radiographer
- Goetz, George R. 1968, *Assistant Professor of Management*  
B.S., Saint Edward's University; M.B.A., Lamar University
- Goines, Oscar T. 1961, *Assistant Professor of Physics*  
B.S., Stephen F. Austin State University; M.S., Texas A&M University
- Green, Annie Sue 1964, *Assistant Professor of Mathematics*  
B.A., M.S., Lamar University
- Green, Marcia L. 1972, *Instructor III of Related Arts*  
B.A., Bishop College; M.A., Stephen F. Austin State University; M.Ed., Lamar University; Ph.D. Texas Woman's University
- Green, Steve 1981, *Lecturer, Health, Physical Education and Dance and Assistant Basketball Coach*  
B.S.E., Oklahoma Christian College
- Greenockle, Karen M. 1974, *Instructor of Health, Physical Education and Dance*  
B.S., Texas Christian University; M.S., Lamar University (On Leave of Absence)
- Gregory, O. Delilah 1973, *Clinical Instructor of Nursing*  
B.S.N., University of Texas Medical Branch, Galveston; Registered Nurse
- Gremillion, Rae R. 1961, *Assistant Professor of Health, Physical Education and Dance*  
B.S., M.S., Northwestern State University of Louisiana
- Griffin, Vernon H. 1970, *Professor of Education*  
B.S., M.Ed., Sam Houston State University; Ed.D., University of Houston
- Grost, Gregg 1981, *Lecturer of Health, Physical Education and Dance*  
B.S. Texas Christian University
- Grubbs, Donald R. 1974, *Instructor II of Welding*  
B.S., Lamar University
- Grubert, John P. 1981, *Associate Professor of Civil Engineering*  
B.S., M.Phil., London University; Ph.D., City University Chartered Engineer (UK)

- Gwin, Howell H., Jr. 1962, *Professor of History and Director of Graduate Studies*  
B.A., M.A., Ph.D., Mississippi State University
- Gwynn, Robert S. 1976, *Assistant Professor of English*  
A.B., Davidson College; M.A., M.F.A., University of Arkansas
- Haiduk, Michael 1983, *Assistant Professor of Biology*  
B.S., M.S., Texas A&M University
- Hale, Elizabeth Ann 1979, *Instructor of Nursing*  
B.S.N., University of Texas at Houston; M.S.N., University of Texas at Galveston; Registered Nurse
- Hansen, Keith C. 1967, *Professor of Chemistry, Head, Department of Chemistry*  
B.S., Lamar University; Ph.D., Tulane University
- Hargrove, W. Richard 1964, *Professor of Education*  
B.S., M.Ed., North Texas State University; Ed.D., George Peabody College for Teachers
- Harmon, Anne 1959, *Associate Professor of Chemistry*  
B.S., Monmouth College; M.S., Baylor University
- Harrel, Richard C. 1966, *Professor of Biology*  
B.S., East Central State College; M.S.Ed., University of Georgia; Ph.D., Oklahoma State University
- Harris, Carolyn R. 1983, *Adjunct Instructor of Computer Science*  
B.A., Texas Tech University; M.S., University of Mississippi
- Harrigan, W. Patrick, III 1969, *Associate Professor of Speech*  
B.S., Loyola University; M.F.A., Tulane University; Ph.D., Louisiana State University
- Harris, Robert 1979, *Instructor I of Machine Tools*  
A.A.S., Lamar University
- Harris, William T. 1983, *Associate Professor of Accounting*  
B.B.A., M.B.A., Texas Tech University; Ph.D., Louisiana State University, Certified Public Accountant
- Hartford, William 1947, *Instructor III of Job Relations*
- Harvill, John F. 1965, *Assistant Professor of Mathematics*  
B.S., M.S., Northwestern State University of Louisiana
- Haven, Sandra L. 1973, *Assistant Professor of Education*  
B.S., Lamar University; M.A., Central Michigan University; Ed.D., University of Houston
- Hawker, James R. 1967, *Professor of Psychology*  
B.S., University of Southern Mississippi; Ph.D., University of Texas
- Hawkins, Charles F. 1966, *Associate Professor of Economics, Regents' Professor*  
B.A., Lamar University; M.A., Ph.D., Louisiana State University
- Higgins, James B. 1949, *Professor of Health, Physical Education and Dance and Athletic Director Emeritus*  
B.A., Trinity University; M.Ed., University of Houston
- Hill, Rebecca O. 1965, *Assistant Professor of Health, Physical Education and Dance*  
B.A., Butler University; M.A., University of Michigan
- Hinchey, Jane A. 1968, *Assistant Professor of Home Economics*  
B.S., Winthrop College; M.S., University of Tennessee
- Hogue, Bradley B. 1967, *Professor of Education*  
B.A., M.Ed., Southern Methodist University; Ed.D., North Texas State University
- Holcomb, Richard E. 1983, *Instructor of Theater*  
B.A., M.A., Midwestern University
- Holland, DeWitte T. 1971, *Professor of Speech*  
B.S., United States Merchant Marine Academy; A.B., Howard College; B.D., Southern Baptist Theological Seminary; M.A., University of Alabama; Ph.D., Northwestern University
- Holland, Mary M. 1976, *Instructor, Head, Documents/Special Collections*  
A.B., Birmingham Southern College; M.L.S., Drexel University
- Holm, Belle Mead 1963, *Professor of Health, Physical Education and Dance, Division Head of Health, Physical Education and Dance and Assistant Dean*  
B.S., M.S., George Peabody College for Teachers; Ph.D., Texas Woman's University

