

Lamar University

1983-84 Bulletin

Vol. 32 No. 1

Thirty-second annual catalog issue with announcements for 1983-84.

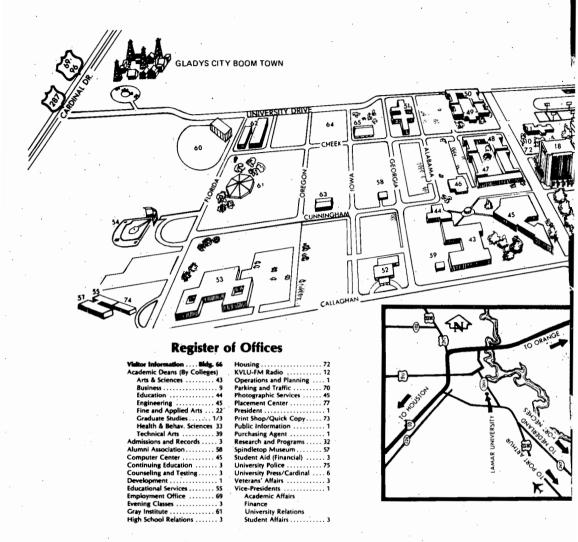
Founded in 1923, and established as a four-year coeducational state-supported college on September 1, 1951.

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 propsective students and to the students already enrolled.

Lamar University is an equal opportunity/affirmative action educational institution and employer. Students, faculty and staff members are selected without regard to their race, color, creed, sex, 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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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.



1983-84 Calendar

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

Fall Semester—1983

AUGUST

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SEPTEMBER

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August 1983

21	Dormitories open at 1 p.m.
	Dining halls open at 4:30 p.m

22 Registration begins

23 Registration

25 Classes begin-late registrationschedule revisions

26 Last day for schedule revisions and/or late registration

September 1983

5 Labor Day-no classes

12 Twelfth Class Day

October 1983

6 Last day to drop or withdraw without penalty

Last day to apply for December graduation 13 Last day to pay for diploma; cap and gown

November 1983

18 Last day to drop or withdraw

Thanksgiving recess begins at 10 p.m. 23 Dining halls close at 6 p.m. Dormitories close at 10 p.m.

Dormitories open at 1 p.m.

Dining halls open at 4:30 p.m. 28 Classes resume at 8 a.m.

December 1983

7-13 Final examinations

27

Dining halls close at 6 p.m. Dormitories close at 10 p.m.

15 Grades for Graduating seniors due by 8:30 a.m.

16 All grades due by 4 p.m.

16 Associate Degree Commencement: Main, Orange, Port Arthur campuses

17 Baccalaureate and Graduate Degree Commencement: Main Campus

Spring Semester—1984

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January 1984

8	Dormitories open at 1 p.m.
	Dining halls open at 4:30 p.m.

Registration begins

10 Registration

Classes begin-late registration-schedule

revisions 12

Schedule revisions—late registration Last day for schedule revisions and/or late 13 registration

27 Twelfth Class Day

FEBRUARY

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February 1984.

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

March 1984

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

April 1984

- 16 Last day to drop or withdraw
- Good Friday-No classes

May 1984

- 2-8 Final examinations
 - Dining halls close at 6 p.m. Dormitories close at 10 p.m.
- Grades for graduating students due by 8:30 a.m.
- All grades due by 4 p.m. Associate Degree Commencement: Main, Orange and Port Arthur Campuses
- 12 Baccalaureate and Graduate Commencement: Main

Summer Session 1984—First Term

June 1984

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

July 1984

- Last day to drop or withdraw 3
- 4 Independence Day-no classes
- 11 Last class day
- All grades due by noon

Summer Session 1984—Second Term

July 1984

- 12 Registration
- 13 Classes begin-Schedule revisions and/or late registration
- 16 Last day for schedule revisions and/or late registration
- 18 Fourth Class Day
- 26 Last day to drop or withdraw without penalty

August 1984

- Last day to drop or withdraw 10
- 17 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: Main, Orange, and Port Arthur Campuses

Baccalaureate and Graduate Degree Commencement: Main Campus All grades due by 8:30 a.m.

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1 2 3 4 .5 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

29 30 31

AUGUST 9 10 11 12 13 14 15 16 17 18

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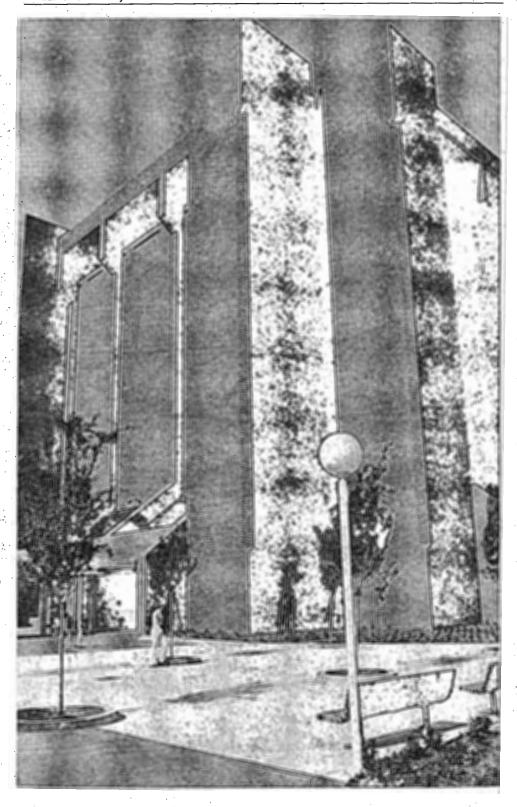


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General Information

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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.

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:

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

- Provide access to appropriate levels of instruction to assist students in meeting career objectives.
- Offer graduate studies in those fields where need exists and where realistic competence can be achieved.
- Provide public services, including continuing education programs, where need exists, support is available, and activities are appropriate to the university's mission.
- Contribute to the broader educational experience of students by participation in effective international and intercultural programs.
- 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.
- Contribute to the body of knowledge through research, creativity, and scholarly activity of its faculty.
- 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 thge 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.

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 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 Business, Education, Engineering, Fine and Applied Arts, Health and Behavioral Sciences, Arts and 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. Keypunches 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 Division 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 John E. Gray Institute

On March 21, 1981, the Board of Regents of Lamar University adopted a resolution creating the John E, Gray Institute. supported by the John E. Gray Foundation. The Institute provides a distinctive new dimension in practical and applicable research and educational services. It is a comprehensive, interactive, multi-purpose center dedicated to the mutual advancement of business, labor and industry and thereby to the general well-being of the economy of the Texas and Louisiana Gulf Coast.

In the long-term perspective, The Institute is envisioned to have substantial impact on the entire Gulf Coast Crescent for future generations. It is appropriately named for Dr. John E. Gray, President Emeritus of Lamar University, a man of profoundly beneficial influence on the region.

The Institute is a privately funded but state operated, non profit center for the development of new information planning initiatives, and the presentation of highly specialized activities and programs. It has four broad and deliberately overlapping functions: applied research and analysis; specialized instruction; problem solving; and information collection and distribution.

By design, The Institute is distinctive in the combination of its several aspects including: its continuing guidance from established leaders of American industry, labor and business; its emphasis on prompt and practical problem solving; its geographically provided opportunity for intense study and service in commercial, labor and industrial activities; its pragmatic, applied research focus; its emphasis on non-traditional and interdisciplinary educational activities; and its operational flexibility.

Handicapped Students

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 Executive Associate to the President 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 by notification initiated by the Executive Associate to the President for the academic dean of the appropriate college. 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 thirdparty assistance to students with impaired hearing. When the Executive Associate to the President has been previously notified of the course or courses involved, notification is forwarded to the department head responsible for the instructional course.

When authorized signers are hired by the instructional department as student assistant the 1980-81 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 at the end of the Spring semester by the Vice President for Finance in response to a requisition memorandum detailing the course, section, total hours of assistance provided, name and social security number of the signer and students assisted.

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 650,000 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 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.)

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, 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
Natural Sciences	.2
Algebra	.1
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

- Submit application for admission on the official form. Inclusion of a social security number is required on this form.
- 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.
- 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 $\frac{2}{3}$ 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. Participation is optional, but is strongly recommended. 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 sessions is limited and advanced 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 particiate 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 tbree semester bours of classroom instruction in some pbase 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		
AB Test	Score of 3 or above	Mth 1335, 148 or
* •		Mth 134, 1341 or
		Mth 1335, 236
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 111, 112

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	CEEB Test	Credit Granted
Area	Required	•
English	English	Eng 131 if validated
	Composition	by completion of Eng
1		136 with a grade of
	•	"C" or better.
Foreign Lang	Spanish	0 to 12 semester hours
	French	depending on place-
	German	ment and validation.
Chemistry	Chemistry	Chem 141 if validated by
		completion of Chem 143
		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. An over-all 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, Lamar University Station, Box 10010, Beaumont, TX 77710.

- Submit application for admission on the official form. Inclusion of a social security number is required on this form.
- 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.
- 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 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. 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.

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.

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 successfully pursue a college course of study.

Applicants are required (1) to take the entrance examination, (2) to submit a record of the school work which was completed, and (3) to 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 Admissions 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; sex; marital status; country of citizenship; major and minor; semester hour load; classification; class schedule; eligibility for and particiation in officially recognized activities and sports; weight and height of members of athletic teams; dates of attendance; degrees and awards received, with dates; previous educational agencies or institutions 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 southeast 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.

Credit-in-Escrow Program

The Credit-in-Escrow 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, workstudy) 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 parttime 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, 1110 Goodhue Building, 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	
General Use Fee	
Setzer Student Center Fee	
Student Health Fee	
Parking Fee (if desired)	
Health Insurance (if desired)	
Books (estimated).	
20010 (00111111100)	
	\$450
	+ lab fees
Part-time Student (Six semester hours):	
Tuition	\$50
Student Services Fee	
General Use Fee	
Setzer Student Center Fee	
Student Health Fee	
Parking Fee (if desired)	
Health Insurance (if desired)	
Books and Incidentals (estimated)	
books and includinals (estillated)	
	\$281
	+ 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.

	No. of	Tui	tion	Student	General	Setzer	Health	Total	Charge
Term	Semester Hours	A	В	Services Fee	Use Fee	Center Fee	Center Fee	A	В
Each	1	\$ 50	\$ 40	\$ 9	\$20	\$20	\$ 5	\$104	\$ 94
Fall	2	50	80	13	20	20	5	108	138
or	3 .	50	120	18	20	20 -	. 5	112	182
Spring	4	50	160	21	24	20	5	120	230
Semester	. 5	50	200	25	30'	20	. 5	130	280
	. 6	50	240	29	36	20	6	141	331
	7	50.	280	33	42	20	7	152	382
	8	50	320	37	48	20	8	163	433
	9	50	360	41	54	20	. 9	174	484
	10	50	400	45	60	20	10	185	535
	11	50	440	45	66	20	11 -	192	582
	12	50	480	45	. 72	20	12	199	629
•	13	52	520	45	. 78	20	13	208	676
	14	56	560	45	84	20	14	219	723
	15	60	600	45 .	90	20	15	230	770
	16	64	640	45	90	20	15	234	810
	17	68	680	45	90	20	15 .	238	850
	18	72	. 720	45	90	20	. 15	242	890
	19	76	760	45	. 90	20	· 15	246	930
	20	80	800	45	90	20	15	250	970
Each	1	\$25	\$ 40	\$ 9	\$20	\$10	\$ 1	\$ 65	\$ 80
Six	2	25	80	13	20	10	2	. 70	125
Week	3	25	120	17	20	10	3	75	170
Summer	4	25	- 160	21	24	10	4	84	219
Session	5	- 25	200	25	30	10	5	.95	270
	6	25	240	25	3 6	10	6	102	317
	7	28	280	25	42	10	7	112	364
	8	32	320	25	48	10	8	. 123	411
	9	3 6	360	25	54	. 10	9	134	458
	10	40	400	25	60	10	10	145	505

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. This or similar insurance is required of all international students.

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 educational benefits provided for veterans of the United States, are exempt from tuition, laboratory fees, student service 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. 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 seperation papers (DD214). Students seperated 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 statue and cannot be waived.

Students who may have both classes 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) 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.

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

Any student officially withdrawing or dropping courses 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.
- During the fourth, fifth or sixth class day, 50 per cent.
- 4. Seventh class day and after, none.

Dropping Courses

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. These refunds will be made to the student six to ten weeks after the session begins.

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 \$5.

Miscellaneous Fees

Associate Diploma		
Certificate of Completion	:	
Bachelor's Diploma		
Master's Diploma		
Ph.D.'s Diploma		
Bachelor's Cap and Gown (disposable)		
Master's Cap, Gown and Hood Rental		
Ph.D.'s Cap, Gown and Hood Rental		
Returned Checks (Bookstore)		

Re-entry Fee5	.00
Transcript Fee	
Advanced Standing Examination (per course)	.00
Photo Identification	.00
Lost Photo I.D	.00
Swimming Pools (suits and towels) Per Semester	.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 statuates 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 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 at-tending 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.

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- (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 members 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 in 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 Competivite 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 authories 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 Penalities

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 admininistrative 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.

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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.

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).
- 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 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 seven calendar days of the beginning of final examinations or three calendar 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 pentaly-free period.

A student may not withdraw within ten calendar days of the beginning of final examinations or five calendar 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.

Transfer Credit for Correspondence Courses

Lamar does not offer courses by corresponsence. 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 \$5 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).

Grading System

A - Excellent W - Withdrawn

B — Good O — 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. 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.

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 Record's 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 creditenials 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 hour 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 and Spring Semesters shall be suspended for the following semester provided that no first time college student shall be suspended at the end of his/her first semester of attendance.

Students suspended from Fall and/or Spring Semesters 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 may register for the following Fall Semester but will be charged with a suspension.

Students returning from an academic suspension must continue to reduce their grade point deficiency every semester of enrollment until the deficiency is eliminated. Should students fail to reduce their deficiency in any one semester, they will be suspended, unless approved for probationary re-enrollment by the dean of their college.

The first academic suspension shall be for one long semester; the second for two long semesters; and the third for four long semesters and readmission only with special permission of the dean of the academic college.

A college may prescribe academic requirements for its majors in addition to the basic university grade point standard, with the approval of the vice-president for Academic Affairs. 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 grade point average of at least 2.0 both on all courses in the major field and on all courses attempted.
 - 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. 18 hours must be completed at Lamar University.
 - (3) 24 semester hours in a major field with at least 12 in upper division courses.

- (4) 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. 3 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 at least one course in laboratory science and at least one course in mathematics at or above the level of Math 1334.
- (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 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.
- 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 to be absent from the Dean of Admissions and Registrar.

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.
- 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.
- Meet the specific requirements of the selected program of study as listed in the department concerned.

Bachelor of Science Degree

- Meet the University's general education requirements for a bachelor degree.
- 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.
- 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.
- 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:

- 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.
 - 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.
 - Two semesters of physical education activity and/or marching band and/or ROTC-(see note 4)
- Complete the course numbered 232 in a foreign lànguage.
- 4. Complete an Associate of Arts program of study as outlined in the bulletin.
- No more than a total of 15 semester hours of correspondence and extension credit may be applied toward the degree.
- Make application for the Associate of Arts degree and pay all designated fees.

Associate of Science Degree (A.S.)

- 1. Satisfy all admission conditions.
- 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.
 - 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)
 - Two courses in laboratory science or mathematics.
 - h. Two semesters of physical education activity and/or marching band and/or ROTC-(see note 4)
- Complete an Associate of Science program of study as outlined in the bulletin.
- No more than a total of 15 semester hours of correspondence and extension credit may be applied toward the degree.
- Make application for the Associate of Science degree and pay all designated fees.

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

- Satisfy all admission requirements.
- 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.
- 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:

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.

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- 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 advan ed standing examination.
- A score of 31 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.

All full-time students must register for physical activity courses until they have met the requirement except as follows:

- 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.

Those who are 25 or more years of age, at their option.