- Holmes, Paul W. 1953, *Associate Professor of Music*  
B.M., Hardin-Simmons University; M.M., University of Texas
- Holt, Marion W. 1960, *Associate Professor of History*  
B.A., Hendrix College; M.A., Louisiana State University
- Holt, Virginia Raye 1975, *Associate Professor of Health, Physical Education and Dance*  
B.S., Georgia State College for Women; M.S., Baylor University; Ed.D., University of Tennessee
- Hopper, Jack R. 1969, *Professor of Chemical Engineering and Head, Department of Chemical Engineering*  
B.S., Texas A&M University; M.Ch.E., University of Delaware; Ph.D., Louisiana State University; Registered Professional Engineer
- Howes, Suzan D. 1983, *Adjunct Instructor, Geology*  
B.A., Franklin & Marshall College; M.A., Southern Illinois University
- Hudson, Jean Marie 1951, *Assistant Professor of Accounting*  
B.A., Carleton College; M.A., University of Oklahoma; Certified Public Accountant
- Huffstickler, Charles R. 1982, *Lecturer of Health, Physical Education and Dance and Assistant Football Coach*  
B.S.E., University of Central Arkansas
- Hunt, Madelyn D. 1973, *Assistant Professor of Biology*  
B.S., Lamar University; M.P.H., University of Texas School of Public Health; Registered Medical Technologist (A.S.C.P.)
- Hutchings, Henry, III 1964, *Assistant Professor of English*  
B.A., M.A., Southern Methodist University
- Huval, Martha J. 1978, *Clinical Instructor of Radiologic Technology*  
B.S., Lamar University; Registered Radiographer
- Idoux, John P. 1983, *Professor of Chemistry, Dean College of Arts and Sciences*  
B.S., St. Thomas University; M.S., Ph.D., Texas A&M University
- Ingalls, Arthur B. 1981, *Captain/Assistant Professor of Military Science*  
B.A., Stephen F. Austin State University
- Ingalls, Margaret 1982, *Adjunct Instructor, English & Foreign Languages*  
B.A. Stephen F. Austin; M.A., Auburn University
- Ingham, Marion F. 1983, *Adjunct Instructor, English & Foreign Languages*  
B.A., Somerville College; M.A., Cornell University
- Isaac, Paul E. 1960, *Regents' Professor of History*  
B.A., Pepperdine College; M.A., Ph.D., University of Texas
- Jack, Meredith M. 1977, *Assistant Professor of Art*  
B.F.A., University of Kansas; M.F.A., Temple University
- James, S. Walker 1965, *Professor of Speech, Director of Theater*  
B.A., M.A., Baylor University; M.F.A., Case Western Reserve University; Ph.D., University of Denver
- Jarrell, Ben M. 1973, *Instructor III of Refrigeration and Air Conditioning Technology*
- Johnson, Andrew J. 1958, *Professor of History, Executive Associate to the President*  
B.A., University of Texas; M.A., University of Chicago; M.A., Ph.D., Indiana University
- Johnson, Barry W. 1983, *Instructor of Music*  
B.Med., M.A. Sam Houston State University
- Johnson, Betty S. 1979, *Associate Professor of Office Administration*  
B.S.E., M.S.E., Arkansas State University; Ed.D., University of Arkansas
- Johnson, John P. 1977, *Associate Professor of Communication and Head, Department of Communication*  
B.A., M.S., Florida State University; Ph.D., Kent State University
- Johnston, Maxine 1955, *Associate Professor and Director of Library Services*  
B.S., Sam Houston State University; M.L.S., University of Texas
- Jolly, Sidney W., Jr. 1971, *Associate Professor of Health, Physical Education and Dance, Head Track Coach Associate Director Men's Athletics*  
B.S., M.S., Lamar University, M.Ed., Stephen F. Austin State University; Ed.D., North Texas State University

- Jones, Ann D. 1957, *Assistant Professor of Marketing*  
B.S., M.S., University of Arkansas
- Jones, Bonner R. 1982, *Instructor I of Electrical Technology*
- Joshi, Narayan R. 1983, B.S., M.S., Poona University; M.S., Ph.D., Johns Hopkins University
- Jones, Kirkland C. 1973, *Associate Professor of English*  
B.A., University of Washington; M.A., Texas Southern University; Ph.D., University of Wisconsin
- Jones, Mary 1983, *Instructor of Home Economics*  
A.S.C. Jamica School of Agriculture; B.S., Tuskegee Institute; M.S., Purdue University
- Jones, Phillip B. 1982, *Instructor I of Industrial Electronics Technology*  
A.A.S., Lamar University
- Jones, Richard W. 1975, *Professor of Accounting*  
B.S.C., Texas Christian University; M.A., University of Alabama; Ph.D., University of Arkansas; Certified Public Accountant
- Jones, Roger W. 1981, *Adjunct Instructor of English*  
B.A., Kenyon College; M.A., Southern Illinois University
- Jordan, Donald L. 1979, *Assistant Professor of Computer Science*  
B.S., East Texas Baptist College; B.S., Lamar University; M.S., Air Force Institute of Technology
- Jordan, Jimmie L. 1982, *Assistant Professor of Geology*  
B.S., Lamar University; Ph.D., Rice University
- Juarez, Joe I. 1968, *Instructor IV of Basic Communications, Head, Department of Related Arts*  
B.F.A., University of Houston; B.S., Lamar University; M.Ed., University of Houston
- Karlin, Andrea 1981, *Assistant Professor of Education*  
B.A., Hunter College; M.A., Ph.D., University of New Mexico
- Kayton, Cynthia A. 1983, *Instructor I of Child Care Technology*  
B.A., University of Southern Colorado; B.F.A., Idaho State University
- Kilpatrick, Ruby 1977, *Clinical Instructor of Nursing*  
Registered Nurse
- Kim, Hi K. 1968, *Professor of Economics and Head, Department of Economics*  
B.B.A., M.B.A., Southern Methodist University; Ph.D., The University of Houston
- Kindl, Jamie 1982, *Instructor, Health, Physical Education and Dance*  
B.S., M.A., Butler University
- King, Jess Freeman 1978, *Assistant Professor of Communication*  
B.S., McNeese State University; M.S., Eastern New Mexico University; Ed.D., McNeese State College
- King, Karen D. 1983, *Instructor of Dental Hygiene*  
B.S., East Tennessee State University; M.H.E., Medical College of Georgia
- Kirksey, C. D. 1946, *Professor of Business Statistics*  
B.S., M.S., North Texas State University; Ph.D., University of Texas
- Koh, Hikyoo 1981, *Assistant Professor of Computer Science*  
B.A., Young-Nam; M.S., University of Hawaii; Ph.D., University of Pittsburgh
- Kriegel, Otto A. 1973, *Instructor II of Machine Tools*
- Kuhne, David B. 1983, *Adjunct Instructor, English & Foreign Languages*  
B.A., University of Texas; M.F.A., University of Arkansas
- Krepper, George 1982, *Instructor I of Drafting Technology*
- Laidacker, Michael A. 1967, *Associate Professor of Mathematics*  
B.S., M.S., Lamar University; Ph.D., University of Houston
- Lambert, Joseph C. 1962, *Associate Professor of History*  
B.A., Millsaps College; M.A., Louisiana State University
- Lampe, Stephen L. 1982, *Assistant Professor, Instructional Design*  
A.A., Skagit College; B.Ed., M.Ed., W. Washington State College; Ph.D., University of Iowa
- Lane, James E. 1967, *Assistant Professor of Education Director of Certification*  
B.S., Abilene Christian University; M.Ed., Lamar University; Ed.D., North Texas State University

- Lanier, Boyd L. 1970, *Associate Professor of Government*  
B.A., M.S., Ph.D., Florida State University
- Lauffer, Charles H. 1962, *Assistant Professor of Mathematics*  
B.S., M.S., Auburn University
- Lawrence, Robert J. 1958, *Instructor III of Industrial Electronics Technology*
- LeBlanc, John R. 1971, *Associate Professor of Music*  
B.M.Ed., McNeese State University; M.S.M., Southwestern Baptist Theological Seminary; M.M., Louisiana State University; Ph.D., University of Southern Mississippi
- Lee, Kwan R. 1981, *Assistant Professor of Mathematics*  
B.S., M.S., Seoul National University; M.S., Ph.D., Southern Methodist University
- Li, Ku-Len 1978, *Assistant Professor of Chemical Engineering*  
B.S., M.S., Cheng King University; Ph.D., Mississippi State University; Registered Professional Engineer
- Lin, Njen-sheng *Associate Professor of Communication*  
B.A., State University of New York at Oswego; M.A., Ph. D. University of Wisconsin
- Lindoefer, Joanne 1980, *Assistant Professor of Psychology*  
B.S., Loyola University, Chicago; M.S., Ph.D., University of Texas
- Loewenstein, Gaither D. 1983, *Assistant Professor of Government*  
B.S., University of the Pacific; M.U.A. Wichita State University; Ph. D., University of Delaware
- Lokensgard, Lynne L. 1973, *Assistant Professor of Art*  
B.A., M.A., University of Minnesota
- Love, James J. 1976, *Assistant Professor of Criminal Law and Director of Criminal Justice Program*  
B.A., Lamar University; J.D., University of Texas
- Lowrey, Mildred A. 1974, *Associate Professor of Health, Physical Education and Dance Director of Academic Programs*  
B.S., Howard College; M.S., Alabama College; Ph.D., Florida State University
- Lowrey, Norman E. 1967, *Supervisor of Adult Training*  
B.S., Lamar University
- Loyd, Marianne 1983, *Adjunct Instructor, English and Foreign Languages*  
B.A., Wells College; M.A., Syracuse University
- Ma, Li-Chen 1972, *Associate Professor of Sociology*  
B.S., M.S., National Taiwan University; Ph.D., University of Georgia
- Madden, J. Robert 1959, *Associate Professor of Art*  
B.A., Centenary College; M.F.A., University of Arkansas
- Mades, John W. 1964, *Instructor of Mathematics*  
B.A., Millikin University; M.A., University of Missouri
- Mainord, Robert A., Jr. 1981, *Instructor I of Industrial Electronics Technology*  
A.A.S., B.A., Lamar University
- Malnassy, Phillip G. 1973, *Associate Professor of Biology*  
A.B., Hunter College, New York; Ph.D., Rutgers University
- Malone, A. Brenda 1977, *Assistant Professor of Nursing*  
B.S.N., Northwestern State College; M.S.N., University of Texas at Houston; Registered Nurse
- Mantz, Peter A. 1983, *Associate Professor of Civil Engineering*  
B.Sc., Newcastle University; M.Sc., Southampton University; Ph. D., London University; Chartered Engineer(UK)
- Marble, Ronald I. 1967, *Instructor IV of Welding*  
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B.S., Weber State College; M.A., Ph.D., University of New Mexico
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B.S., Lamar University; M.S., Rice University; Ph.D., University of Houston
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B.S., Lamar University; M.Ed., Sam Houston State University
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B.S., Texas Eastern University; M.B.E., Stephen F. Austin State University
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A.A.S., Lamar University
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B.S., Sam Houston State University; M.Ed., University of Houston; Ph.D., Texas Woman's University
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B.S., M.S., Lamar University
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B.S., Lamar University; M.S., Ph.D., Texas A&M University
- McGuffin, Stephen 1982, *Captain/Assistant Professor, Military Science*  
B.S., Cameron College
- McGuire, Sterling W. 1956, *Professor of Computer Science*  
B.S., M.A., Sam Houston State University; Ph.D., Texas A&M University
- McIntosh, Edward R. 1971, *Associate Professor of Communication*  
B.S., University of Florida; M.S., Florida State University; Ed.D., Michigan State University
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A.A.S., Midlands Technical School
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B.S., M.S., Texas A&M University
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B.S., U.S. Naval Academy; B.S., U.S. Naval Post Graduate School; M.S., University of Alaska; Ph.D., University of Texas; Registered Professional Engineer
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B.S., Lamar University
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B.A., Lamar University; M.A., Louisiana State University
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- Platt, Annette E. 1963, *Associate Professor of English and Head, Department of English and Foreign Languages*  
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B.S.N., M.S.N., Wayne State University; Registered Nurse
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B.Arch., Louisiana State University
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B.S., Kansas State University of Agriculture and Applied Science; M.S., Kansas State Teachers College; Ph.D., Oklahoma State University
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B.S.N., St. Mary's School of Nursing; Registered Nurse
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B.S., University of Louisville; M.S., Ph.D., Northwestern University
- Roberts, Katherine 1976, *Clinical Instructor of Nursing*  
B.S.N., University of Texas; Registered Nurse
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B.A., Washburn University; M.F.A., University of Iowa; Ed.D., The University of Kansas
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B.S., Tulane University; M.S., Lamar University
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B.S., University of Houston; M.S., Ph.D., University of Illinois; Registered Professional Engineer
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B.A., New York University; M.A., Ph.D., Florida State University
- Roy, M. Paul 1963, *Instructor IV of Machine Tools and Head, Industrial Department*
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- Rudloff, Virginia 1964, *Instructor II of Nursing*  
Diploma, Hotel Dieu School of Nursing; Registered Nurse
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B.A., University of Texas; M.A., Columbia University; Ph.D., University of Colorado
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B.S., University of Southern California; M.B.A., Ph.D., The University of Texas
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B.S., Northwest Missouri State University; M.L.S., M.A., Ed., Specialist-Instructional Media, University of Missouri
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B.A., Louisiana State University; M.A., University of Michigan; Ph.D., University of Michigan, Ann Arbor
- Satterfield, R. Beeler 1963, *Professor of History*  
B.A., M.A., Vanderbilt University; Ph.D., Johns Hopkins University
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B.S., M.S., State University College, Fredonia, New York; Ed.D., State University of New York at Buffalo
- Schroder, John P. 1983, *Instructor I of Electrical Technology*  
B.S., Southwestern Louisiana Institute
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B.S., University of Tennessee; M.S., Ph.D., University of Georgia