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:

- Statements showing reasonable expectation of completion of degree requirements 1. 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.
- Receipt showing payment of cap and gown and diploma fees. 3.
- Clearance of all financial and property matters to date.
- 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 interrups 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, (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, Career and Learning Center

Lamar University maintains a Counseling ,Career, and Learning 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 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 the Guidance Information System, a computerized guidance system, as well as 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), and Miller's Analogies 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 the use of students. Two types of service are available: (1) out-patient service for those who have minor ailments but who do not require constant supervision, and (2) infirmary service for those who are in need of the continued attention of the University physician or of nursing care.

It is not possible for the University to provide unlimited medical service. Special medicines, examinations, treatments, X-rays and laboratory tests are not furnished. No charge is made, however, for up to 10 days care each semester in the Health Center, except for meals

All students pay a Health Service Fee of \$5 up to 5 semester hours then \$1 for each additional hour with a maximum of \$15 for each of the Fall and Spring semesters, and \$1 per semester hour with a maximum of \$10 for each of the Summer sessions. Vaccines, serums and gamma globulin will be given in the Health Center from 1:00 to 4:30 P.M. Monday through Friday free of charge. Pre-admission vaccinations are not included. All drugs prescribed and dispensed in the Health Center are free of charge except for a limit of one prescription refill per illness or accident. The first \$100 of costs for emergency care of accidental injuries sustained on the campus and treated in a local hospital or doctor's office will be paid from student health fees. For services in the Health Center, each student must present his or her student identification card.

The Health Center is located on East Virginia Street adjacent to tennis courts. The Health Center does not provide care for students requiring surgery or the services of specialists. In these cases, every effort will be made by the physician or nurse to refer to a doctor or facility for treatment; furthermore, every effort will be made to notify the parent or guardian of the student's needs.

The University assumes no responsibility for continued medical care for chronically ill or injured students. These students should arrange for the care of a private physician. When the University is not in session, the Student Health Center is not responsible for a student's health care.

The University is not under obligation to provide hospital services elsewhere if the Health Center is filled to capacity. The Health Center, however, has a sufficient number of beds for all normal needs.

Students who are ill should report promptly to the Health Center for medical 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 in 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/Dean of Students, 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 mathematics 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 educationally or economically disadvantaged 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, noncredit 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, 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 150 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 or sports 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 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 baccalaurate 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/Dean of Students 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 Student Development 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 Student Development and the action of the Discipline Committee is subject to review by the Vice-President for Student Affairs/Dean of Students.

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

Student Housina

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's 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.

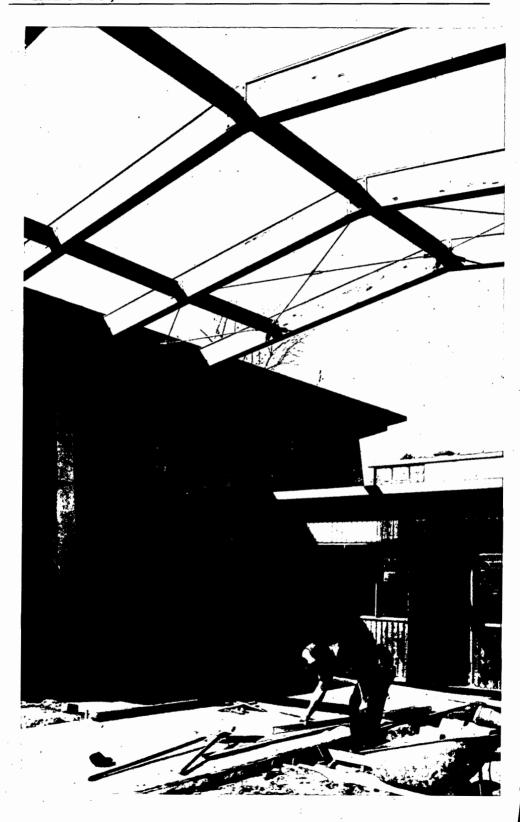
Fees

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 Preston B. Williams. Ph.D. Dean

Degree Offerings

Bachelor of Arts with majors in the following fields:

Chemistry Government
English History
French Sociology
Geology Spanish

Bachelor of General Studies—Liberal Arts

Bachelor of Science with majors in the following fields:

Biology Geology Chemistry Government

Medical Technology Physics

Oceanographic Technology Environmental Science

Energy Resources Management Sociology

Criminal Justice

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—Liberal Arts

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 II

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	Eng Literature6
Bio 141, 142 General8	Bio 240 Comp Anatomy
Chm 141, 142 General8	Bio 243, 244 Microbiology
*Mth6	Chm 341, 342 Organic
Phy 141-142	His 231-2326
PE/MLb 124**/ROTC	Elective
	PE/MLb 124**/ROTC
20.70	
38-40	37-39

^{*}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.

K. M. St. Warder St. T. W.

First Year	Second Year
Eng Composition	Eng Literature
Bio 141, 142 General8	Bio 347 Genetics
Chm 141, 142 General8	Chm 341, 342 Organic8
Soph Am His	Gov 231-232
Mth 1335 Precalculus3	Phy 141-142 General
Mth 236 Calculus I	
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 General8	Bio 245 Microbiology
Chm 141, 142 General	Chm 341, 342 Organic
Eng Composition	Phy 141, 142 General8
Mth 1335 Precalculus	Eco 233 Principles and Policies
PE Activity	Eng Literature6
*Electives	*Electives3
30-32	32
Summer	
His 231, 232 American6	
Gov 231, 232 American	
. 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	Bio 245 Microbiology
Chm 141, 142 General	Bio 344 Advanced Physiology4
Eco 233 Principles	Chm 341, 342 Organic8
Eng Composition6	Phy 141, 142 General
Mth 1335 Precalculus	Spc 331 Bus and Prof
Mth 236 Calculus	**Electives8
31	35
Summer	•
His 231, 232 American	
Gov 231, 232 American	•

^{**}Chosen from Behaviorial or Social Sciences

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

First Year	Second Year
Bio 141, 142 General8	Bio 245 Microbiology
Chm 141, 142 General8	Chm 341, 342 Organic8
Eng Composition	Phy 141, 142 General8
Mth 1334 Algebra	Eng Literature6
Mth 1335 Precalculus3	Eco 233 Principles
PE Activity	Hum Fine Arts Apprec
31	32
Summer	
His 231, 232 American	
Gov 231, 232 American	·
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.

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 Arts and 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: 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, Smith.

Adjunct Instructors: Autrey, Braud, Callicutt, Daigrepont, Frankland, German, Ingalls, R. Jones, Oates, Sheppeard, Vaughn, Western, Zurlo

Laboratory Supervisor: Pardo

*On leave

the total material as well.

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 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).

C. Minor:

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

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 334, 3312 or 430.
- 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 Composition6	Eng Sophomore Lit
His 131-132 World Civilization	Sophomore Am. History
Foreign Language 131-132	Gov. 231 and 2326
Mth	Foreign Languages 231-2326
Electives	Electives6
PE Activity	PE Activity
32	32
Third Year	Fourth Year
Eng	Eng 430 History of the English Language
Laboratory Science8	Eng
Minor9	Minor9
Electives6	Electives
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

*Science laboratory eight semester hours

Sophomore American History six semester hours

Sophomore American Government six semester hours

Physical Education or Band 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.

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).
- 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

*Maj Lang 131-132 Elementary	Second Year Maj Lang 231, 232 Intermediate .6 Eng Literature .6 Sophomore American His .6 **Sci .8 HPE .4 Elec .2
32	32
Third Year	Fourth Year
Maj. Lang: Fre 330, 337, 338	Maj Lang Adv. .3 Elec incl minor. .30
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 requirements in regard to science and mathematics.

^{**}Students may follow general degree requirement in regard to Science and Mathematics

English Courses (Eng) 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 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 3:3:0 Composition 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 3:3:0 Composition 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 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 long semesters 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.) Developmental Reading and Writing 137 Development of writing skills, broadening reading background and improvement of reading comprehension. Emphasis on inidvidualized instruction in composition. This course does not satisfy general degree requirements for Freshman English. (Note: Satisfactory completion of this course for those who score 30 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. 3:3:0 Masterworks of American Literature 2312 Critical study of six to ten major works of American literature, including both the nineteenth and twentieth centuries. 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. 3:3:0 Sophomore Literature Honors Course 2318 Critical studies of several major works of British and World Literature from classical antiquity to the present century, designed especially for honors students. 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. 3:3:0 333 Shakespeare 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. 3:3:0 334 Advanced Grammar Intensive analysis of sentences, the concept of structural meaning. Creative Writing 3:3:0 335 A workshop approach to the writing of poetry, fiction and drama. Prerequisite: Recommendation by the department head. May be repeated with permission of department head. 3:3:0 336 The Short Story The technique of the short story; its historical development; study and analysis of great short stories. 337 3:3:0 The Drama

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
220	than once if the topic varies.	3:3:0
339	American Novel A study of the history, growth and technique of the American novel, with emphasis on the novels of the twe	
	century.	
3312	Introduction to Linguistics	3:3:0
00	A survey of descriptive and historical linguistics intended to provide some understanding of the nature of lan	guage
	and linguistic change, of the current methods used in describing and comparing languages, and of the interact	ion of
	language and culture.	
3313	Mythology	3:3:0
	Classical, Scandinavian, German and Oriental mythology emphasizing the myths, deities and great lege	
	characters of Greek, Roman, Scandinavian, Teutonic and Oriental civilizations most frequently referred to	in the
•	literature of the Western world.	
3316	Poetic Analysis	3:3:0
2221	A study of the forms and techniques and the critical evaluation of poetry.	3:3:0
3321	Methods of Teaching English Methods of teaching reading and composition at the secondary level, with special attention to the assigning	
	evaluating of written work.	g, and
3322	The American Literary Renaissance: 1820-1860	3:3:0
<i>J</i>	An intensive study of the major authors of the period from Poe to Melville.	0.0
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.	
3331	Advanced Survey of British Literature	3:3:0
	Intensive survey of British literature from the beginnings to 1800, with wide collateral reading in literary hist	ory.
3332	Advanced Survey of British Literature	3:3:0
	Intensive survey of British literature from 1800 to present, with wide collateral reading in literary history.	
430 .	,	3:3:0
,_ <u>:</u> _	Theory and nature of language. Studies in the growth of English and American forms.	
432	Studies in Sixteenth Century Literature	3:3:0
424	Critical studies in the poetry, prose and drama of the age. May be taken for credit more than once if the topic	3:3:0
434	Shakespeare Intensive study of selected major plays.	3.3.0
435	·	3:3:0
-33	Critical studies in the poetry, prose and drama of the period 1600-1660. May be taken for credit more than once	
	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
6211	topic varies.	3:3:0
4311	Studies in Victorian Literature Critical studies in the poetry and prose of the Victorian period. May be taken for credit more than once if the	_
	varies.	topic
4312	Studies in Language and Linguistics	3:3:0
	Special problems in linguistics, such as the history of American English, regional dialects, new grammars. M	-, -
	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 Conti	nental
1000	authors.	
4322		3:3:0
423E	Selected works from nineteenth and twentieth century Russian literature in translation. Pushkin to Sholokov.	
4325	Language: Sound and Meaning Theory of language for non-Realish majors. A study of meaning as related to words and to grammatical fee	3:3:0
	Theory of language for non-English majors. A study of meaning as related to words and to grammatical featinglish phonology as applied to orthography. May not be counted for English major credit.	aures.
4326	Expository Writing	3:3:0
-5-0	The practical application of the techniques of mature exposition; classification, explanation, evaluation	
	Francis of the formation of the first o	

4327	Bibliography and Methods of Research 3:3:0
1327	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
(22)	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
4225	once for credit when the topic varies. Technical Report Writing 3:3:0
4333	Supervised preparation of technical and scientific reports according to standard usage recommended by scientific
	and engineering societies. English majors who take this course must count it as an elective.
	Prerequiste: 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
٠.	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.
	(0.0)
Phi	losophy Courses (PhI)
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
224	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 Persissance through the pineteenth control complete upon
	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
. 130	Selected topics in philosophy. Course may be repeated for credit when topic changes.
	· · · · · · · · · · · · · · · · · · ·
Enc	lish as a Second Language (ESL)
130	Study Skills and Cultural Orientation 3:3:0
130	Preparation for library research, dictionary use and American testing procedures. Focus on aspects of American
	culture that affect the foreign student studying in the United States.
131	Pronunciation and Conversation 3:3:0
	The course focuses on phonology and grammatical patterns of American English. Oral presentations and practice in
	The course focuses on phonology and grammatical patterns of American English. Oral presentations and practice in idiomatic expression. Frequent use of laboratory tapes.
132	
132	idiomatic expression. Frequent use of laboratory tapes.
132	idiomatic expression. Frequent use of laboratory tapes. Listening Comprehension 3:3:0 The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations.
132 133	idiomatic expression. Frequent use of laboratory tapes. Listening Comprehension 3:3:0 The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations. Reading and Vocabulary Development 3:3:0
	idiomatic expression. Frequent use of laboratory tapes. Listening Comprehension 3:3:0 The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations. Reading and Vocabulary Development 3:3:0 The course emphasizes vocabulary building and increasing reading comprehension skills. Use of magazines,
133.	idiomatic expression. Frequent use of laboratory tapes. Listening Comprehension 3:3:0 The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations. 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.
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133.	idiomatic expression. Frequent use of laboratory tapes. Listening Comprehension The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations. Reading and Vocabulary Development The course emphasizes vocabulary building and increasing reading comprehension skills. Use of magazines, newspapers and other types of reading material. 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
133.	idiomatic expression. Frequent use of laboratory tapes. Listening Comprehension The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations. Reading and Vocabulary Development The course emphasizes vocabulary building and increasing reading comprehension skills. Use of magazines, newspapers and other types of reading material. Grammar and Writing Skills 7:3:0 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
133 134	idiomatic expression. Frequent use of laboratory tapes. Listening Comprehension 3:3:0 The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations. 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. 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.
133.	idiomatic expression. Frequent use of laboratory tapes. Listening Comprehension 3:3:0 The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations. 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. 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. Composition: English as a Second Language 3:3:0
133 134	idiomatic expression. Frequent use of laboratory tapes. Listening Comprehension 3:3:0 The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations. 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. Grammar and Writing Skills 3:3:0 Frogressive 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. 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
133 134	idiomatic expression. Frequent use of laboratory tapes. Listening Comprehension 3:3:0 The course aims toward achieving the goal of understanding native speech at normal speed in unstructured situations. 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. 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. Composition: English as a Second Language 3:3:0

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
222	English is a second language. World Masterpieces in English Translation 3:3:0
232	
	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
131	The course deals with techniques for teaching basic English skills and literature to non-native speakers. Socio-
	cultural aspects of second language learning.
432	Special Topics in Applies Linguistics 3:3:0
-5-	Special problems in applied linguistics such as ESL training methodology, cross-cultural, communication and
	language acquisition and development. May be taken for credit more than once if topic varies
Fre	nch Courses (Fre)
131	Elementary French 3:3:0
	Pronunciation, conversation, reading, dictation, grammar. Use of tapes.
132	Elementary French 3:3:0
-5-	Pronunciation, conversation, reading, dictation, grammar. Use of tapes.
	Prerequisite: Fre 131 or equivalent determined by examination.
133	First Year French 3:3:0
-	Pronunciation, conversation, reading, dictation, grammar. Use of tapes. This course is designed for students who
	have had two or more years of the language in high school but who are not ready to go into the intermediate courses.
	Students who take this course will finish the entire first year of the language in one semester and will then be eligible
	to enter the intermediate courses.
134	Modern French Literature in Translation 3:3:0
	A study of representative works of the twentieth century in translation, including such writers as Gide, Mauriac,
•	Sartre, Camus, Ionesco and the masters of the new novel. The course will consist of an analysis of the principal works
	of the authors followed by class discussion.
231	Reading, Composition, Conversation 3:3:0
	Prerequisite: Fre 132 or equivalent.
232	Reading, Composition, Conversation 3:3:0
220	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
<i>J</i> J1	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.
	Decemposision, Franch 222 on agriculant

430	Problems in Teaching Foreign Languages 3:3:0
	An examination of materials and methods used to teach a foreign language. A careful analysis of those areas of French
	and Spanish which are of particular importance and which are particularly difficult for beginning students to learn.
	Preparation of pattern drills. Examination of textbooks for secondary and elementary levels. Demonstration
	teaching. Open only as elective credit to students desiring teacher certification in French and Spanish.
	Prerequisite: 6 advanced hours in the language.
431	The Nineteenth Century French Novel 3:3:0
,	Prerequisite: 6 hours of advanced courses in French.
433	17th Century French Literature 3:3:0
	A study of representative plays of Corneille, Racine and Moliere, with secondary stress on the prose and poetry of the
	period.
420	Prerequisite: 6 hours advanced courses in French. Survey of French Literature through the 18th Century 3:3:0
435	
	Readings from significant works. Lectures, readings, oral and written reports.
436	Prerequisite: Six hours advanced courses in French. Survey of French Literature Since the 18th Century 3:3:0
430	Survey of French Literature Since the 18th Century Readings from significant works. Lectures, readings, oral and written reports.
	Prerequisite: Six hours advanced courses in French.
437	French Poetry 3:3:0
137	A study of the evolution of French poetry, with primary stress on the poetry of the 19th and 20th centuries.
	Prerequisite: Six hours advanced courses in French
438	Directed Study 3:3:0
1,50	Students may study individually with an instructor in an area of mutual interest to the student and the instructor. May
	be taken for credit more than once if the topic varies.
Gei	rman Courses (Ger)
131	Elementary German 3:3:0
131	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.
	Trerequipme. Get 151 or equipment accommend by examination.
Ital	ian Courses (Ita)
131	Elementary Italian 3:3:0
1,71	Conversation, reading, dictation, grammar. Use of tapes. Emphasis will be placed on vocabulary and pronunciation.
132	Elementary Italian 3:3:0
-J-	Conversation, reading, dictation, grammar. Use of tapes. Emphasis will be placed on vocabulary and pronunciation.
	Prerequisite: Italian 131.
Spa	anish Courses (Spa)
131	Elementary Spanish 3:3:0
-3-	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.
133	First Year Spanish 3:3:0
	Pronunciation, conversation, reading, dictation, grammar. Use of tapes. This course is designed for students who
	have had two or more years of language in high school but who are not ready to go into the intermediate courses.
	Students who take this course will finish the entire first year of the language in one semester and will then be eligible
	to enter the intermediate courses.
134	Spanish for Health Care Services 3:3:0
	Emphasis is placed on pronunciation, vocabulary and basic conversation related to hospital care and nursing
	services. This course will concentrate on practical Spanish for doctors, nurses and other helath care personnel.
	Taped laboratory material available.
231	Reading, Composition, Conversation 3:3:0
	Prerequisite: Spa 132 or equivalent.
232	Reading, Composition, Conversation 3:3:0
٠	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.)