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B.A., Lamar University; M.A., Stephen F. Austin State University; Ph.D., The Pennsylvania State University
- Self, E. Lee 1959, *Professor of Education, Director, Field Experiences*  
B.S., M.Ed., Northwestern State University of Louisiana; Ph.D., Louisiana State University
- Senorski, Andrew Peter 1978, *Lecturer of Health, Physical Education and Dance, Assistant Track Coach*  
B.S., M.S., Lamar University
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B.S., M.S., Ph.D., University of Houston
- Shepherd, J. G. 1957, *Associate Professor of Physics*  
B.S., M.A., North Texas State University
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B.A., M.A., Texas Christian University; M.R.E., Brite Divinity School; Ph.D., Texas Woman's University
- Shipper, Kenneth E. 1971, *Dean, College of Technical Arts*  
B.S., Sam Houston State University; M.A., Ph.D., University of Texas
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Bachelor's in Music, Musorgsky Musical College; Master's in Music and Aspirant Degree, Gnessin Music Academy, Moscow
- Short, W. David 1974, *Assistant Professor of Radiologic Technology and Head, Department of Allied Health*  
B.S., Incarnate Word College; M.Ed., University of Houston; Registered Radiographer
- Sims, Victor H. 1978, *Assistant Professor of Criminal Justice*  
B.A., University of Mississippi; M.S., Arizona State University; Ph. D., University of Southern Mississippi
- Sitton, John F. 1983, *Adjunct Instructor of Government*  
B.A., Kent State; M.A., University of Chicago; Ph.D., Boston University
- Simmons, James M. 1970, *Assistant Professor of Music and Director of Bands*  
B.S., Memphis State University; M.M., University of Houston; Ed.D. McNeese State University
- Slaydon, Bessie 1980, *Instructor of Nursing*  
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- Smith, Bobbie L. 1981, *Master Sergeant, Military Science*  
B.A., Columbia College
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B.S., Northwestern State University; M.S.N., Texas Woman's University; Registered Nurse
- Smith, Kevin B. 1981, *Assistant Professor of Sociology*  
B.S., Texas A&M University; M.A., Ph.D., Louisiana State University
- Smith, Wayne S. 1981, *Major/Professor of Military Science*  
B.A., Troy State University
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B.S., Trinity University; M.Ed., Ph.D., University of Texas
- Sommerfeld, John F. 1978, *Instructor of Art*  
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B.A., University of Denver; M.A., Ed.D., Columbia University
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LL.B., Baylor University

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B.S., North Texas State University; M.Ed., Hardin-Simmons University; Ed.D., North Texas State University
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B.S., Oklahoma State University; M.S., Ph.D., Texas Tech University
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B.S., Virginia Polytechnic Institute and State University; M.A., M.S., Ph.D., Louisiana State University
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B.A., Colegio Superior; M.A., Ph.D., Universidad de Madrid
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B.A., Indiana University; M.A., 1683 Southwestern University
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B.A., Monclair State College; B.S., LeTourneau College
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B.S., Louisiana College; M.S., Northwestern State University of Louisiana; Ph.D., Texas A&M University
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- Walker, Richard E. 1963, *Professor of Chemical Engineering*  
B.S., Purdue University; M.S. Bucknell University; Ph.D., Iowa State University of Science and Technology; Registered Professional Engineer
- Walker, William S. 1980, *Carol Tyrrell Kyle Associate Artist*  
B.A., Texas Christian University
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B.A., Occidental College; B.D., Fuller Theological Seminary; Ph.D., University of Southern California
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Certificate in Respiratory Therapy, Southern Community State College; Associate of Science, Denver Community College; Registered Respiratory Therapist; Registered 1729 Nurse
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- Wilsker, Ira Lee 1977, *Instructor II of Mid-Management*  
B.S., M.B.A., University of Maryland
- Wilson, Jerry L. 1970, *Instructor IV of Industrial Electricity and Electronics Technology and Head, Technical Department*  
B.S., M.Ed., Lamar University; Ph.D., Texas A&M University
- Wohler, Marjorie Lynn 1975, *Instructor of Nursing*  
B.S.N., McNeese State University; M.S.N., Texas Woman's University; Registered Nurse
- Wood, Sam M., Jr. 1958, *Associate Professor of Mathematics, Director of Mathematics Instruction, Regents' Professor*  
B.A., University of Texas; M.S., Texas A&M University
- Woodland, Naaman J., Jr. 1957, *Associate Professor of History*  
B.A., B.S., Louisiana State University; M.A., Northwestern University
- Woodward, George A. 1967, *Associate Professor of Sociology*  
B.S., M.A., University of Houston; Ph.D., University of Oklahoma
- Wooster, Ralph A. 1955, *Regents' Professor of History and Dean of Faculties*  
B.A., M.A., University of Houston; Ph.D., University of Texas
- Wooten, Bobby E. 1975, *Associate Professor of Management*  
B.B.A., M.B.A., Lamar University; Ph.D., Louisiana State University; Accredited Personnel Specialist (APS)
- Worsham, William L. 1972, *Assistant Professor of Health, Physical Education and Dance*  
B.S., M.Ed., Lamar University



- Wu, Wen-Teng 1981, *Visiting Professor of Chemical Engineering*  
B.S., M.S., Ph.D., National Cheng Kung University
- Yates, Leonard A. 1966, *Regents' Professor of Health, Physical Education and Dance*  
B.S., M.S., Louisiana State University; Ed.D., University of Houston
- Yattaw, Michael A. 1983, *Adjunct Instructor, English & Foreign Languages*  
B.A., Purdue University; M.A., M.A.Ed., Ball State University
- Yaws, Carl L. 1975, *Professor of Chemical Engineering*  
B.S., Texas A&I University; M.S., Ph.D., University of Houston; Registered Professional Engineer
- Yerick, Roger E. 1958, *Professor of Chemistry*  
B.S., Texas A&I University; Ph.D., Iowa State University
- Young, Fred M. 1978, *Professor of Mechanical Engineering and Dean, College of Engineering*  
B.S.M.E., M.S.M.E., Ph.D., Southern Methodist University; Registered Professional Engineer
- Young, Ira Lee 1978, *Instructor of Radiology Technology*  
B.A., McNeese State University; M.Ed., Nicholls State University; Registered Radiographer
- Zaloom, Victor A. 1981, *Professor of Industrial Engineering and Head, Department of Industrial Engineering*  
B.S.I.E., M.S.E., University of Florida; Ph.D., University of Houston; Registered Professional Engineer
- Zeek, Paul T. 1971, *Instructor of Health, Physical Education and, Athletic Trainer*  
B.S., University of Texas at El Paso

## Part-Time Faculty

- Adams, Lucien J., III 1981 *Adjunct Instructor of Mechanical Engineering*  
B.S., University of Southwestern Louisiana
- Arrington, Alan R. 1983, *Adjunct Instructor of Business Data Processing*  
A.A.S., Lamar University
- Baker, Blanch J. 1980, *Adjunct Instructor of Mathematics*  
B.A., Lamar University; M.A., Ph.D., University of Texas at Austin
- Baker, Kenneth C. 1978, *Adjunct Instructor of Fire Training*
- Barnes, Geralann 1981, *Adjunct Instructor of Related Arts*  
B.A., Lamar University
- Barrington, Peggy 1981, *Adjunct Instructor of Office Administration*  
B.B.A., Lamar University; M.B.A., Sam Houston State University
- Bell, M. Katherine 1962, *Associate Professor of Mathematics*  
B.S., Florida State University; M.A., University of Cincinnati; Regents' Professor
- Bickings, Jayne 1981, *Adjunct Instructor of Communications*  
B.S., M.A., Texas Woman's University
- Black, James W. 1981, *Adjunct Instructor of Marketing*  
B.S., M.B.A., Lamar University
- Black, Robert A. 1981, *Adjunct Instructor of Business Law*  
B.A., University of Texas at El Paso; J.D., Texas Tech University
- Booker, George A. 1983, *Adjunct Instructor of Music*  
M.M., Louisiana State University; Ph. D. Florida State University
- Boone, James 1983, *Adjunct Instructor of Music*  
B.S., M.Ed., Lamar University
- Burton, John D. 1983, *Adjunct Instructor of OSH*  
B.S., Dallas Baptist College
- Burris, Barbara Y. 1976, *Adjunct Instructor of Related Arts*  
B.A., Lamar University
- Byram, Betty 1978, *Adjunct Instructor of Accounting*  
B.A., Louisiana State University; M.B.A., Lamar University; Certified Public Accountant
- Calvillo, Colleen 1980, *Clinical Instructor of Respiratory Technology*  
Respiratory Therapy Technician
- Capello, June Marie 1981, *Adjunct Instructor of Related Arts*

- Cater, Otis E., III 1977, *Adjunct Instructor of Real Estate*  
B.S., M.Ed., Lamar University
- Cioban, Donald W. 1983, *Adjunct Instructor of Real Estate*  
B.B.A., Georgia Southern
- Cougins, Edward J. 1983, *Adjunct Instructor of Plant maintenance*
- Craigie, William 1980, *Adjunct Instructor in the Department of Mechanical Engineering*
- Crutchfield, Joe Wayne 1980, *Adjunct Instructor of Criminal Justice*  
B.S., Lamar University
- Degeyter, Connie M. 1982, *Adjunct Instructor of Business Data Processing*
- De Ment, Dack B. 1981, *Adjunct Instructor of Mathematics*  
B.A., Henderson State Teachers College; M.A., M.E., Louisiana State University
- Dowden, Lairon W. 1974, *Adjunct Instructor of Refrigeration and Air Conditioning Technology*
- Eddy, Louise 1980, *Adjunct Instructor of Communication*  
B.S., M.S., Lamar University
- Fischer, Harrison Edward 1982, *Adjunct Assistant Professor of Civil Engineering*  
B.A., B.S.C.E., Rice University; Registered Professional Engineer
- Fitzpatrick, James E. 1982, *Adjunct Instructor of Industrial Electronic Technology*  
A.A.S., Lamar University
- Franks, Wanda 1977, *Adjunct Instructor of Related Arts*  
B.S., M.Ed., Lamar University
- Freeman, Brenda L. 1983, *Adjunct Instructor of Mid-Management*  
B.B.A., Georgia College of Milledgeville; J.D., Walte F. George School of Law, Mercer University
- Fudicker, Jane 1981, *Adjunct Instructor of Speech*  
B.S., Louisiana State University; M.S., Lamar University
- Gertz, Paul W. 1980, *Adjunct Instructor of Business Law*  
B.S., Stephen F. Austin State University; J.D., Southern Methodist University Law School
- Giglio, Sam C., Jr. 1978, *Adjunct Professor of Dental Hygiene*  
B.S., Lamar University; D.D.S., University of Texas Dental Branch-Houston
- Gipson, Errett D., Jr. 1975, *Adjunct Instructor of Drafting Technology*  
A.A.S., Lamar University
- Gish, James 1979, *Adjunct Professor of Radiologic Technology*  
B.S., M.D., Indiana University
- Graham, Beth 1983, *Adjunct Instructor of Music*  
B.S., Lamar University; M.S. University of Illinois
- Gray, Nancy Feeling 1981, *Adjunct Instructor of Related Arts*  
B.A., Lamar University
- Griffin, Richard P. 1978, *Adjunct Instructor of Occupational Safety and Health*  
B.S., Baylor University; M.B.A., Lamar University
- Hansen, Elizabeth Claudia 1981, *Adjunct Instructor of Mathematics*  
B.S., M.C.S., Texas A&M University
- Hartford, William H. 1947, *Instructor III of Related Arts*
- Hassell, David 1981, *Adjunct Instructor of Occupational Safety and Health*  
B.S., University of Maryland
- Hasson, John 1981, *Adjunct Instructor of Business Computers*  
B.B.A., M.B.A., Lamar University
- Hebert, Lisa 1981, *Research Assistant, Department of Communication*  
B.S., University of Southern Louisiana
- Hebert, Herman G. 1980, *Adjunct Instructor of Refrigeration and Air Conditioning Technology*  
A.A.S., Lamar University
- Hedgspeth, Joe M. 1980, *Adjunct Instructor of Appliance*
- Hillin, Celeste 1981, *Staff Audiologist, Department of Communication*  
B.S., M.S., Lamar University
- Huckaby, Dennis 1981, *Adjunct Instructor of Related Arts*  
B.S., Lamar University
- Hurlbut, Brian 1983, *Adjunct Instructor of Related Arts*  
B.S., Iowa State University; M.S., San Diego State College; M.B.A., University of Houston