<u> </u>	
	2.24
331	Culture and Civilization of Spain and Spanish America 3:3:
	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. Culture and Civilization of Spanish-American Countries 3:3:
332	Cuitare and Civiliana Civi
	A study of the geography, history, government, art, economic resources and psychology of South America. Lectures
	readings, oral and written reports.
	Prerequisite: Spa 232. Survey of Spanish-American Literature 3:3:
333	builty of optimizations and an arrangement of the state o
	A study of outstanding writers and their works up to the nineteenth century <i>modernista</i> movement. Lectures
	readings, oral and written reports.
	Prerequisite: Spa 232.
334	Survey of Spanish-American Literature 3:3:
	A study of outstanding writers and their works from the modernista movement to the present day. Lectures
	readings, oral and written reports.
	Prerequisite: Spa 232.
335	Advanced Composition 3:3:
	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.
336	Advanced Composition 3:3:
	Continuation of vocabulary building and stylistics of written Spanish. Development of the term paper on topics o
	interest to the student as well as literary topics. Frequent written reports.
	Prerequisite: Spa 232, but it is recommended that the student take Spa 335 first.
337	Contemporary Spanish-American Short Story 3:3:
	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:
	Prerequisite: 6 hours of advanced Spanish.
432	Development of Spanish Novel 3:3:
	Prerequisite: 6 hours of advanced Spanish.
433	Survey of Spanish Literature Through the 17th Century 3:3:
	A study of the most significant works of Spanish literature through the seventeenth century. Readings from El Ctd, E
	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:
,	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.
126	Prerequisite: 6 hours of advanced Spanish.
436	Spanish American Novel 3:3:
	Prerequisite: 6 hours of advanced Spanish.
438	Directed Study 3:3:
	Students may study individually with an instructor in an area of mutual interest to the student and the instructor. May

Lamar Overseas Study Program

be taken for credit more than once if the topic varies.

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, 1981, 1983, etc., for as long as there is interest in it. Participants study French and German 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. The German courses may be taken as electives. Students who have not completed elementary or intermediate language courses, that is, language 131, 132, 231 and 232, may take those courses abroad.

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

3.3.4

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:

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.

4371 German Studies Abroad

3:3:A

A study of the German 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.

4372 German Studies Abroad

3:3:A

Students may register for this course concurrently with German 4371. A study of the German 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.

4373 German Studies Abroad

3:3:4

The course is designed for students who have completed German 4371 or 4372. It consists of a more advanced study of German 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.

Prerequisite: German 4371 or 4372.

4374 German Studies Abroad

3:3:A

Students may register for this course concurrently with German 4373. The course is designed for students who have completed German 4371 or 4372. It consists of a more advanced study of the German 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.

Prerequisite: German 4371 or 4372.

Department of Government

Department Head: Manfred Stevens

56 Liberal Arts Building

Professors: Stevens, Pearson

Associate Professors: Drury, Lanier, Utter

Assistant Professors: Dubose, Sanders, Stidham

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, 436, 437, 3301, 3312, 3313, 3315); political philosophy (Gov 3302, 3303, 433); international relations (Gov 332, 336, 337, 435); comparative government (Gov 331, 3317, 4381, 4382, 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:

Six hours of mathematics and eight hours of science.

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

Recommended Program of Study

First Year	Second Year
Gov 131	Eng—Literature
Eng—Composition	Foreign Language
Foreign Language6	PE Activity
Mth (incl 1334)6	AM His6
PE Activity	Gov 231-232
Electives •	Gov 3319
	,
. 29	. 31
Third Year	Fourth Year
Gov (Adv)	Gov (Adv)
Electives or Edu 331, 332, 338	Electives or Edu 438 and 462
Laboratory Science	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.

^{*}For science and mathematics the general degree requirements may be followed.

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.

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Recommended Program of Study

First Year	Second Year
Gov 1313	Eng-Literature6
Eng—Composition	Am History
Math (incl 1334)	Gov 231-232
PE2	Gov 33193
Computer Science	PE Activity
Electives*	Approved Electives
32	31
Third Year	Fourth Year
Gov (Adv)	Gov (Adv)6
Laboratory Science8	Minor and Electives
Gov 43193	
Minor and Electives	
30-34	27.30
J0-J1	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. While this is primarily directed at the pre-law student, other programs are being planned to allow students cooperative education experience in local government, public administration and with the Lamar Social Data Center. 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

3:3:0

A study of the national and Texas constitutions; federalism; political socialization and participation; public opinion and interest groups; parties, voting and elections.

Prerequisite: Sophomore standing.

231H Introduction to American Government I Honors

3:3:0

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.

Prerequisite: Sophomore standing and departmental approval.

232 Introduction to American Government II

3:3:0

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.

Prerequisite: Government 231.

232H	Introduction to American Government II Honors 3:3:0
	A study of the legislative, executive and judicial branches and the bureaucracy; policy formulation and implementa-
	tion including civil rights and civil liberties; domestic and foreign policies.
	Prerequisite: Sophomore standing and departmental approval.
	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 Govern-
	ment.
121	Introduction to Political Science 3:3:0
131	
	An introductory survey of political ideas and institutions and a review of the methods for analyzing the political
	behavior of individuals, groups and nations.
2322	Texas Government 3:3:0
	A study of the constitution, government and politics of Texas.
321	Legal Internship I 2:2:0
	Practical experience in law office procedure and operation with career related assignments and projects under the
	guidance of a faculty member.
	Prerequisite: Approval of department bead.
322 .	Legal Internship II 2:2:0
	Practical experience in law office procedure and operation with career related assignments and projects under the
	guidance of a faculty member.
	Prerequisite: Approval of department head, Gov 321.
323	Legal Internship III 2:2:0
	Practical experience in law office procedures and operation with career related assignments and projects under the
	guidance of a faculty member.
	Prerequisite: Approval of department head, Gov 322.
331	The Politics of Developed Nations 3:3:0
331	An analysis of the political culture, political structure and decision-making process of developed nation-states with
222	major emphasis on Western European systems.
332	Studies in International Politics 3:3:0
	A study of the concepts underlying the Western State system; nationalism and imperalism; the techniques and
22.	instruments of power politics and the foreign policies of selected states.
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.
336	International Institutions 3:3:0
	An analysis of the political and legal foundations of international organizations with emphasis on the procedure and
	machinery for the peaceful settlement of international disputes. The League of Nations, the United Nations,
	specialized agencies, disarmament and regional arrangements will be considered.
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
3301	The structure, functioning and political control of legislative bodies.
3302	Classical Political Thought 3:3:0
3302	· ·
2202	The chief concepts of outstanding political thinkers from the Greeks to the Renaissance.
3303	Modern Political Thought 3:3:0
	A continuation of Government 3302 from the Renaissance to Karl Marx, including the Reformation leaders, Hobbes,
	Locke, Rousseau and Hegel.
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
	7.50

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.
424	Administrative Internship IV 2:2:0
747	Practical experience in administrative office procedure and operation with career related assignments and projects
	under the guidance of a faculty member.
425	Prerequisite: Approval of department head, Gov 326. Administrative Internship V 2:2:0
425	The state of the s
	Practical experience in administrative office procedure and operation with career related assignments and projects
	under the guidance of a faculty member.
420	Prerequisite: Approval of department head, Gov 424. Organization Theory and Behavior 3:3:0
430	Organization Theory and Behavior 3:3:0 A study of the structural and management aspects of public administration, theory and practice; policy formation
622	processes and techniques. Contemporary Political Thought 3:3:0
433	Contemporary Political Thought 3:3:0 The significant trends in political thought from Karl Marx to the present, including Lenin, Sorel, Green, Freud and
424	elitist and fascist writers. Formulation of Public Policy 3:3:0.
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
425	studied will vary from semester to semester. The International System 3:3:0
435	The International System 3:3:0 The study of the legal bases of the modern international system and the political and the political and legal
426	characteristics of developing world order. American Constituional Law and Development 3:3:0
436	American Constituional Law and Development 3:3:0 Development of the American Constitution through judicial interpretations, with particular emphasis on cases
	· · · · · · · · · · · · · · · · · · ·
427	dealing with federalism, commerce, congress and the executive. American Constitutional Law and Development 3:3:0
437	A continuation of Gov 436 with particular emphasis upon cases dealing with due process and civil rights.
439	Special Topics in Public Administration 3:3:0
437	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
4510	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
4512	
4210	A survey of American state political systems from a comparative basis.
4319	
4204	Analysis or study of special problems, topics, cases, models and theories in political science research.
4381	Government and Politics of the Soviet Union 3:3:0 A study of the origin, development, structures, functions and behavior of the Soviet decision-making organs.
4202	
4382	Government and Politics of East Asia 3:3:0
	An introduction to the political ideas, institutions and process of China and Japan considered against their social and
4202	economic development with special emphasis on contemporary political problems.
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, Williams, 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:

- 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	Sophomore American History
Freshman English	Literature (including Eng 2311)6
Foreign Language	Foreign Language6
Mth	Science
Electives	Sophomore Government
PE—Activity	PE—Activity
32	36
Third Year	Fourth Year
His 339	His (Adv)6
His (Adv)6	Edu 438 and 462 or Minor (or other Teaching Field) and
Electives	Electives
Minor (or other Teaching Field) and Electives 12-14	•

30-32

His	tory Courses (His)	
131	History of World Civilization	3:3:0
	Survey of world history to 1660.	
132	History of World Civilization	3:3:0
	Survey of world history from 1660 to 1965.	
134	History of Texas	3:3:0
	Survey of Texas history from the beginning to the present time.	
231	American History: History of the United States, 1763 to 1877	3:3:0
	Survey of United States history from the revolutionary period through reconstruction.	
231H		3:3:0
	Survey of United States from the revolutionary period through reconstruction, designed especially for	honors
	students.	
222	Prerequisite: departmental approval.	220
232		3:3:0
232H	Survey of United States history from the post-reconstruction period to the present. American History: History of the United States, 1877 to the Present	3:3:0
23211	Survey of United States history from the post-reconstruction period to the present, designed especially for	_
	students.	Honors
	Prerequisite: departmental approval.	
233	American History: The Development of Society in America	3:3:0
-00	A historical survey of social change in the United States.	5.5.0
234	American History: The Arts in America	3:3:0
	A historical survey of cultural life in the United States.	
235	American History: The Americas to 1810	3:3:0
	The United States and the Western Hemisphere from the beginning to 1810.	
236	American History: The Americas since 1810	3:3:0
	The United States and the Western Hemisphere since 1810.	
	NOTE: Various colleges and departments may counsel their majors into certain of the American	aistory
	courses listed above; otherwise the student may satisfy his/her American history requirem	ent by
	taking any two courses selected from History 231, 232, 233, 234, 235 or 236.	
330	History of Ideas	3:3:0
221	The Judeo-Christian and Greco-Roman elements in the Western intellectual tradition.	2.2.0
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	3:3:0
332	Life and thought in the United States since 1865.	3.3.0
333	History of American Economic Life	3:3:0
550	A study of economic change in the context of institutional development in the United States.	
334	Military History of the United States	3:3:0
	History of American warfare and the development of American military institutions and practices.	
337	Diplomatic History of the United States	3:3:0
	Historical development of American diplomacy.	
338	Urban History of the United States	3:3:0
	The origin and development of cities in the United States.	
339	Historical Research	3:3:0
/==	Principles and methods of historical research.	220
430	Era of the Renaissance and Reformation	3:3:0
421	Western Europe from 1453 to 1610	2.2.0
431	The Old Regime	3:3:0
432	Western Europe from 1610 to 1783. The French Revolution and Napoleon	3:3:0
434	Western Europe from 1783 to 1815.	3.3.0
433	Russia and Eastern Europe to 1860	3:3:0
433	Russia, Poland, and the Balkans from the period of the Byzantine Empire to 1860.	3.3.0
434.	Nineteenth Century Europe	3:3:0
131.	Europe from 1815 to 1914.	3.3.0
435	Twentieth Century Europe	3:3:0
-57	Europe since 1914.	
436	The American West	3:3:0
-5-	The American West from colonial times to the present.	
437	The Old South	3:3:0
	The American South from colonial times to the Civil War.	
438	The New South	3:3:0
	The American South from the Civil War to the present.	

439	Honors Program	3:A:0
	A tutorial program for honors seniors. Admission by invitation only.	
4311	Colonial America	3:3:0
4312	The American Revolution	3:3:0
4313	The Age of Jackson	3:3:0
4314	The American Civil War	3:3:0
4315	Reconstruction and Industrialization: The United States from 1865 to 1898	3:3:0
4316	World Power and Reform: The United States from 1898 to 1920	3:3:0
4317	New Deal and World Leadership: The United States from 1920 to 1940	3:3:0
4318	Classical Civilization	3:3:0
	Greece and Rome from earliest times to the fall of the Roman Empire in the West.	
4319	Medieval Civilization	3:3:0
	Western Europe and the Mediterranean area from the late Roman period to 1453.	
4321	The Far East to 1800	3:3:0
	Japan, China, Indo-China and India to 1800.	
4322	The Far East since 1800	3:3:0
	Japan, China, Indo-China and India since 1800.	
4323	Latin America to 1810	3:3:0
4324	Latin America Since 1810	3:3:0
4325	Tudor and Stuart England	3:3:0
	England from 1485 to 1688.	
4326	Eighteenth Century England	3:3:0
	England Great Britain from 1688 to 1815.	
4327	Victorian England	3:3:0
	Great Britain from 1815 to 1914.	
4328	Contemporary America: The United States Since 1940	3:3:0
4329	Modern European Intellectual History	3:3:0
	An examination of the major European intellectual movements and thinkers from the Renaissance to the p	resent.
4331	Russia Since 1860	3:3:0
	The development of modern Russia, from 1860 to the present.	
4332	Afro-American History to 1865	3:3:0
	The black experience in Africa and in the Western Hemisphere prior to emancipation.	
4333	Afro-American History since 1865	3:3:0
	The black experience toward achieving freedom in the United States.	
4334	Early National Period	3:3:0
	The United States from 1789 to 1820.	
4335	Topics in History	3:3:0
	Selected special topics in major areas of history. Course may be repeated for a maximum of six semester hou	rs credit
	when the topic varies.	
4336	Ancient Near East	3:3:0
	The civilizations of the Near East from the earliest times to the pre-classical period.	
4337	Directed Studies in European History	3:A:0
	Individual study with an instructor in an area of mutual interest. May be repeated for a maximum of six s	emester
	hours credit when topic varies.	
(222	Prerequisite: Departmental permission.	
4338	Directed Studies in American History	3:A:0
	Individual study with an instructor in an area of mutual interest. May be repeated for a maximum of six s	emester
	hours credit when topic varies.	
(225	Prerequisite: Departmental permission.	
4339	Directed Studies in Historical Research	3:A:0
	Individual study with an instructor on historiography and historical research methods.	
	Prerequisite: Departmental permission	

Department of Sociology, Social Work and Criminal Justice

Department Head: Wayne C. Seelbach

55 Liberal Arts Building

Professor: Altemose

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

Assistant Professors: Love, Monroe, Smith

Instructor: Sims

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 1301—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
Soc6	Soc6
Psy 131	CJ 1301
Swk 2313	Eng Literature
Eng Composition	Eng 4335, Spch, Lit, or Lang
Math	His Sophomore American
Science	Minor/electives
PE Activity	PE activity
34	32-34
Third Year	Fourth Year
Soc	Soc 438, 439
Minor/Electives	Gov 231, 2326
	Minor/Electives
30	

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
Soc6	Soc3
Eng Composition	Swk 2313
Math6	CJ 1301
Science	Psy 131
Language6	Eng Literature6
PE Activity	
	His Soph American6
	PE Activity
34	32-34
Third Year	Fourth Year
Soc	Soc 438, 439
Gov 231, 2326	Minor/Electives
Minor/Electives	
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:

- Six hours in mathematics to include Mth 1334 and eight hours in the same laboratory science.
- An approved 24 hour additional teaching field. (See list of approved teaching fields in the College of Education section of this bulletin.)
- 3. Education: 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 Consittutional Law and Development

. 海南大学经济中部海外中心

Government 437—American Constitutional Law and Development

arine interest and the property

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.

Major—33 semester hours

Social Work 131, 231, 331, 332, 333, 334, 335, 432, 4321, 4324, plus 3 hours of electives in Social Work.

Professional Core-21 hours C. 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:
 - 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.
 - Electives—Sufficient approved electives to complete a total of 124 semester hours. E.

Recommended Program of Study

First Year	Second Year
Eng Composition	Eng Literature
Math6	His Sophomore American
Swk 131, 1326	CJ 1301
Soc 131, 132	Swk 331
Psy 131	Science (Bio)
PE Activity	Psy 234 or 235
	Electives
	PE activity
•	

Third Year	Fourth Year
Eng 4335, Spch, Lit, or Lang	Swk 334, 432, elective
Gov 231, 2326	Swk 4321, 4324 (Field Placement)6
Soc 336, 438	Minor/Electives
Swk 332, 333, 3359	· · · · · · · · · · · · · · · · · · ·
Minor/Electives	

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
 - CI 1301—Crime and Criminals
 - CI 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

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

- CI 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

- CI 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

^{*}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 bours of CJ 434—Applications.

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 331 and CJ 435 as electives.)

Recommended Program of Study

First Year	Second Year
Eng Composition	Eng Literature3
Math6	Eng 4335, Spch, Lit, or Lang
Science	Psy 131
Criminal Justice	Swk 2313
Soc 131	Criminal Justice
PE Activity	PE activity
31	29-31
Third Year	Fourth Year
Gov 231, 2326	Soc 438
His Sophomore American	Criminal Justice
Criminal Justice	Electives
Electives	
	
. 33	. 31

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	Gov 231, 2326
Eng Composition	Eng Literature3
Math and/or Lab Sci	Criminal Justice
His Sophomore American6	Electives
PE Activity	
Criminal Justice	
32-34	30

Sociology Courses (Soc)

131	Introduction to Sociology			3:3:0
	Sociology as a field of knowledge	. Basic terms, cond	cepts, theories of sociolog	y applied to an explanation of human
	behavior, personality, groups and	society.		