- Jepson, Harry L. 1978, *Adjunct Professor of Dental Hygiene*  
B.S., East Texas Baptist College; D.D.S., University of Texas School of Dentistry
- Johnson, James O. 1980, *Adjunct Instructor of Marketing*  
B.B.A., University of Mississippi; M.A., University of Alabama
- Kaszynski, Hubert 1955, *Professor of Music*  
B.M.Ed., Sherwood Music School; M.M., Chicago Musical College
- Kaye, Lory 1981, *Adjunct Instructor of Office Administration*  
B.B.A., Lamar University
- King, Sidney A. 1981, *Adjunct Instructor of Real Estate*  
L.L.B., Baylor University
- Kunefke, John R. 1983, *Adjunct Instructor, Plant Maintenance*
- Koehler, Joel 1978, *Adjunct Professor of Dental Hygiene*  
B.S., Texas A&M University; D.D.S., University of Texas Dental Branch-Houston.
- Landes, J. D. 1946, *Professor of Accounting*  
B.A., M.S., North Texas State University; Ph.D., University of North Carolina
- Langdon, Randal C. 1983, *Adjunct Instructor of Mid-Management*  
B.S., Lamar University
- Lee, Jim C. 1978, *Adjunct Instructor of Civil Engineering*  
B.S., University of New Mexico; M.S., Pennsylvania State University; Ph.D., University of Oklahoma; Registered Professional Engineer
- Lee, Kenneth R. 1980, *Adjunct Instructor of Computer Science*  
B.S., University of Texas at Austin; M.Ed., Lamar University
- Mann, David L. 1976, *Adjunct Instructor of Real Estate*  
B.B.A., Southern Methodist University
- McKay, Calvin J. 1966, *Adjunct Instructor of Industrial Supervision*  
B.S., University of Southwestern Louisiana
- McLaughlin, Marvin L. 1946, *Professor of Education*  
B.S., Sam Houston State University; M.Ed., University of Texas; Ed.D., University of Houston
- Meagher, Thomas F. 1982, *Adjunct Instructor of Electrical Technology*
- Mitra, Kumar T. 1977, *Adjunct Assistant Professor in the Department of Civil Engineering*  
B.S., Ranchi University; M.S., Indian Institute of Technology; Ph.D., University of Mississippi
- Moniz, Bertram J. 1980, *Adjunct Instructor of Welding*  
B.S., University of Aston, England; M.S., University of London
- Monk, David S., Jr. 1980, *Adjunct Instructor of Drafting*
- Montalbano, Gail 1980, *Clinical Instructor of Respiratory Technology*  
Certificate in Respiratory Technology, Lamar University; Certified Respiratory Therapy Technician
- Morgan, Kim Renee 1981, *Research Assistant, Department of Communication*  
B.S., Lamar University
- Nagai, Gayle 1982, *Adjunct Instructor of Office Administration*  
B.B.A., Lamar University, Certified Professional Secretary
- Oliver, Gregory C. 1982, *Adjunct Instructor of Business Data Processing*  
B.S., Lamar University
- Owen, George C. 1982, *Adjunct Instructor of Real Estate*  
B.A., Lamar University
- Partin, Charles A. 1964, *Professor of Economics*  
B.S., Stephen F. Austin State University; M.A., Ph.D., University of Texas
- Patterson, Billy 1980, *Adjunct Instructor of Plant Maintenance*
- Phair, George Allan 1980, *Adjunct Instructor of Criminal Justice*
- Prater, Penny L. 1982, *Adjunct Instructor of Related Arts*  
B.S., Lamar University; B.S., Texas A&M University
- Radley, Judy 1983, *Adjunct Instructor of Related Arts*
- Reed, Charles C. 1978, *Adjunct Instructor of Accounting*  
B.S., Indiana University; Certified Public Accountant
- Reeves, C.H. 1983, *Adjunct Instructor of Related Arts*

- Reho, Mary Ellen 1983, *Adjunct Instructor of Related Arts*  
B.B.A., Lamar University
- Reger, Gary N. 1980, *Adjunct Instructor of Business Law*  
B.B.A., Texas A&M University; J.D., University of Texas School of Law
- Rives, Barbara S. 1983, *Adjunct Instructor of Music*  
B.S., David Lipscomb College
- Roberts, Katherine A. 1979, *Clinical Instructor of Nursing*  
B.S.N., University of Texas at Houston; Registered Nurse
- Roth, Laura 1980, *Adjunct Instructor of Communication*
- Satterfield, Gregory L. 1979, *Adjunct Instructor of Occupational Safety and Health*  
B.A., Fairmont State College; M.S., West Virginia University
- Seitz, Kathleen 1981, *Research Assistant, Department of Communication*  
B.S., University of Connecticut
- Seymour, Mark 1980, *Adjunct Instructor of Chemistry*
- Scarborough, Joanne 1980, *Adjunct Instructor of Communication*  
B.A., University of Texas; M.A., Mills College
- Schexnaider, Craig 1979, *Adjunct Instructor of Accounting*  
B.B.A., M.B.A., Lamar University, Certified Public Accountant
- Schroeter, William E. 1977, *Adjunct Instructor of Real Estate*
- Severance, Kay E. 1983, *Adjunct Instructor of Business Data Processing*  
B.S., University of Southwestern Louisiana
- Shanks, James E. 1978, *Adjunct Instructor, Related Arts*  
B.S., Lamar University
- Shaver, O. Roy 1980, *Adjunct Professor of Chemical Engineering*  
B.S., M.S., Ph.D., University of Houston; Registered Professional Engineer
- Shaver, Patricia F. 1980, *Adjunct Instructor of Office Administration*  
B.B.A., M.B.A., Lamar University
- Shaw, Paul B. 1974, *Adjunct Professor of Respiratory Technology*  
B.S., Mississippi State University; M.D., Tulane University
- Sigur, Ronald 1978, *Adjunct Instructor of Drafting Technology*
- Smith, Albert E. 1976, *Adjunct Instructor of Related Arts*  
B.S., M.Ed., Stephen F. Austin State University
- Smith, Genevieve Z. 1959, *Assistant Professor of Modern Languages*  
B.A., Milton College; M.A., Instituto Tecnologico de Monterrey
- Standley, Arthur 1981, *Adjunct Instructor of Technical Arts*
- Stevens, Margaret S. 1980, *Adjunct Instructor of Geology*
- Stidham, Mary Lea 1981, *Adjunct Instructor of Related Arts*  
B.A., M.A., Lamar University
- Strafau, Robert David 1981, *Adjunct Instructor of Related Arts*
- Tutt, Stephen C. 1983, *Adjunct Instructor of Diesel Mechanics*  
A.A.S., Lamar University
- Venza, Anthony J., Jr. 1978, *Adjunct Instructor of Mid-Management*  
B.A., B.B.A., M.B.A., Lamar University
- Wagner, Kevin E. 1981, *Adjunct Instructor of Related Arts*
- Walker, Byron P. 1979, *Adjunct Instructor of Drafting Technology*  
A.A.S., Lamar University
- Warren, J. Donald 1980, *Adjunct Associate Professor of Accounting*  
B.B.A., Lamar University; M.B.A., George Washington University
- Wasser, John B. 1983, *Adjunct Instructor of Related Arts*  
A.A.S., Delhi College; B.B.A., M.B.A. Lamar University
- Weaver, Richard 1980, *Adjunct Professor of Dental Hygiene*  
B.S., Lamar University; D.D.S., University of Texas Health Science Center-San Antonio, Dental School
- Webb, Clem T. 1976, *Adjunct Instructor of Art*  
B.S., Abilene Christian University
- White, Dennis P. 1981, *Adjunct Instructor of Criminal Justice*