132 Social Problems 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 Urban Problems 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 Deviant Behavior 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	Marriage and the Family	3:3:0
	Characteristics of and problems within courtship, marriage and family in American society.	
234	Social Gerontology A general survey of the social phenomenon of aging in American society, attention given to the interrelati	3:3:0 onship
	among biological, individual, group and social variables.	
235	Career Development I	3:A:0
226	Special assignments related to work-experience in cooperation with employer under faculty supervision.	2 4 0
236	Career Development II	3:A:0
~~~	Special assignments related to work-experience in cooperation with employer under faculty supervision.	3:3:0
237	Social Problems of the Aged  An in-depth examination of the nature, causes and consequences of the major social problems experienced b	
	Americans.	Oluci
330 -	American Society	3:3:0
330	Description and analysis of structural and functional characteristics of American society and culture.	3.3.0
331	Sexual Interaction	3:3:0
331	An overview of current scientific knowledge concerning human sexuality as a form of interaction between the	
	in the cultural milieu.	
3313	Career Development III	3:A:0
	Special assignments related to work-experience in cooperation with employer under faculty supervision.	
3314	Career Development IV	3:A:0
	Special assignments related to work-experience in cooperation with employer under faculty supervision.	
332	Social Psychology	3:3:0
	Social and cultural influences upon individual behavior and personality; interpersonal and intergroup relation	ns and
	*collective behavior.	
333	Urban Sociology	3:3:0
	Social and ecological processes in the urbanization movement; characteristics of urban society and culture.	
334	Industrial Sociology	3:3:0
	The social structure of industry and of the trade union interrelationships of industry, union and society; pe	rsonal,
225	social and cultural factors in industrial organization and operation.	
335	The Family	3:3:0
226	Structural and functional characteristics of the family as a basic institution.	
336	Race and Ethnic Relations	3:3:0
	Racial and ethnic minority groups within the society; causes, distinctions and changes in the relationship be	tween
338	minority and dominant groups.  Criminology	3:3:0
330	Extent of and explanation for crime in American society; agencies dealing with crime and criminal; progra	
	control and prevention of crime and delinquency.	110 101
339	Juvenile Delinquency	3:3:0
	The nature, incidence and explanations for juvenile delinquency in American society; agencies and progra	ms for
	prevention and control of juvenile delinquency.	
430	Seminar in Sociology	3:3:0
	Basic concepts and general principles of sociology as applied to the study of selected topics. The course r	nay be
	repeated for credit when the designated topics are varied.	
4301	Directed Studies in Sociology	3:A:0
	Individual study with an instructor in an area of mutual interest. May be repeated for credit when topic varie	
431	Population Problems	3:3:0
/244	The growth and composition of population with emphasis on social, economic and political problems.	
4311	Medical Sociology	3:3:0
4312	A study of social organization in the medical field with emphasis on the social interaction between persons inv <b>Advanced Deviant Behavior</b>	
4312	In-depth study of behavior classified as deviation from the social norms.	3:3:0
432	Sociology of Education	3:3:0
-5-	A study of the multicultural influences on the school system and the democratic society. Included will be an a	
	of educational problems in the multicultural society of Texas.	laryono
433	Adult Development and Aging	3:3:0
	An in-depth analysis of the social and psychological processes associated with the passage of individuals throu	
	age structure of American society.	g c
4331	Seminar in Gerontology	3:3:0
	Pre-professional seminar examining current theories, research, issues and career opportunities in the field of	
434	Social Change and Futurology	3:3:0
	Analysis of the nature, sources, and effects of contemporary social changes with emphasis given to future ty	pes of
	social organization and functioning. Science and technology as stimulators of change.	
435	Sociology of Religion	3:3:0
	Religion as a social institution in contemporary America; development of religious systems; cultural, soci	al and
	individual hypotion of religion	

436	Social Movements 3:3:0
-50	Historical, structural and tactical consideration in the development of major systems of belief and practice within
	society; political movements in American society.
437	Public Opinion 3:3:0
-5,	Factors and processes in formation and change of public opinion, influence of the mass media on communication;
	analysis and evaluation of propaganda.
438	Research Methods 3:3:0
-50	Study of the logic, design, techniques and problems involved in social scientific research.
439	Social Theory 3:3:0
-57	A survey of major sociological theorists and theories.
Soc	ial Work Courses (Swk)
131	Introduction to Social Work 3:3:0
100	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	Survey of the Social Welfare Institution 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	Social Work Practice I 3:3:0
	Course designed to help students acquire basic skills for social work practice: basic helping skills; engagement skills;
222	observation skills; and communication skills.
332	Human Behavior in the Social Environment 3:3:0  Life cycle approach to the study of growth and development as impacted upon by the social environment.
222	· · · · · · · · · · · · · · · · · · ·
333	
	Theories, concepts, principles and modalities generic to social work practice. Emphasis on the use of interventive
226	skills with client systems.  Social Policy and Administration 3:3:0
334	Social Policy and Administration 3:3:0  Anlaysis of social policies as related to selected social problems at all governmental levels. Emphasis placed on
225	integrating policy into the administering of human service programs.  Social Work Practice With Target Groups 3:3:0
335	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 A	20, 430 Special Topics in Social Work 1-3:A:0
410, 4	
	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.
422	Prerequisite: Consent of the instructor.  Seminar 3:3:0
432	
6221	Current topics in social work. May be repeated for credit when the topic is varied.  Field Experience 1 3:A:0
4321	Field Experience 1 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
1341	Continuation of Swk 4321. Placement to be arranged.
,	Prerequisite: Consent of the instructor.
	· · · · · · · · · · · · · · · · · · ·
Crit	minal 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.  Control of Crime 3:3:0
1302	COMMON OF COMMON
	Introduction to contemporary crime control efforts. Police, courts, corrections, special programs. Survey of crime
1202	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.
2 <del>34</del>	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.
226	Prerequisite: CJ 332.  Narcotics and Vice 3:3:0
336	Narcotics and Vice 3:3:0  Narcotics, alcohol abuse, sex and gambling offenses and offenders; legal, philosophical and sociological aspects of
	the role of the criminal justice system in controlling these offenses; methods of diversion.
337	Organized Crime 3:3:0
337	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
133	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
4210	problems. History of punishment and theories of corrections.
4310	Ethical Issues in Criminal Justice 3:3:0
4212	An examination of selected ethical issues and problems confronting criminal justice professionals.
4312	Contemporary Issues in Criminal Justice 3:3:0
4313	Current topics in criminal justice. May be repeated for credit when the topic is varied.  Community Crime Prevention 3:3:0
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
4314	Introduction to basic principles of legal research and brief writing. Use of a law library; introduction to oral advocacy;
	legal logic.
	icam icano.
Ant	hropology 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 precontact 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: Master Sergeant 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 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 f & 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 f& 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)**

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.

Prerequisite: 121 or permission of the PMS.

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

Advanced mountaineering techniques, physical fitness, exercise leadership, orienteering skills and first aid (CPR).

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** 

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. Activit 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, selfdiscipline, self-confidence, and resourcesfulness. 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.

	openio an interested students.
	urses in Bible and Religious Education
шы	ructors: Bash, Chatham, Eckstein, Wray
	These courses are provided by church related sources. If credit is desired, the fees are able to the University. A maximum of 12 semester hours is allowed with the approval of student's academic dean.
Bib	ole Courses (Bib)
131	Survey of the Old Testament 3:3:0
	A critical study of the Old Testament and its relevance to Western culture.
132	Survey of the New Testament 3:3:0
	A critical study of the New Testament, its historical context and the beginnings of the Christian Church.
133	New Testament: Gospels 3:3:0
	A critical study of the Gospels, the person and work of Jesus of Nazareth.
134	New Testament: Paul 3:3:0
	A study of the life and ministry of St. Paul and the major portion of the Pauline letters.
135	Introduction to Christian Thought 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	Current Issues in Religion 1:1:0
	An interpretation of religious events through the reading of current religious and secular periodicals.
231	Church History 3:3:0
	The history of the Christian Church, including the General Councils, the missionary movements, the Reformation and the transition to the modern scene

and the transition to the modern scene.

#### 232 Christian Ethics

3:3:0

The relation of the Christian Faith to daily living, with particular emphasis on vocation, courtship and marriage, the person and society.

#### 233 Old Testament: Prophets

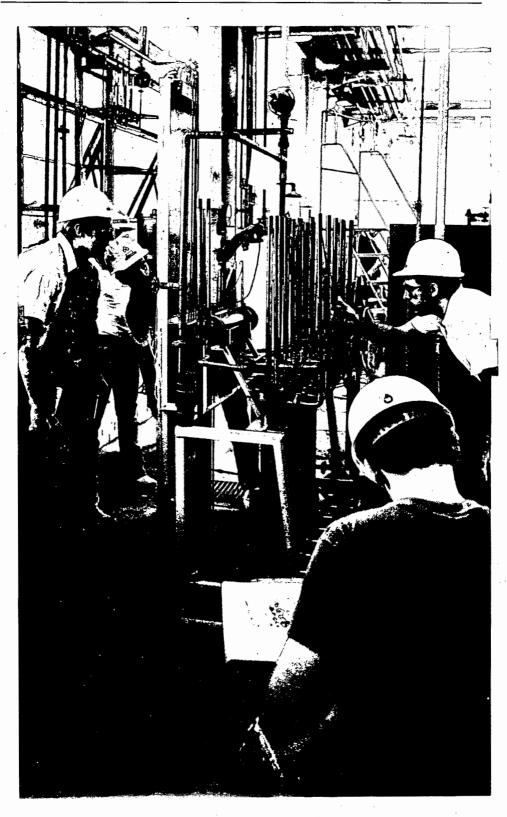
3:3:0

A study of the major and minor prophets and the role they played in the development of the religion of Israel.

314	Thematic Approach to Religion	1:1
	A critical study of significant ideas or writings in religion.	
324	Thematic Approach to Religion	2:2
	A critical study of significant ideas or writings in religion.	
331	Philosophy of Religion	3:3
	Planned to describe the points of view in religious philosophy which are of vigorous contemporary influence analyze the basic issues between them, including a study of religion as such, its historical development and emphasis on major contemporary religions.	
332	Major Themes of the Bible	3:3:
	Planned to present Biblical concepts of God, man, history, covenant, prophecy, vocation and related ideas.	
333	Comparative Religion	3:3
	A comparative study of the world's major religions, e.g. Judaism, Christianity, Islam, Hinduism, Buddaism.	
334	Thematic Approach to Religion	3:3:
	A critical study of significant ideas or writings in religion.	

3:3:0

74 Lamar University



# **Department of Biology**

Department Head: Michael E. Warren

101 Hayes Building

Professors: Harrel, McGraw, Ramsey, Smith, Turco, Waddell, Warren

Associate Professors: Fitzgerald, Malnassy, Runnels

Assistant Professors: Bechler, Bryan, Hunt

Adjunct Professor: Johnson

## **Recommended Program of Study**

## **Bachelor of Science—Biology Major**

First Year	Second Year
Eng 1313	Eng Literature
Eng Composition3	Chm 341, 342 Organic
Bio 141, 142 General8	Phy 141, 142 General8
Chm 141, 142 General8	**Bio selected from core
Mth 1335 Precalculus or 236	PE/MLb 124***/ROTC 2 sem 2 or 4
Mth 236 Calculus or 237	
Electives	
PE/MLb 124***/ROTC 2 sem 2 or 4	
2/26	
34-36	34-36
Third Year	Fourth Year
Gov 231-232	Bio 416, 417 Bio Lit
Electives	Bio Electives
Mth 234 Statistics	Electives
**Bio selected from core	Soph Am His
Bio Elective	
Chem 441* or Bio 4302 3 or 4	
26.27	2/
36-37	34

^{*}Chm 241 required

Second Year

## *Bachelor of Science in Psychology

## *Bachelor of Science in Biology

	0000000
Bio 141, 142 General	Chm 341, 342 Organic8
Chm 141, 142 General	Bio 240 Comparative Anatomy
Eng Composition	Bio 342 Embryology
Mth 1355 Precalculus	Psy 242 Methods
Psy 131 Intro to Psy	Eng Soph Literature6
Psy 241 Intro to Stat Meth	Mth 236 Calculus I
PE Activity	Mth 236 Calculus I
	Psy Electives
2/2/	
34-36	35
Summer	Third Year
Soph Am Gov	Soph Am His
PE Activity	Phy 141, 142 General8
Electives	Bio 347 Genetics
	Psy 344 Adv Physiology
	Psy 343 Experimental Psy
	Psv Electives Adv 6 hrs
14-16	Psy Electives Adv 6 hrs

^{**}The following courses must be included in the Biology Core: Bio 245 or 243, Microbiology; Bio 346, Invertbrate Zoology; Bio 345, Botany; Bio 240 or 444, Comparative Anatomy or Vertbrate 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.

Fourth Year							
3io 444 Vert Natural History							
3io 416 Bio Literature							
3io 446 Ecology							
3io 447 Cellular							
Bio Electives							
Psy Elective Adv							
Electives							
37							

^{*}Both degrees must be awarded simultaneously.

# †Bachelor of Science in Biology †Bachelor of Science in Chemistry

First Year	Second Year
Bio 141-142 General	Chm 341-342 Organic
Chm 141-142 General	Mth 237 Calculus
Eng Composition6	Eng Literature6
Mth 1335 Precalculus	Phy 141-142 General
Mth 236 Calculus	Chm 241 Quantitative
PE/MLb 124**/ROTC	Gov 231-232
Electives	PE/MLb 124**/ROTC
36-38	37-39
Summer	1
Phy 335 Modern	₹
Bio 243 Microbiology4	
Bio Elective4	
Electives	
14	
Third Year	Fourth Year
Bio selected from core***16	Bio 416 or 417 Bio Lit
Soph Am His4	Bio Electives
Chem 413 Physical Lab	Chm 441 Biochem
Chm 333 Inorganic	Chm Electives* min
Chm 431 Physical	Electives
Electives	
33	32

## **Bachelor of Science—Medical Technology**

First Year	Second Year
Eng 1313	Eng Literature6
Eng Composition3	Bio 243-244 Microbiology
Bio 141, 142 General8	Chm 341-342 Organic
Chm 141, 142 General	Phy 141-142 General
Mth 1334 Algebra3	PE/MLb 124*/ROTC
Mth 1335 Precalculus3	
Electives	
PE/MLb 124***/ROTC 2 sem 2 or 4	
34-36	32-34
Third Year	
Bio 344 Adv Physiology4	
Bio 340 Diagnostic Microbiology	
Chm 241 Quantitative	
Soph Am His6	
Bio 441 Parasitology	
**Electives8	
Gov 231-232	
<del></del>	

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

36

[†]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 414, 426, 432, 435, 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.

[&]quot;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.

^{**}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	Second Year
Eng 1313	Physics 141-142
Eng Composition	Sociology 131
Bio 141-142 General	Speech
Chm 141-142 General	Bio 344 Adv Physiology
<ul> <li>Mth 1335 Precalc(or Mth 1312-Trig)</li></ul>	Psy 241 Statistics
Psy 131 Introduction	His 231-232
Electives*	Gov 231-232
34	34
Third Year	
Bio 240 Comparative	;
Eng Literature3	4
Psy 234 Child	• • • •
Psy 337 Adjustment	•
Psy 432 Abnormal	4
Electives minimum*	
. 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	Second Year
Eng 1313	Eng Lit
Eng Composition	His 231-232 United States
Bio 141-142 General	Gov 231-232
Chm 141 General4	Soc 131
Psy 131	Electives
Mth or Psychology Statistics	Bio 143 Anatomy & Physiology
Psychology or Sociology	Speech
(Social Psychology recommended)	
Electives	
	, <u>, , , , , , , , , , , , , , , , , , </u>
31	. 31
	Plue two years clinical affiliation

## 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 program requirements are under the control of the schools offering the clinical programs. For detailed course requirements contact the faculty advisor in Haves 101.

# Bachelor of Science—Oceanographic Technology

**Marine Biology Option** 

First Year		Second Year
Bio 141-142 General	8	Geo 141-142 Phys, His8
Chm 141-142 General		Phy 141-142 General
Mth 1335 Pre-Calculus	3	Mth 237 Calc II
Mth 236 Calculus I	3	His Soph Am His3
Eng Composition	6	Statistics
PE Activity	2-4	Eng Literature6
		PE 227-228 Swim, Life
	30-32	35
Third Year		Fourth Year
Bio 349 General Ocean	4	Geo 4370 Meteorology
Bio 346 Invert Zoology		Bio 418 Ocean Seminar1
Bio 444 Vert Nat His		Geo 430 Phys Ocean
Bio 445 Marine Bio		Bio 417 Bio Lit
Bio 449 Protistology		Bio 243 Microbio
Chm 341-342 Organic		Bio 446 Ecology
His Soph Am His	: 3	Bio 443 Limnology,
Elective	3	Gov 231
,		Gov 2323
		EE 438 Instrumentation
		Elective
	34	32
Third or Fourth Summer		
Rio 361 Field Course	6	•

Minimum Total 137

# Bachelor of Science—Oceanographic Technology

Marine Geology Option

mainic acology option	•
First Year	Second Year
Geo 141-142 Phys, Hist	Geo 241-242 Min, Opt Min
Chm 141-142 General	Bio 141-142 General
Mth 1335 Pre-Calculus3	Mth 237 Calculus II
Mth 236 Calculus I	Egr 1121 Computation
Eng Composition	Egr 1221 Computation
PE Activity	Egr 114 Graphics
,	Eng Literature6
	PE 227-228 Swim, Life
30-32	
V + V =	33
Third Year	Fourth Year
Geo 345 Petrology	Geo 430 Phys Ocean
Geo 4370 Meteorology	Geo 433 Geophysics :
Geo 341 Stat, Data Proc4	*Geo Sr Geology Course
Geo 342 Structural Geo4	Bio 418 Ocean Seminar
Bio 349 General Ocean	Bio 445 Marine Bio
Geo 419 Seminar	Gov 2313
Phy 141-142 General	Gov 2323
CE 339 Soils Sci	His Soph Am His
or	Electives
Geo 346 Sed Stat	
Bio 443 Limnology	•
35-36	32
Third or Fourth Summer	
Bio 361 Field Course6	

Minimum Total 136

^{*}A Senior course selected from the sequence Geo 431 thru Geo 438.

# Bachelor of Science—Oceanographic Technology

OCE	an Engineering Option	
	First Year	Second Year
	11-142 Phys, Hist	Phy 140,222,24110
	41-142 General	Mth 241 Analysis III
	8-149 Anal I & II	Egr 1121 Computation
	omposition6	Egr 1221 Computation
PE ACTI	vity2-4	Egr 114 Graphics       .1         Egr 230 Statics       .3
		CE 211 Measurements
		CE 212 Rt Surveying.
		ME 231 Dynamics
		Eng Literature6
	•	PE 227-228 Swim, Life
	32-34	36
	Third Year	Fourth Year
CE 331	Environ Sci	Geo 4370 Meterology
	Soils Sci	Bio 418 Ocean Seminar
	Egr Economics	Geo 430 Physical Ocean
	9 General Ocean	Geo 433 Geophysics
	Mech of Solids	EE 438 Instrumentation
_	3 Circuits & Flds	CE 413 Photogrammetry
Egr 23	4 Thermodynamics	CE 213 Exp Stress Anal1
Geo 34	2 Struc Geo	ChE 3311 Momentum Trans3
His So	ph Am His6	CS 439 Comp Appl
	•	Gov 231
	•	Gov 2323
	<i>**</i>	Elective
	32	· 33
	Third or Fourth Summer	
Bio 36	1 Field Course6	·
	<del></del>	
Minim	um Total 139	
Bio	logy Courses (Bio)	
		(22
1400	Introductory Biology	4:3:2
	·	non-science majors, includes function and problems of the
	human circulation, respiration, digestion, reproductiv	
1401	Introductory Biology	4:3:2
		requisite. Includes human heredity and a consideration of the
		life and history as food, medicine, as well as their aesthetic
	value.	
141	General Biology	4:3:2
	A survey of organisms, molecules, cells, tissues, photo	synthesis, genetics and evolution.
142	General Biology	4:3:2
	Structure and function, development, reproduction as	nd ecology.
143	Human Anatomy and Physiology	4:3:2
	Structure and function of cells, tissues, muscle, skelets	al and nervous system.
144	Human Anatomy and Physiology	4:3:2
	Structure and function of the circulatory, digestive, ex	cretory and reproductive systems.
	Prerequisite: Bio 143.	order, and reproductive systems.
240	Comparative Anatomy of the Vertebrates	4:3:4
240		
	Comparative anatomy presented from systemic viewp	onii. Two 2-nour raos per week.
-/-	Prerequisite: Bio 141-142.	
243	Microbiology	4:3:3
243 .	<b>Microbiology</b> Classification, morphology, reproduction and physiol	
	Microbiology Classification, morphology, reproduction and physiol Prerequisite: Bio 141-142.	ogy of microorganisms.
243 244	Microbiology Classification, morphology, reproduction and physiol Prerequisite: Bio 141-142. Disease and Immunity	ogy of microorganisms. 4:3:3
	Microbiology Classification, morphology, reproduction and physiol Prerequisite: Bio 141-142.	ogy of microorganisms. 4:3:3
	Microbiology Classification, morphology, reproduction and physiol Prerequisite: Bio 141-142. Disease and Immunity	ogy of microorganisms. 4:3:3
	Microbiology Classification, morphology, reproduction and physiol Prerequisite: Bio 141-142. Disease and Immunity Antigen-antibody responses and life cycles of disease-	ogy of microorganisms. 4:3:3

330	Applied Anatomy and Kinesiology 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.
	Prerequisite: Bio 141-142.
332	Anatomy and Physiology of Speech and Hearing 3:3:0
	Human structure, function, respiration and hearing, for majors in speech and hearing pathology. Does not count
	toward biology major.
220	Prerequisite: Bio 141-142.
339	Biology and Psychology of Sexuality  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
740	339 and Psy 339.
340	Diagnostic Microbiology 4:2:6
	Public health diagnostic procedures, epidemiology, control and treatment of human bacterial diseases.
261	Prerequisite: Bio 243-244; Chm 342 or concurrent enrollment.
341	Histology 4:3:3
	Study of normal tissues of vertebrates including human tissue.
262	Prerequisite: Bio 141-142 and 240 or 243-244.
342	Embryology 4:3:3
	Comparative study of meiosis, fertilization, cleavage and early embryology as it relates to human development of
	vertebrates.
242	Prerequisite: Bio 141-142, 240.
343	Introduction to Medical Technology 4:3:3
	Procedures used in clinical laboratories; practice in hematology, serology and urinalysis.
344	Prerequisite: Bio 141-142, 243-244.
344	Advanced Physiology 43:3
,	General physiology, muscle-nerve relations, digestive, circulatory, respiratory, excretory, nervous and endocrine
	systems.
345	Prerequisite: Bio 141-142. Recommended: Chm 341-342.  General Botany 4:3:3
343	Introduction to plant structure and functions with emphasis on the seed plants.
	· · · · · · · · · · · · · · · · · · ·
246	Prerequisite: Bio 141-142.  Invertebrate Zoology 4:3:3
346	
	Classification, natural history, phylogenetic relationships and economic importance of the invertebrate phyla.
347	Prerequisite: Bio 141-142.  Genetics 4:3:3
<b>3'1</b> /	
	General principles of heredity, including human inheritance.
240	Prerequisite: Bio 141-142.  Epidemiology 4:3:3
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.  Prerequisite: Microbiology, statistics recommended.
349	General Oceanography 3:3:3
347	Principles of oceanography. Geological, chemical, physical and biological environments of the ocean.
	Prerequisite: Geo 141, Chm 141.
361	Field Course in Estuarine and Coastal Oceanography 6:5:40
<i>J</i> 01	Near shore processes. The application of sampling devices. Laboratory analysis of samples. Small boat handling.
	Duration: six weeks.
	Prerequisite: Bio 349, PE 228.
4101	4201,4301, 4401 Special Topics in Biology 1-4:A:0
4101,	
	Physiological, anatomical, taxonomic and ecological biology. Laboratory and/or library work and conferences with a
	faculty member. May be repeated for credit when the area of study differs.
416	Classical Biological Literature 1:1:0
	A survey of major written works in biology.
	Prerequisite: Senior standing in biology.
417	Current Biological Literature 1:1:0
	A survey of modern biological works published in recent journals.
	Prerequisite: Senior standing in biology.
418	Oceangraphic Technology Seminar 1:1:0
	Reports on current literature in oceanographic for Oceanographic Technology majors

Prerequisite: Bio 349.

Individual investigation of a problem in biology. Formal report of research to be approved by two faculty members.  Prerequisite. Permission of instructor.  23.3:0 Basic processes in physiology, metabolism, transport, energetics, molecular and cellular mechanisms.  Prerequisite. Junior standing, credit for organic chemistry.  4303 Principles of Electron Microscopy Principles of operation, adjustment and elementary maintenance of the electron microscopy. Preparation of specimens, sectioning and grid preparation.  4304 Electron Microscope Techniques Practical experience in application of electron microscopy procedures from living tissue to finished photographic plate. Prerequisite. Biol 4303 and consent of instructor.  Supplementary lab fee.  440 Ornithology Assular Plants The classification of vascular Plants The classification of vascular plants, family characteristics, specific identification of the local flora and dominant plants of floristically different areas of Texas.  441 Parasitology Assudy of the morphology, life history and host-parasite relationships of parasites of man and other vertebrates.  Prerequisite Bio 141-142.  442 Entomology Physiology, morphology, life history, collection, classification and control of insects. Prerequisite Bio 141-142.  443 Limnology Fauna, flora, ecology and productivity of fresh water. Prerequisite Bio 141-142.  444 Vertebrate Natural History Collection, identification and natural history of area fish, amphibians, reptiles, birds and mammals. Prerequisite Bio 141-142.  445 Marine Biology Habitas and community relationships of marine plants and animals. Prerequisite Bio 141-142.  446 Ecology Quantitative approach to both field and experimental studies. Interrelationships of organisms and their environment. Prerequisite Bio 141-142.  447 Cellular Biology Florical Assuration of the cell and its organelles. Prerequisite Bio 141-142.  448 Cytological-Histological Technique Principles and techniques of fixation, dehydration embedment, sectioning and the use of selective stain	430	Undergraduate Problems 3:0:6	,
4302 Cellular Physiology Basic processes in physiology, metabolism, transport, energetics, molecular and cellular mechanisms. Prerequisite: Junior standing, credit for organic chemistry.  4303 Principles of Electron Microscopy Preparation.  4304 Electron Microscope Techniques Situation of electron microscopy procedures from living tissue to finished photographic plate.  4305 Practical experience in application of electron microscopy procedures from living tissue to finished photographic plate.  4306 Practical experience in application of electron microscopy procedures from living tissue to finished photographic plate.  4307 Principles of Deration of electron microscopy procedures from living tissue to finished photographic plate.  4308 Practical experience in application of electron microscopy procedures from living tissue to finished photographic plate.  4309 Principles of Deration of Electron Microscopy procedures from living tissue to finished photographic plate.  4300 Principles of Deration of Prespective Procedures from living tissue to finished photographic plate.  4310 Principles of Cartesian of Prespective Procedures from living tissue to finished photographic plate.  4311 Principles of Cartesian of Prespective Pre		Individual investigation of a problem in biology. Formal report of research to be approved by two faculty members.	
Basic processes in physiology, metabolism, transport, energetics, molecular and cellular mechanisms.  Prerequisite: Junior standing, credit for organic chemistry.  4303 Principles of Dectron Microscopy		Prerequisite: Permission of instructor.	
Preveguistie. Bio 141-142.  1305 Principles of Electron Microscopy Principles of Section adjustment and elementary maintenance of the electron microscopy. Preparation of specimens, sectioning and grid preparation.  1304 Electron Microscope Techniques 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.  1406 Ornithology Natural history, taxonomy and ecology of birds.  1417 Taxonomy of Vascular Plants The classification of vascular plants; family characteristics, specific identification of the local flora and dominant plants of floristically different areas of Texas.  1418 Parasitology A study of the morphology, life history and host-parasite relationships of parasites of man and other vertebrates. Prerequisite: Bio 141-142.  142 Entomology Physiology, morphology, life history, collection, classification and control of insects. Prerequisite: Bio 141-142.  143 Limnology Physiology morphology and productivity of fresh water. Prerequisite: Bio 141-142.  144 Vertebrate Natural History Collection, identification and natural history of area fish, amphibians, reptiles, birds and mammals. Prerequisite: Bio 141-142.  144 Marine Biology Physiology Physiology Physiology Physiology Physiology Physiology Physiology Prerequisite: Bio 141-142.  145 Marine Biology Physiology Physiology Prerequisite: Bio 141-142.  146 Ecology Physiology Physiology Physiology Physiology Physiology Physiology Prerequisite: Bio 141-142.  147 Cellular Biology Physiology Ph	4302	Cellular Physiology 3:3:0	
### Principles of Electron Microscopy Principles of operation, adjustment and elementary maintenance of the electron microscopy. Preparation of specimens, sectioning and grid preparation.  ### Practical experience in application of electron microscopy procedures from living tissue to finished photographic plate.  ### Preventiate Bio 4303 and consent of instructor.  ### Supplementary lab fee.  ### Ornithology ### Assays Natural history, taxonomy and ecology of birds.  ### Taxonomy of Vascular Plants ### Parasitology ### Taxonomy of Vascular Plants ### Parasitology ### Taxonomy of Vascular Plants ###		Basic processes in physiology, metabolism, transport, energetics, molecular and cellular mechanisms.	
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Prerequisite: Bio 141-142.  446 Ecology 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 bours credit in biology and consent of instructor.	445	Marine Biology 4:3:3	
446 Ecology Quantitative approach to both field and experimental studies. Interrelationships of organisms and their environment.  Prerequisite: Bio 141-142.  447 Cellular Biology Structure and function of the cell and its organelles.  Prerequisite: Bio 141-142  448 Cytological-Histological Technique 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 Protistology Acido Prerequisite: Bio 141-142.  460 Field Biology 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 bours credit in biology and consent of instructor.		Habitats and community relationships of marine plants and animals.	
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Summers only.			
		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 Associate Professors: Akers, Dorris, Harmon, Mejia, Whittle

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	Second Year
Chm 141, 142 General 8	Chm 241 Quantitative
Bio/Geo 141, 142 General	Chm 333 Inorganic
Mth 148, 149 Calc An Geo I, II 8	Phy 140 Mechanics4
Eng Composition	Phy 241 Heat, Elec, Mag
HPE/MLb**/ROTC	Eng Literature****
•	Electives
•	Mth 241 Calc An Geo III
	HPE/MLb**/ROTC
	- 22.05
32-34.	33-35
Third Year	Fourth Year
Chm 341, 342 Organic8	Chm 444 Organic Qual
Chm 431, 432 Physical6	Chm 446 Instrumental
Chm 413, 414 Physical Lab	Chm 411 Chemical Lit
Phy 222 Vibr, Sound, Light	Chm 412 Senior Seminar
Phy 212 Lab, Vibr and Waves1	Chm 436 Inorganic
-CS 131, 132 Intro	Chm Electives***
His 231, 232 Amer. His	CS 439 Problem Solving
	Gov 231, 232 Amer Gov
	Electives (outside of major)6
31	34

Minimum 126 semester hours + HPE/MLb/ROTC

# Bachelor of Science—Chemistry (Biochemistry Option)*

First Year	Second Year
Chm 141, 142 General8	Chm 241 Quantitative
Bio 141, 142 General8	Chm 333 Inorganic
Mth 236, 237 Calculus I, II	Bio 243, 244 Microbio8
Eng Composition6	Gov 231, 232 Amer Gov
HPE/MLb**/ROTC	Phy 141, 142
	or
	, Phy 140, 241
	Eng Literature
•	HPE/MLb**/ROTC
30-32	34-36

^{*}American Chemical Society approved degree plan.

**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.

Third Year	Fourth Year
Chm 341, 342 Organic8	Chm 441, 442 Biochem
Chm 431, 432 Physical	Chm 446 Instrumental4
Chm 413, 414 Physical Lab	Chm 436 Inorganic
Bio 341 Histology4	Chm 412 Sr. Seminar1
Bio 347 Genetics or	Eng Literature
Phy 335	or ·
or	. Eng 4335 Report Writing3
Phy 222, 212	Bio/Chm Electives***7
His 231, 232 Amer. His	Electives
Chm/Bio Electives	
22.22	
32-33	32
Minimum 124 hours + HPF/MLb ROTC	

# **Bachelor of Arts—Chemistry Major**

First Year	Second Year
Chm 141, 142 General 8	Chm 241 Quantitative
Bio/Geo 141, 142 General	Chm 333 Inorganic
Mth 236, 237 Calculus I, II	Phy 140 Mech
Eng Composition	Phy 241 Heat, Elec, Mag
HPE/MLb*/ROTC2-4	Fre 131, 132 Elementary
	Soph Am His
•	Eng Literature6
	HPE/MLb*/ROTC2-4
30-32	35-37
Third Year	Fourth Year
Chm 341, 342 Organic	Chm 431, 432 Physical
Phy 222, 212	Chm 413, 414 Physical Lab
Fre 231, 232 Reading	Chm 411 Literature1
Gov 231, 232 Amer Gov	Chm 412 Seminar
CS 133 Fortran	Minor/Electives
Minor/Electives	
22	
32	. 30

Minimum 123 + PE/MLb/ROTC

# †Bachelor of Science in Biology

# **†Bachelor of Science in Chemistry**

	<b>y</b>
First Year	Second Year
Bio 141-142 General       8         Chm 141-142 General       8         Eng Composition       6	Chm 341-342 Organic       .8         Mth 237 Calculus       .3         Eng Literature       .6
Mth 1335 Precalculus       3         Mth 236 Calculus       3         PE/MLb 124**/ROTC       2-4         Electives       6	Phy 141-142 General       .8         Chm 241 Quantitative       .4         Gov 231-232       .6         PE/MLb 124**/ROTC       .2-4
36-38	37-39
Summer	
Phy 335 Modern	

^{*}American Chemical Society approved degree plan.

**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.

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

Third Year	Fourth Year
Bio 240 Comparative4	Bio 416 or 417 Bio Lit
Bio 344 Adv Physiology	Bio 447 Cellular
Bio 342 Histology4	Bio 347 Genetics
Bio 343 Embryology	Chm 441 Biochem
Soph Am His	Chm Electives* min
Chm 413,414 Physical Lab2	Electives
Chm 333 Inorganic	
Chm 431, 432 Physical6	•
Electives	
36	32

†Both degrees must be awarded simultaneously.

### Bachelor of Science—Environmental Science

Interdisciplinary program in Chemistry, Biology and Civil Engineering.

First Year	Second Year
Bio 141, 142 General8	Bio 243, 244 Microbio8
Chm 141, 142 General8	Chm 241 Quantitative
Eng Composition	Chm 334 Air Anal
Mth 1335 Precalculus3	Eng Literature6
Mth 236 Calculus I	Mth 237 Calculus II
Elective	Phy 141, 142 General8
HPE/MLb*/ROTC	HPE/MLb*/ROTC2-4
33-35	34-36
Third Year	Fourth Year
Bio 446 Ecology	Bio 443 Limnology
Chm 341, 342 Organic8	Chm 410 Sem Envi Sci
Chm 434 Air Pollu Surv3	Chm 438 Radiochem
CE 331 Envir Sci	Chm Electives**
Eng 4335 Report Writing3	His 231, 232 Amer His
HED 434 Hlth/Human Eco	Gov 232 Amer Gov II
HED 437 Hlth/Epid	Bio Electives
Chm 333 Inorganic	•,
Gov 231 Amer Gov I	
33	31-33

Minimum 127 semester hours + HPE/MLb/ROTC

## **Cooperative Education Program**

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

Ch	emistry Courses (Chm)	
130	Introductory Environmental Science	3:3:0
	Fundamental concepts of environmental systems as related to urban affairs and man's environment. Air, w	ater 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 m	anipula-
	tions used in chemistry. May not be substituted for required chemistry courses in any degree program.	
141	General	4:3:3
	General practices, problems, fundamental laws and theories.	
	Prerequisite: High school chemistry or permission of department head.	
142	General	4:3:3

A continuation of Chm 141. Properties of the elements. Elementary qualitative analysis and theories of solutions and equilibrium.

Prerequisite: Chm 141.

^{*}Chm electives to be selected from Chm 430, 435, 438, 442, 444, 446. The degree will be ASC accredited if Chm 432 and 414, Chm 446 or Chm 426, and Chm 444 or 435 are elected.

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

^{*}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.

Prerequisite: Chm 432.

143	Introductory	4:3:2
0	For nonscience majors. A survey course in elementary inorganic chemistry.	
144	Introductory	4:3:2
	For nonscience majors. Continuation of Chm 143. Nuclear science, elementary organic and physiological c	hemistry.
	Prerequisite: Chm 143 or 141.	
241	Quantitative Analysis	4:3:5
	Theory and practice of analytical chemistry utilizing gravimetric and titrimetric techniques.	
	Prerequisite: Chm 142 with a grade of C or better.	
333	Inorganic	3:3:0
	Generalization involving atomic and nuclear theory; properties of the elements with emphasis on periodic	icity; non-
	aqueous solvents, acids, bases, oxidation-reduction, etc.	
	Prerequisite: Chm 142.	
334	Air Analysis	3:3:3
	Theory and practice of chemistry as required in determination of ambient air quality.	
	Prerequisite: Chm 241, Mth 236.	
341 .	Organic	4:3:4
	Current theories and chemical principles as they relate to the field of structure and reaction of the variou	s types of
	organic compounds.	
	Prerequisite: Chm 142 with grade of C or better.	
342	Organic	4:3:4
	A continuation of Chm 341.	
	Prerequisite: Chm 341.	
410	Seminar in Environmental Science	1:1:0
	Reports and assigned reading.	
	Prerequisite: senior standing in Environmental Science.	
411	Chemical Literature	1:1:0
	Lecture and assigned reading in the chemical literature. Chemical literature search on an advanced level.	
	Prerequisite: 20 semester hours of chemistry.	
412	Senior Seminar	1:1:0
	Reports and assigned reading.	
	Prerequisite: senior standing in chemistry.	
413	Physical Laboratory	1:0:4
	Laboratory applications of modern theory in physical chemistry.	
	Prerequisite: Chm 241, 431 or parallel.	
414	Physical Laboratory	1:0:4
	Continuation of Chm 413.	
	Prerequisite: Chm 241 and Chm 432 or parallel.	220
430	Organic Polymers	3:3:0
	Chemistry of industrial polymerization of organic compounds, petro-chemistry of organic monomer pr	eparation
	and chemical characteristics of organic polymers. Industrial field trip(s).	
421	Prerequisite: Chm 241, 333 and 342.	3:3:0
431	Physical  Modern chemical theory as applied to gases, liquids, solids and solutions.	3.3.0
	Prerequisite: Chm 142, Phy 142 or 241, Mth 241 or 237 or parallel.	
432	Physical	3:3:0
1,52	A continuation of Chm 431.	5.5.0
	Prerequisite: Chm 431 or equilvalent.	
433	Modern Physical	3:3:0
-00	Selected topics in modern physical chemistry.	
	Prerequisite: Chm 432 or parallel.	
434	Air Pollution Surveys	3:3:3
	Chemical, physical, meterological, biological, bacteriological and epidemiological factors as applied to d	•
	the extent of environmental damage from air pollution.	
	Prerequisite: Chm 334 and senior standing.	
435	Chemical Preparations	3:1:6
	Theory and practice of chemical synthesis techniques.	J
	Prerequisite: Chm 241, 333 and 342.	
436	Inorganic	3:3:0
	Study of the quantized atom, valency and the chemical bond, and coordination chemistry with applied	cations to
	biological systems.	