- Whitehead, Robert N. Jr., 1981, *Adjunct Instructor of Fire Protection Technology*  
B.S., Sam Houston State University
- Whitmarsh, Robert H. 1979, *Adjunct Instructor of Chemistry*
- Wilkerson, Joan S. 1969, *Assistant Professor of English*  
A.B., Duke University; M.A., George Peabody College for Teachers
- Winney, Betty 1967, *Assistant Professor of Speech and Hearing Therapy*  
B.S., M.S., Lamar University; Certificate in Audiology
- Wolff, James D. 1983, *Adjunct Instructor of Appliance Repair*  
B.B.A., Lamar University
- Woods, Anita J. 1971, *Adjunct Instructor of Related Arts*  
B.A., Sam Houston State University

## Lamar University at Orange

### Faculty 1984-85

The following list reflects the status of the Lamar University at Orange faculty as of August, 1983. The date following each name is the academic year of first service to the University and does not necessarily imply continuous service since that time.

- Arnow, Judith Z. 1972, *Assistant Professor of Mathematics*  
B.A., University of North Dakota; M.S., Lamar University; M.S., Rice University
- Baxt, Andrew, 1982, *Instructor I of Industrial Electronics Technology*  
A.A.S., Nassau Community College
- Brown, M. Ray 1978, *Assistant Professor of Sociology and vice-provost*  
B.A., M.A., Texas Tech University; Ph.D., Brown University
- Byram, Betty, 1983, *Instructor of Accounting*  
B.A., Louisiana State University; M.B.A. Lamar University; C.P.A.
- Campbell, Jesse W. Jr. 1976, *Adjunct Instructor of Physical Education*
- Crane, Josh, 1982, *Director of Academic Programs and Associate Professor of Speech*  
B.A., Guilford College; M.A., University of Florida; Ph. D. Ohio State University  
B.S., M.Ed., Lamar University
- Daniel, G. Max 1973, *Assistant Professor of Government*  
B.A., Lamar University; M.A., Sam Houston State University
- Dickey, Sandra Kay 1981, *Clinical Vocational Nursing Instructor*  
B.S., Lamar University; Registered Nurse
- Dupree, Carol S., 1982, *Instructor I of Mid-Management*  
A.A., Highland Junior College; B.Ed., Emporia State University; M.Ed., Emporia State University
- Ferris, Raymond B. 1980, *Instructor I of Industrial Electricity and Electronics*  
A.A.S. Lamar University
- Franklin, Larkin C. 1970, *Instructor of English*  
B.A., Lamar University; M.A., Brigham Young University
- Horton, Don E. 1974, *Instructor II of Mid-Management and Director of Technical Arts*  
B.S., Louisiana Tech University; M.B.A., University of West Florida; Certified Professional Secretary
- Mason, Ruth, 1973, *Instructor I of Vocational Nursing*  
Diploma, Western Pennsylvania Hospital School of Nursing; Registered Nurse
- Mayfield, Ann, 1982, *Clinical Instructor of Nursing*  
B.S.N., Lamar University; Registered Nurse
- McLendon, Connie, 1983, *Instructor of English*  
B.S., Texas A&I University; M.A., North Texas State University
- Middlebrooks, James, *Instructor I of Drafting Technology*  
A.A.S., Lamar University
- Naughton, Alan J. 1980, *Adjunct Instructor of Economics*  
B.A., Tarkio College; M.A., Southern Illinois University

- Peebles, Robert H. 1970, *Assistant Professor of History*  
 B.A., Lamar University; M.A., Sam Houston State University; Ph.D., North Texas State University
- Richard, Harriette, 1983, *Assistant Professor of Psychology*  
 B.A., Hampton Institute; M.A., Ph. D. University of Arkansas
- Spollen, John J., 1982, *Assistant Professor of Computer Science*  
 B.A., St. Michaels; M.S., Southern Connecticut State; Ph. D. Peabody College
- Talmadge-Parris, Geraldine 1976, *Instructor of Music*  
 B.S., M.A., Lamar University
- Taylor, Hyman K. 1972, *Instructor III of Drafting Technology*  
 A.A.S., B.S., Lamar University
- Thrasher-Smith, Shelley Ann 1971, *Assistant Professor of English*  
 B.A., M.A., North Texas State University; Ph.D., University of Houston
- Walley, Leslie G. 1976, *Instructor II of Industrial Electricity and Electronics Technology*
- Welborn, Thomas L., 1982, *Instructor I of Drafting*  
 B.S., International Correspondence School
- Welch, Bonnie F. 1978, *Instructor I of Office Occupations*  
 B.B.A., Lamar University
- Williamson, Annie W. 1979, *Instructor I of Office Occupations*  
 A.A., Rockland Community College; B.A., Michigan State University; M.Ed., Bowling Green State University
- Wilmore, Brenda, 1982, *Clinical Instructor of Nursing*  
 B.S., Lamar University, Registered Nurse
- Wilmore, Larry R. 1974, *Assistant Professor of Biology*  
 B.S., Lamar University; M.S., Ohio State University

## Part-Time Faculty

- Ahlgrim, Ronald 1980, *Adjunct Instructor of Welding*
- Branson, Wilma C. 1978, *Adjunct Instructor of Technical Mathematics*  
 B.S., M.S., Lamar University
- Collier, Helen L. 1980, *Adjunct Instructor of Business Communications*  
 M.Ed., University of Illinois
- Kirkendall, Steve 1981, *Adjunct Instructor of English*  
 B.A., M.Ed., Lamar University
- Rives, Barbara Sunderland 1980, *Adjunct Instructor of Technical Mathematics*  
 B.A., David Lipscomb College
- Stevens, Margaret S. 1972, *Adjunct Instructor of Geology*  
 B.A., Central Michigan University; M.S., University of Michigan
- Windham, Ben 1981, *Adjunct Instructor of Electronics*  
 A.A.S., Lamar University

# Lamar University at Port Arthur

## Faculty 1982-83

The following list reflects the status of the Lamar University at Port Arthur faculty as of August, 1983. The date following each name is the academic year of first service to the University and does not necessarily imply continuous service since that time.