The last of the state of the Department of Geology 87 438 3:2:3 Radiochemistry Basic concepts of nuclear science. Principles and use of radiation measuring devices: Prerequisite: Chm 241, Chm 333, Chm 431. 4:3:4 441 Biochemistry I Structures chemistry and functions of biological compounds. A survey of the detailed structures, chemistry and functions of the various classes of biologically important compounds. Prerequisite: Chm 241 and Chm 342. 442 4:3:4 **Biochemistry II** A detailed survey of metabolic pathways and processes. Prerequisite: Chm 441. **Oualitative Organic Analysis** 4:2:8 A study of systematic methods for the identification of organic compounds and mixtures of organic compounds. Prerequisite: Chm 241 and 342. 446 Instrumental Chemical Analysis 4:3:4 Instrumental techniques of chemistry. Theory and practice in optical, electrometric and chomatographic methods. Prerequisite: Chm 241, 342 or parallel, 431, Mth 149 or 237, Phy 142 or 241. Credit is not given for both Chm 426 and Chm 446. 427,437,447 Introduction to Research Problems are on the undergraduate level and emphasize research techniques. With approval of the department head, these courses may be repeated for credit. Prerequisite: B average in at least 12 semester hours of previous chemistry courses. 4101,4201,4301,4401 Special Topics in Chemistry Topics in under-graduate analytical, inorganic, organic and physical chemistry or biochemistry. Library and/or laboratory work and conferences with a staff member. With permission of the department head, student may repeat the course for credit when the area of study is different. Prerequisite: Approval of instructor and department head. Department of Geology Department Head: William Matthews 214 Geology Building **Professors:** Aronow, Matthews, Pampe Associate Professor: Stevens Assistant Professor: Davis, Rettke, Jordan In any of the following programs a grade of C or better is necessary in a required geology course. Recommended Programs of StudyBachelor of Science— Geology Major First Year Second Year Third Year Fourth Year 

30

Geo 342 Structural Geo ......4 

Minimum Total 130

## **Bachelor of Arts—Geology Major**

First Year	Second Year
Geo 141-142 Phys, Hist	Geo 241-243 Min, Opt. Min
Chm 143 Introductory	Egr 1121;1221 BASIC, FORTRAN
Bio 141 General	Foreign Language 131-132
Mth 1335 Pre-Calculus3	Gov 2313
Phy 137 Astronomy	Gov 232
Eng Composition	Eng Literature6
PE Activity	PE Activity2-4
30-32	31-33
Third Year	Fourth Year
<b>Third Year</b> Geo 341 Stat-Dat Proc	Fourth Year *Geo 3 Sr. Geo Courses
Geo 341 Stat-Dat Proc4	*Geo 3 Sr. Geo Courses
Geo 341 Stat-Dat Proc       .4         Geo 342 Structural Geo       .4	*Geo 3 Sr. Geo Courses
Geo 341 Stat-Dat Proc       .4         Geo 342 Structural Geo       .4         Geo 345 Petrology       .4	*Geo 3 Sr. Geo Courses       .9         Geo 419 Seminar       .1         **Advanced Science       .3-4
Geo 341 Stat-Dat Proc       4         Geo 342 Structural Geo       4         Geo 345 Petrology       4         Geo 419 Seminar       1         Foreign Language 231-232       6	*Geo 3 Sr. Geo Courses       .9         Geo 419 Seminar       .1         **Advanced Science       .3-4         ***Advanced Arts       .6
Geo 341 Stat-Dat Proc       4         Geo 342 Structural Geo       4         Geo 345 Petrology       4         Geo 419 Seminar       1	*Geo 3 Sr. Geo Courses       .9         Geo 419 Seminar       .1         **Advanced Science       .3-4         ***Advanced Arts       .6

Minimum Total 123

# **Bachelor of Science—Energy Resources Management**

rust icar	second tear
Geo 141-142 Phys, Hist	Geo 241-243 Mineralogy, Optical
Chm 141-142 General	Phy 141 General
Mth 1335 Pre-Calculus	Acc 231-232 Principles
Mth 148 Analyt Calculus I	Eco 131-132 Principles
Eng Composition	Eng Literature3
PE Activity	Egr 1121-1221, Basic, Fortran3
	Gov 231
	PE Activity
31	35
Third Year	Fourth Year
Geo 345 Petrology	Geo 438 Fossil Fuels
Geo 342 Structural Geo	Geo 346 Sed-Strat
Geo 437 Econ Min. Deposits	Che 438 Petroleum Egr
BAC 331, 332 Bus. Analy	Mgt 331 Management
HIS 231 American His	BLW 434 Adv. Legal Princ
BLW 331 Bus. Law	BLW 438 Petroleum Law
Eco 335 Intern'l Trade	Gov 232 Intro Am Govt II
Spc 331 or OAS 335	His 232 Am Hist
****Elective6	Eco 4315 Govt & Bus
	****Electives
	2/
Minimum Total 122	. 34

Minimum Total 132

# **Geology Courses (Geo)**

Physical Geology 4:3:2 Earth materials, structures, land forms, mineral resources and the processes which formed them.

^{*}Those planning to specialize in Geophysics should substitute the sequence Phy 140, 241, 242.

^{**}At least 6 semester bours of electives must be other than Geology courses.

^{*}Three Senior courses selected from the sequence Geo 431 thru Geo 438.
**A junior or senior course selected from Bio, Chm, Phy, Mth or Egr.

^{***}Two junior or senior courses selected from Eng, Soc, Gov, His, Phl, Ant, Eco, Spc or Art.
****At least 6 semester bours of electives must be other than Geology courses.

^{****}At least 6 semester hours of electives must be other than Geology courses.

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 22: 141.	0 and Geo
227	•	2.2.0
237	Physical Geography The first demonstrate of level regional and global assessment.	3:3:0
	The fundamental concepts of local, regional and global geography.	
220	Prerequisite: Sophomore standing.	220
238	Cultural Geography	3:3:0
	History and distribution of cultural groups with emphasis upon the interaction between geographic en and human cultures.	vironment
220		220
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 st	ndent may
264	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.	
242	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 requ	ired.
	Prerequisite: Geo 142 or Geo 239.	
339	Environmental Geography	3:3:0
	The environmental significance of man's development of his atmospheric, aquatic and mineral resources.	Field trips
	required.	
	Prerequisite: Geo 141 or 237.	
341	Statistics and Data Processing	4:3:3
	The application of digital computer and statistical techniques to the analysis of earth science data.	
	Prerequisite: Egr 1221.	
342	Structural Geology	4:3:3
	Rock deformation and the resulting structures. Field trip required.	
	Prerequisite: Geo 241, Mth 148.	
345	Petrology	4:3:3
	The classification, properties, and occurence of rocks. Macro and micro techniques for the identification	n of rocks.
	Field trip required.	
	Prerequisite: Geo 243.	
346	Sedimentation-Stratigraphy	4:3:3
	The derivation and deposition of sediments. The environmental interpretation and physical correlation of	f sedimen-
	tary strata. Field trip required.	
	Prerequisite: Geo 345.	
360	Summer Field Course	6:5:40
	Description of stratigraphic sections, preparation of geologic maps and field reports.	
	Prerequisite: Geo 342, 345.	
418	Earth Science Literature	1:1:0
	Reports on current source materials. Not open to geology majors.	
	Prerequisite: 12 hours of Geology.	
419	Seminar	1:1:0
	Written and oral reports on current geological literature. May be repeated for credit.	
	Prerequisite: 20 semester hours of Geology.	
422	X-ray Crystallography	2:0:6
	X-ray techniques to identify crystalline substances. For advanced science and engineering students.	
	Prerequisite: one year of Chemistry or Physics.	
427,4		4:A:0
, -		
	An individual library, laboratory or field project. To receive credit, an acceptable typewritten report is re	quired.

Application of the principles of physics to geologic problems. Use of geophysical techniques in petroleum

exploration.

Prerequisite: Geo 342, Phy 142, Mth 149.

434	Geology of the United States	3:3:0
1,51	A regional study of the geomorphology, structural geology and geologic history of the United States.	0.0.0
	Prerequisite: Geo 342.	
435	Geomorphology	3:3:0
237	The development and classification of land forms. Field trip required.	
	Prerequisite: Geo 342.	
437	Economic Mineral Deposits	3:3:0
	Origin and of occurrence of commercially valuable minerals and rocks. Field trip required.	
	Prerequisite: Geo 345 or 4350.	
438	Fossil Fuels	3:3:0
	Origin and occurrence of coal, oil and gas deposits. Field trip required.	
	Prerequisite: Geo 345 or 4350.	
439	Tectonics of North America	3:3:0
	The development of tectonic theory as evidenced by and applied to the North American continent.	
	Prerequisite: Geo 342, 345.	
442	Stratigraphic Paleontology	4:3:3
	The classification, morphology, and identification of invertebrate fossils. The application of paleont	ology to
	stratigraphic correlation. Field trip required.	C.
	Prerequisite: Geo 346.	
4101,	4201,4301,4401 Special Topics in Earth Science	4:A:0
	Topics in the earth sciences. May be repeated for credit when the area of study is different.	
	Prerequisite: Permission of the instructor.	
4350	Earth Materials	3:3:0
2000	The study of minerals and rocks. Field trip required. A student may not receive credit for both Geo 4350 and	Geo 241-
	243.345.	
	Prerequisite: Geo 141, 237 or 239.	
4370	Meteorology	3:3:0
	The composition and processes of the atmosphere. Weather and climate and their effect on man's activities. I	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 envir	onment.
	Prerequisite: 8 hours of science.	

# **Department of Physics**

Department Head: Joe F. Pizzo

230 Archer Building

**Professors:** Pizzo, Rigney

**Associate Professors:** Landegren, 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:

Salar Charles

Physics (Graduate School) 2. Pre-medical **Environmental Science** 3. Life Science 9. Engineering 4. Oceanography 10. Geology/Geophysics 5. Teaching

### **Recommended Program of Study**

First Year	Second Year
Chm 141-142 General	Option
Eng Composition	Eng Literature
Mth 148-149 Cal & An G I & II	Mth 241 Cal & An G III
Phy 140 Intro	Phy 241-212-222 Intro
Phy 110 Phy Today1	Electives
Electives	PE/MLb*/ROTC 2 sem 2 or 4
PE/MLb*/ROTC 2 sem 2 or 4	•
33-38	32-37
Third Year	Fourth Year
Gov 231-232	Phy 448 Optics
His Soph American6	or .
Mth 331 or 4301 Diff Eq	Phy 346 Elected Measmnts
Phy 335 Modern Phy	or · ·
Phy Electives	Phy 324 Modern Phy Lab
Option	Phy Electives
•	Option
33-36	Electives
	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:**

6.

Chemistry

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 amy be obtained from the department head.

# **Physics Courses (Phy)**

Prerequisite: Phy 241.

FII	ysics courses (Fily)	
110	Physics Today	1:1:0
	A descriptive introduction to recent developments and noteworthy current problems, such as gravitationa	l collapse
111	Astronomy Laboratory	1:0:2
	Measurements with astronomical instruments such as telescopes and spectroscopes. Use of photogra-	aphs from
	astronomical observatories to identify variable stars and classify individual stars according to spectra a	nd magni-
	tudes.	
	Prerequisite: Credit for or registration in Phy 137.	
130	Mathematical Method in Physics	3:0:3
	Graphical analysis, vector operations, trigonometic operations for elementary physics problems; field and	
132	Basics of Photography, Light and Optics	3:2:1
	Light, cameras, lenses, film, filters, intensity, exposure, development, enlargement, color, infrared pho	otography
	Kirlian photography.	
137	Descriptive Astronomy	3:3:0
	A survey of facts and an introduction to important astronomical theories. The solar system, stars, nebula	e and star
- (0	systems.	422
140	Introductory Mechanics	4:3:3
	Emphasis is placed on derivation, units and problem solving.	
	Prerequisite: Credit for or registration in Mth 148.	4:3:2
141	General Physics Mechanics and Heat	
	Designed for majors in the physical or natural sciences. Emphasis is placed upon understanding and app basic physical laws.	ilcation o
	Prerequisite: Mth 1212 or 1335 or high school trigonometry.	
142	General Physics, Sound, Light, Electricity and Magnetism	4:3:2
112	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 stude	nt already
	having acceptable credit for Mth 1341, 148, 236 or equivalent or for Phy 140 or 141 may not receive credit for	or 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 a	icceptable
	credit for Mth 1341, 148, 236 or equivalent or for Phy 142, 241 or 242 may receive credit for neither Phy 14	i3 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:(
	Career related special projects, with detailed written report evaluated by a faculty member in physics.	
225	Prerequisite: Permission of department bead.	
235	Career Development II	3:A:(
	Career related special projects, with detailed written report evaluated by faculty member in physics.	
2/1	Prerequisite: Phy 234.	4.2.2
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
2-12	Emphasis is placed on derivations, units and problem solving	4:3:3

#### 245 4:3:2 **Introductory Acoustics** 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; blackbody 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** 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** Use of vector notation in formulating and applying Newton's laws and the principles of momentum and energy. Dynamics of particles and rigid bodies emphasized. Statics treated briefly. Prerequisite: Phy 140 or 141-142 and credit for or registration in Mtb 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. 3:3:0 339 Thermal Physics 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 Mtb 241. Special Topics in Physics 4101,4201,4301 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. **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. 3:3:0 431 Classical Mechanics 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.

94	Lamar University	
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.

Nuclear Physics

436 Nuclear Physics 3:3:0
Elementary particles; nuclear scattering of particles; reactions and nuclear structure.

Prerequisite: Phy 335.

Prerequisite: Phy 335.

437 Astrophysics

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 Mtb 241.

# **College of Business**

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

John A. Rvan, 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 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:

Curriculum Requirements:

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

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

#### 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 Investments

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

^{*}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 Department of Economics for economics majors. See Department of Administrative Services and Department of Economics in this bulletin.

Com 4383 Print Advertising

Mkt 333 Marketing Promotion

Eleven semester hours of advanced

courses in College of Business.

#### **Industrial Engineering**

#### Concentration III

IE 3301 Survey of Industrial Engineering

IE 333 Engineering Economy

IE 339 Materials Science and Manufacturing Processes

4301 Quality Control

438 Methods Engineering

4316 Industrial and Product Safety

Eleven semester hours of advanced

courses in College of Business.

#### 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

Eleven semester hours of advanced

courses in College of Business.

#### Retail Merchandising

#### Concentration V

Hec 231 Textiles

Hec 331 Advanced Clothing

Construction

Hec 432 Family Clothing

Hec 434 Fashion and Production

Hec 436 Home and Fashion

Merchandising

Mkt 332 Principles of Retailing

Eleven semester hours of advanced

courses in College of Business.

#### 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

Nine semester hours of advanced

courses in College of Business.

#### Management Major (18 semester hours)

Acc 334 Cost Accounting

المركبين المعايلا وإله إذا والمالية بعوامي والما

المنافية المالكان المالية المالية المالية

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 Admi

Psy 335 Motivation

Psy 336 Psy Tests and Measure

BLW 332 Labor Law or

Eco 336 Survey of Labor Ecomonics

Mgt 433 Personnel Accred Review

OAS 431 Office Management

- E. Approved electives to complete a total of 128 semester hours.
- A minimum grade point average of 2.00 in all business and economics subjects.
- III. A minimum grade point average of 2.00 in all work required for degree.
- 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:

- 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 in all work required for the degree.
- IV. A minimum of 122 semester hours exclusive of physical education and band.
- 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, Farrar 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
CS 133 Introduction to Computers	Eng Literature
Eco 131, 132 Principles	Gov 231, 232 American Government
Eng Composition	His Sophomore American History6
Mth 134, 1341 Mathematics for Business Applications &	Soc, Phl, Ant or Psy
Elements of Analysis for Business Applications or	Spc 131 or 331
Mth 236, 237 Calculus I & II	PE Activity (2 semesters)
Laboratory Science	Electives
PE Activity (2 semesters)	32
	. 52
34	
Third Year	Parada Wasa
	Fourth Year
Acc 331, 332 Interm	Acc 430 Auditing
Acc 338, 339 Taxation Accounting	Acc 431 Advanced Accounting
BAC 331, 332 Business Analysis	Acc 334 Cost Accounting
BLW 331 Business Law	Acc 435 Accounting Systems3
Fin 331 Principles of Finance	Eco 339 Economics of the Firm
Mgt 331 Principles of Management	Mgt 332 Production Management
Mkt 331 Principles of Marketing3	Mgt 437 Administrative Policy
Electives	OAS 335 Business Communications
33	Electives (College of Business)6
	30

# **Accounting Courses (Acc)**

### 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

2.2.

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

Job order and process cost approach to the control of manufacturing operation: material; labor; overhead allocation; departmentalization; budgeting; data presentation.

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; standard deduction.

Prerequisite: Acc 232.

Taxation Accounting

220

Provisions of the income tax code as applied to proprietorships, partnerships, estates, trusts and corporations; withholding; inventory; installment sales; reorganizations; filing returns; refunds; social security taxes; estate taxes; gift taxes.

Prerequisite: Acc 338.

430 Auditing

339

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: receivership; corporate mergers and acquisitions; branch operations; consolidated statements.

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

Standard costs, budgeting and control of manufacturing costs, reporting for managerial evaluation. *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 Professors: Johnson

Assistant Professors: Barnes, Burke, Dorrell, Owens, Royce, 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 programming, 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

riist icar	Second rear
Acc/As/Eco/Mgt 130 Business Environment	Acc 231, 232 Principles
and Public Policy3	Eng Literature
CS 133 Introduction to Computers	Gov 231, 232 American Government
Eco 131, 132 Principles	His Sophomore American History
Eng Composition	Soc, Phl, Ant or Psy
Mth 134, 1341 Mathematics For Business Applications &	Spc 131 Public Speaking or 331 Business and
Elements of Analysis for Business Applications or	Professional Speech
Mth 236, 237 Calculus I & II	PE Activity
Laboratory Science	Electives (non-business)
PE Activity	

Third Year	Fourth Year
BAC 331, 332 Business Analysis	Acc 334 Cost Accounting or
BLW 331 Business Law	Acc 338 Tax Accounting
Fin 331 Principles of Finance	Eco 334 Macro Economics or
Mgt 331 Principles of Management	Eco 339 Economics of Firm
Mgt 332 Production Management3	Fin 333 Insurance or
Mkt 331 Principles of Marketing	Fin 332 Financial Analysis
OAS 335 Business Communications	Mgt 333 Personnel Management
Electives (non-business)	Mgt 437 Administrative Policy
Electives (College of Business	Mkt 431 Marketing Management
300 or 400 Level)	Mkt 438 Small Business Ent
3.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	OAS 431 Office Management
•	Electives (College of Business
	300 or 400 Level)5
	J00 01 400 Level)
33	29
Advertising Communication Concentra	ation—Plan II
_	
First Year	Second Year
Acc/AS/Eco/Mgt 130 Business Environment	Acc 231, 232 Principles
and Public Policy	Eng Literature
CS 133 Introduction to Computers	Gov 231, 232 American Government
Eco 131, 132 Principles	His Sophomore American History
Eng Composition	Soc, Phl, Ant or Psy
Mth 134, 1341 Mathematics for Business Applications &	Spc 131 Public Speaking or 331 Business and
Elements of Analysis for Business Applications or	Professional Speech
Mth 236, 237 Calculus I & II	PE Activity
Laboratory Science8	Electives (non-business)
PE Activity	
	32
Third Year	Posset Wasa
Third Year	Fourth Year
BAC 331, 332 Business Analysis	Art 3333 Graphic Design II
BLW 331 Business Law	Art 3353 Fashion Layout and
Art 237 Graphic Design I	Illustration