- Barron, Glenda O. 1975, *Instructor II of Office Occupations and Head, Office Occupations Department*  
 B.S., University of Houston; M.Ed., McNeese University
- Balloul, Mounir 1983, *Instructor I of Technical Mathematics*  
 B.S., M.S., University of Houston
- Bell, Rose Mary 1981, *Instructor I of Cosmetology*  
 Registered Cosmetologist
- Berthelsen, Rodney 1977, *Instructor of Sociology*  
 B.A., Northwestern College; M.A., University of South Dakota (On Leave)

- Daigle, Rodric, 1983, *Instructor I of Auto Body Technology*
- Dobbs, Gayle S. 1976, *Instructor II of Office Occupations*  
B.B.A., M.B.A., Lamar University
- Eubanks, Jessie A. 1981, *Instructor I of Office Occupations*  
B.B.A., Lamar University
- Gates, William 1983, *Instructor I of Welding*  
B.S., Stephen F. Austin State University
- Gongre, Charles, 1977, *Assistant Professor of English and Director of Academic Programs*  
B.A., Lamar University; M.A., Stephen F. Austin State University; Ph.D., North Texas State University
- Goodwin, Jo Ann 1976, *Instructor of Mathematics*  
B.A., M.A., Lamar University
- Gregory, Myra 1983, *Instructor of Home Economics*  
B.S., M.S., Lamar University
- Hachbold, Shirley Sue 1980, *Assistant Professor of English*  
A.A., Blinn College; B.A., M.A., University of Houston
- Helton, Jo Nell 1983, *Instructor I of Cosmetology and Coordinator of Cosmetology*  
Registered Cosmetologist
- Hunt, Hilton L. 1982, *Instructor I of Drafting*  
A.A.S., Lamar University
- Hutchins, Janis A. 1980, *Instructor I of Business Data Processing and Coordinator of Business Data Processing*  
B.B.A., M.B.A., Lamar University
- Huval, Barbara 1983, *Instructor of English*  
B.A., M.A., Lamar University
- Inman, Anna Carol 1982, *Instructor I of Business Data Processing*  
B.B.A., Lamar University
- James, Joseph 1983, *Instructor I of Mid-Management*  
B.B.A., M.B.A., University of Texas
- Lambert, Dawn 1982, *Instructor I of Data Processing*
- Louvier, Grant 1983, *Instructor I of Automotive Mechanics*
- Mathis, Shirley H. 1978, *Instructor II of Office Occupations*  
B.A., M.B.Ed., Stephen F. Austin State University
- McKay, Robert B. 1980, *Instructor I of Automotive Mechanics*
- Montona, Aurora 1983, *Instructor of Sociology* B.S., Silliman University; M.S., University of the Philippines; Ph.D., Michigan State University
- Moore, Inell 1975, *Instructor I of Business Communications*  
B.A., M.Ed., Texas Southern University
- Parker, Beverly 1975, *Instructor of Government*  
B.A., Southwestern University; M.A., Lamar University
- Pate, Martha 1981, *Instructor of Mathematics*  
B.S., M.S., Lamar University
- Peeler, Robert W. 1979, *Instructor I of Electronics Technology*  
B.S., Lamar University
- Provost, Norma 1983, *Instructor of History*  
B.A., University of Texas; M.A., Lamar University
- Roth, Laura K. 1981, *Instructor of Speech*  
B.S., M.S., Lamar University
- Savage, Franklin C. 1975, *Instructor II of Automotive Mechanics, Director of Technical Programs*  
B.S.O.E., Southwest Texas State University
- Schipplein, Patricia L. 1976, *Instructor II of Office Occupations*  
B.B.A., Lamar University; M.B.Ed., North Texas State University
- Shahan, Michael 1977, *Assistant Professor of History*  
B.A., University of Oklahoma; M.A., Ph.D., Vanderbilt University
- Smith, Oscar C. 1975, *Instructor II of Electronics Technology, and Head, Department of Electronics Technology*

Waldrep, Verna 1983, *Instructor I of Cosmetology*  
Registered Cosmetologist  
Whigham, Virginia 1975, *Instructor I of Office Occupations*

## Part-Time Faculty

Askew, Michelle 1983, *Adjunct Instructor of Technical Mathematics*  
A.S., Gulf Coast Community College; B.S., Lamar University

Beard, Mark 1983, *Instructor of Business Data Processing*  
B.S., Lamar University

Branson, Alice 1982, *Adjunct Instructor of Technical Mathematics*  
B.A., Baylor University

Carlin, Matt *Adjunct Instructor of Speech*  
B.S., Lamar University

Collins, Barry 1978, *Instructor of Physical Education*  
B.S., Lamar University

Cowan, Betty 1983, *Adjunct Instructor of Office Occupations*  
A.A., Lamar University; B.B.A., Sam Houston State University; M.Ed., Lamar University

Dubose, John C. 1980, *Instructor of Accounting*  
B.B.A., Lamar University; M.B.A., McNeese State University; Certified Public Accountant

Duplant, Max 1983, *Instructor of Business Data Processing*  
B.B.A., Lamar University

Finley, Lori K. 1982, *Instructor of Psychology*  
B.S., M.S., Lamar University

Griffin, Sally 1982, *Instructor of Basic Communication/English*  
B.A., Baylor University; M.A., Lamar University

Guidry, Marilyn 1982, *Adjunct Instructor of Cosmetology*  
Registered Cosmetologist

Hayes, Jeff L. 1982, *Instructor of Real Estate*  
B.B.A., University of Texas

Hurlbut, Brian 1982, *Instructor of Mid-Management*  
B.S., Iowa State University; M.S., San Diego State College; M.B.A., University of Houston

James, Helen 1982, *Instructor of Business Data Processing*  
B.S., University of Texas

King, Maydell 1979, *Instructor of Office Occupations*  
B.B.A., Lamar University

Kloes, Renee 1982, *Instructor of Music*  
B.S., Lamar University; M.M., Arizona State

LeBlanc, Gary 1981, *Instructor of Government*  
B.A., M.B.A., Lamar University

Lyday, Lance, 1983, *Adjunct Instructor of English*  
B.A., Abilene Christian University; M.A., University of Arkansas; Ph.D., Vanderbilt

McClendon, Lola M. 1983, *Adjunct Instructor of Mathematics*  
B.S., M.S., Lamar University

Meroney, Robert A. 1982, *Instructor of Office Occupations*

Nordstrom, Harold Thomas 1981, *Instructor of Real Estate*  
Certified Residential Brokerage Manager

Prather, Joseph A. 1977, *Welding Instructor*

Price, Janell 1981, *Instructor of Spanish*  
B.A., M.A., Lamar University

Rethke, Helen 1979, *Instructor of Office Occupations*  
B.A., East Texas State University; M.Ed., University of Houston

Schroeter, William E. 1977, *Instructor of Real Estate*

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- Martin, Jack T., *Director of Placement*
- Moye, Gene E., *Director of Student Aid Accounting*
- Neumann, Richard L., *Director of Admissions*
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