Fin 331 Principles of Finance	Com 3383 Broadcast Advertising
Mgt 331 Principles of Management	Com 4383 Print Advertising
Mgt 332 Production Management	Eco 334 Macro Economics or
Mkt 331 Principles of Marketing3	Eco 339 Economics of the Firm
OAS 335 Business Communications	Mgt 437 Administrative Policy
Electives (College of Business	Mkt 333 Marketing Promotion
300 or 400 Level)	Elective (non-business)
•	Electives (College of Business
•	300 or 400 Level)6
32	30
· ·	,
Industrial Engineering Concentration-	
First Year	Second Year
Acc/AS/Eco/Mgt 130 Business Environment	Acc 231, 232 Principles
and Public Policy	Eng Literature
CS 133 Introduction to Computers	Gov 231, 232 American Government
Eco 131, 132 Principles	His Sophomore American History6
Eng Composition6	Soc, Phl, Ant or Psy
Mth 134, 1341 Mathematics for Business Applications &	Spc 131 Public Speaking or 331 Business
Elements of Analysis for Business Applications or	and Professional Speech
Mth 236, 237 Calculus I & II	PE Activity
Laboratory Science8	Elective (non-business)
PE Activity	
Third Year	Fourth Year
	Eco 334 Macro Economics or
BAC 331, 332 Business Analysis	
BLW 331 Business Law	Eco 339 Economics of the Firm
Fin 331 Principles of Finance	IE 333 Engineering Economy
IE 3301 Survey of Industrial Engineering	IE 339 Materials Science and Manufacturing Processes 3
Mgt 331 Principles of Management	IE 4301 Quality Control
Mkt 331 Principles of Marketing	IE 438 Methods Engineering
OAS 335 Business Communications	IE 4316 Industrial and Product Safety
Elective (non-business)	Mgt 332 Production Management
Electives (College of Business	Mgt 437 Administrative Policy
300 or 400 Level)5	Electives (College of Business
	300 or 400 Level
32	30

32

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### **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	Second Year
Acc/AS/Eco/Mgt 130 Business Environment	Acc 231, 232 Principles
and Public Policy	CS 133 Introduction to Computers
Eco 131, 132 Principles	Eng Literature
Eng Composition	Gov 231, 232 American Government
Laboratory Science	His Sophomore American History6
Mth 134 & Mth 1341 Mathematics for Business	Spc 131 Public Speaking or 331 Business
Applications and Elements of	and Professional Speech
Analysis for Business Applications or	PE (2 semesters)
Mth 236 & 237 Calculus I & II	Elective
OAS 233 Advanced Typewriting	
PE (2 semesters)	
	32
. 34	
Third Year	Fourth Year
<b>Third Year</b> BAC 331, 332 Business Analysis	Fourth Year Eco 334 Macro Economics or
BAC 331, 332 Business Analysis	Eco 334 Macro Economics or
BAC 331, 332 Business Analysis	Eco 334 Macro Economics or Eco 339 Economics of the Firm
BAC 331, 332 Business Analysis       6         BLW 331 Business Law       3         Fin 331 Principles of Finance       3	Eco 334 Macro Economics or         3           Eco 339 Economics of the Firm         3           Mgt 437 Administrative Policy         3
BAC 331, 332 Business Analysis       6         BLW 331 Business Law.       3         Fin 331 Principles of Finance.       3         Mgt 331 Principles of Management       3	Eco 334 Macro Economics or         3           Eco 339 Economics of the Firm         3           Mgt 437 Administrative Policy         3           OAS 335 Business Communications         3
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	Eco 334 Macro Economics or Eco 339 Economics of the Firm
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	Eco 334 Macro Economics or Eco 339 Economics of the Firm
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	Eco 334 Macro Economics or Eco 339 Economics of the Firm
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	Eco 334 Macro Economics or       3         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
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       3         Or OAS 332 Advanced Dictation and OAS 333         Advanced Transcription       6	Eco 334 Macro Economics or Eco 339 Economics of the Firm
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       3         Or OAS 332 Advanced Dictation and OAS 333         Advanced Transcription       6	Eco 334 Macro Economics or Eco 339 Economics of the Firm

**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	Second Year
CS 133 Comp Prog	Acc 231, 232 Principles
Eco 131, 132 Principles	Eng Literature6
Eng Composition	Gov 231, 232 American Government
Laboratory Science8	His Sophomore American History6
Mth 134 & 1341 Mathematics for Business Applications	Spc 131 Public Speaking or 331 Business & Professional
and Elements of Analysis for Business Applications or	Speech
Mth 236 & 237 Calculus I & II	PE (2 semesters)
OAS 233 Advanced Typewriting	Elective
PE (2 semesters)	
34	· 32

No. 10 (1997)	
Third Year	Fourth Year
BAC 331 Business Analysis	Edu 438 Classroom Management
Edu 331 Foundations	Mgt 332 Production Management
Edu 332 Educational Psychology	Mgt 437 Administrative Policy
Edu 338 Curriculum, Materials and Evaluation 3	OAS 335 Business Communications
Fin 331 Principles of Finance	OAS 336 Word Processing Concepts & Administration.3
Mgt 331 Principles of Management	OAS 338 Secretarial Office Procedures3
Mkt 331 Principles of Marketing	OAS 431 Office Management
OAS 363 Advanced Shorthand & Transcription or OAS Advanced Dictation and OAS 333	Elective
Advanced Transcription	Licette
Elective (Restricted)	•
33	33
•••	· ·
Two-Year Certificate of Completion in	1 Office Administration
First Year	Second Year
Eco 131, 132 Principles	Acc 231, 232 Principles
Eng Composition	BLW 331 Business Law
Mth 134 Mathematics for Business Applications 3 OAS 131 Secretarial Communications	Eng Literature
OAS 134 Office Machines	OAS 336 Word Processing Concepts & Administration.3
OAS 135 Records Management	OAS 337 Electronic Word Processing Systems 3
OAS 233 Advanced Typewriting3	OAS 338 Secretarial Office Procedures4
Spc 131 Public Speaking	OAS 363 Advanced Shorthand & Transcription
PE (Activity)	or OAS Advanced Dictation and OAS 333 Advanced Transcription
	Elective
	33
One-Year Certificates	
	at
Stenographic Ontion	( letical Ontion
Stenographic Option CS 133 Introduction to Computers:	Clerical Option Acc 231 Prin
Stenographic Option CS 133 Introduction to Computers	Acc 231 Prin
CS 133 Introduction to Computers       .3         Eng Composition       .6         OAS 131 Secretarial Communications       .3	Acc 231 Prin       3         CS 133 Introduction to Computers       3         Eco 131 Principles       3
CS 133 Introduction to Computers       3         Eng Composition       .6         OAS 131 Secretarial Communications       .3         OAS 134 Business Machines       .3	Acc 231 Prin       3         CS 133 Introduction to Computers       3         Eco 131 Principles       3         Eng Composition       3
CS 133 Introduction to Computers       3         Eng Composition       6         OAS 131 Secretarial Communications       3         OAS 134 Business Machines       3         OAS 135 Records Management       3	Acc 231 Prin       3         CS 133 Introduction to Computers       3         Eco 131 Principles       3         Eng Composition       3         OAS 131 Secretarial Communications       3
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	Acc 231 Prin       3         CS 133 Introduction to Computers       3         Eco 131 Principles       3         Eng Composition       3         OAS 131 Secretarial Communications       3         OAS 134 Business Machines       3
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	Acc 231 Prin       3         CS 133 Introduction to Computers       3         Eco 131 Principles       3         Eng Composition       3         OAS 131 Secretarial Communications       3         OAS 134 Business Machines       3         OAS 135 Records Management       3
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	Acc 231 Prin       3         CS 133 Introduction to Computers       3         Eco 131 Principles       3         Eng Composition       3         OAS 131 Secretarial Communications       3         OAS 134 Business Machines       3
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	Acc 231 Prin       3         CS 133 Introduction to Computers       3         Eco 131 Principles       3         Eng Composition       3         OAS 131 Secretarial Communications       3         OAS 134 Business Machines       3         OAS 135 Records Management       3         OAS Typewriting (2 courses)       6         PE (Activity)       2
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	Acc 231 Prin       3         CS 133 Introduction to Computers       3         Eco 131 Principles       3         Eng Composition       3         OAS 131 Secretarial Communications       3         OAS 134 Business Machines       3         OAS 135 Records Management       3         OAS Typewriting (2 courses)       6         PE (Activity)       2
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	Acc 231 Prin       3         CS 133 Introduction to Computers       3         Eco 131 Principles       3         Eng Composition       3         OAS 131 Secretarial Communications       3         OAS 134 Business Machines       3         OAS 135 Records Management       3         OAS Typewriting (2 courses)       6         PE (Activity)       2
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     Administrative Services Cours	Acc 231 Prin       3         CS 133 Introduction to Computers       3         Eco 131 Principles       3         Eng Composition       3         OAS 131 Secretarial Communications       3         OAS 134 Business Machines       3         OAS 135 Records Management       3         OAS Typewriting (2 courses)       6         PE (Activity)       2    32
CS 133 Introduction to Computers	Acc 231 Prin
CS 133 Introduction to Computers	Acc 231 Prin
CS 133 Introduction to Computers	Acc 231 Prin
CS 133 Introduction to Computers	Acc 231 Prin
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  Administrative Services Cours 130 Business Environment and Public Policy Survey course emphasizing interaction of busines public policy process and issues with focus on e especially business majors. 411-414 Special Topics in Administrative Service	Acc 231 Prin
CS 133 Introduction to Computers	Acc 231 Prin
CS 133 Introduction to Computers	Acc 231 Prin
CS 133 Introduction to Computers	Acc 231 Prin
CS 133 Introduction to Computers	Acc 231 Prin
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  Administrative Services Cours  130 Business Environment and Public Policy Survey course emphasizing interaction of busines public policy process and issues with focus on e especially business majors.  411-414 Special Topics in Administrative Service Intensive investigation of topics in business analysi or laboratory and conferences with supervising factor prerequisite: Approval of department bead and ins  421-424 Special Topics in Administrative Service Intensive investigation of topics in business analysi or laboratory and conferences with supervising factor prerequisite: Approval of department bead and ins	Acc 231 Prin
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  Administrative Services Cours  130 Business Environment and Public Policy Survey course emphasizing interaction of busines public policy process and issues with focus on e especially business majors.  411-414 Special Topics in Administrative Service Intensive investigation of topics in business analysi or laboratory and conferences with supervising factor prerequisite: Approval of department bead and ins  421-424 Special Topics in Administrative Service Intensive investigation of topics in business analysi or laboratory and conferences with supervising factor prerequisite: Approval of department bead and ins	Acc 231 Prin
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  Administrative Services Cours  130 Business Environment and Public Policy Survey course emphasizing interaction of busines public policy process and issues with focus on e especially business majors.  411-414 Special Topics in Administrative Service Intensive investigation of topics in business analysi or laboratory and conferences with supervising face Prerequisite: Approval of department bead and ins  421-424 Special Topics in Administrative Service Intensive investigation of topics in business analysi or laboratory and conferences with supervising face Prerequisite: Approval of department bead and ins  421-424 Special Topics in Administrative Service Intensive investigation of topics in business analysi or laboratory and conferences with supervising face	Acc 231 Prin
CS 133 Introduction to Computers	Acc 231 Prin

Prerequisite: Approval of department head and instructor.

# **Business Analysis and Computers Courses (BAC)**

#### 30 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-parametic 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 statues; 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 typeuriting or equivalent.

examination.

134	Business Machines 3:3:0
	Practical projects emphasizing knowledge and skills necessary to operate adding and calculating machines, duplicat-
	ing 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 manage-
	ment; 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
233	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. Vocabularly 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 belpful.
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. Compari-
	son 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
505	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.
42-	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;
432	selection of equipment and supplies; office cost control.  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

#### 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

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, Montano, Price

Instructor: Benely

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	Acc 231, 232 Principles
Eng Composition6	Eng Literature3
Mth 134 & 1341 Business & Analysis or	Gov 231, 232 American Government
Mth 236 & 237 Calculus I & II	His Sophomore American History6
Laboratory Science	PE Activity
CS 133 Introduction to Computers	Soc, Phil or Ant
PE Activity	Spc 131 Public Speaking
•	Elective

32

Third Year	Fourth Year
BLW 331 Business Law	Eco 332 Money and Banking
Fin 331 Principles of Finance	Eco 4315 Government and Business
Mkt 331 Principles	Mgt 331 Principles of Management
BAC 331, 332 Business Analysis	Mgt 332 Production Management
Eco 333 Intermediate Theory3	Mgt 437 Administrative Policy
Eco 334 Macro Economics	OAS 335 Business Communications
Eco 339 Economics of the Firm	*Electives
*Electives	
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	Eng Literature
Eng Composition	Foreign Language6
Mth 134 & 1341 Business & Analysis or	Gov 231, 232 American Government
Mth 236 & 237 Calculus I & II	His Sophomore American History6
Laboratory Science	CS 133 Introduction to Computers
PE Activity	PE Activity
Elective3	Elective
31	32
Third Year	Fourth Year
Eco 333 Interm Theory	Eco 332 Money and Banking
Eco 334 Macro Economics	Eco 433 History of Economic Thought
Eco 339 Economics of the Firm	*Electives
BAC 331, 332 Business Analysis	
OAS 335 Business Communications	
Foreign Language	
*Electives	
33	30
55	50

^{*}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; distribute	ion; 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.

33:10 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 bours 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.

3:3:0

Prerequisite: 6 hours of Economics.

333 Intermediate Theory Economic analysis and methodology. Distribution theory; price theory; pure and imperfect competition. Prerequisite: Eco 131.

#### Department of Economics 334 **Macro Economics** 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, stablilization 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 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. Public Finance 3:3:0 337 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. **Economics of the Firm** 339 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; business forecasting; demand analyses; cost analyses; game theory; pricing policies; governmental relations. Prerequisite: Eco 131. 4101, 4201, 4301, 4401, 4501, 4601 Institute in Economics 1-6:1-6:2-4 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 1-6:A:0 4111, 4211, 4311, 4411, 4511, 4611 Problems in Economics 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 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. 3:3:0 431 Monetary Theory 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. 3:3:0 4315 Government and Business Promotion, regulation and restriction of business enterprises by government. Regulatory agencies; antitrust laws; consumerism; transportation; industrial organization and concentration and the eco-legal environment. History of Economic Thought 433 Historical development of economic thought from primitive periods to the present. Classical; historical, socialist; neoclassical; institutional thought.

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

A critical analysis of the basic theories and institutions of economic systems including a comparison of the American

The nature and causes of business cycles. Cyclical theories; business fluctuations; forecasting stabilization; current

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

434

435

436

438

Economic Development

problem areas with policy implications. Prerequisite: 3 hours of Economics.

system with other existing systems. Capitalism; socialism; communism.

government regulations on resource use and economic development.

Comparative Economic Systems

Prerequisite: 3 hours of Economics.

**Economics of World Resources** 

problems. Prerequisite: 6 hours of Economics.

**Business Cycles** 

#### 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, Mtb 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, Godkin, Goetz, Jones, Steiert Management-Finance Coordinator: Bob Wooten

# **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	Eng Composition
and Public Policy	Eco 132 Principles
Eng Composition	CS 133 Introduction to Computers :
Eco 131 Principles	Mth 1341 Elements of Analysis for Business or
Mth 134 Mathematics for Business	Mth 237 Calculus II
Mth 236 Calculus I	Laboratory Science
Laboratory Science4	PE/MLb/ROTC
PE/MLb/ROTC	
17-18	17-18
Second	l Year
First Semester	Second Semester
Eng Literature	Spc 131 or 331
His Sophomore American History3	His Sophomore American History
Acc 231 Principles	Acc 232 Principles
Gov 231 American Government I	Gov 232 American Government II3
Soc or Psy	*Elective (non-business)
PE/MLb/ROTC	PE/MLb/ROTC
16-17	16-17

^{*}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	BAC 332 Business Analysis II
BLW 331 Business Law	Fin 332 Financial Analysis
Eco 332 Money and Banking3	Fin 333 Insurance
Fin 331 Principles of Finance	Fin 431 Investments
Mkt 331 Principles of Marketing	Mgt 331 Principles of Management
*Elective (non-business)3	
18	15
Fourt	n Year
First Semester	Second Semester
Eco 334 Macro Economics or	Fin 433 Financial Institutions
Eco 339 Economics of the Firm	Fin 434 Real Estate
Fin 432 Financial Markets	Mgt 437 Administrative Policy
Mgt 332 Production Management	*Elective (non-business)
OAS 335 Business Communications	Elective (College of Business
Elective (College of Business	300 or 400 Level)
300 or 400 Level)	15
13	· · · · · · · · · · · · · · · · · · ·

^{*}PE Activity not acceptable.

# Bachelor of Business Administration Personnel Administration (Accreditation)

(See Core Program for First and Second Year)

Third	l Year
First Semester	Second Semester
BLW 331 Business Law       3         Mkt 331 Principles of Marketing       3	Fin 331 Principles of Finance
BAC 331 Business Analysis I	BAC 332 Business Analysis II         .3           OAS 335 Business Communications         .3
Eco 339 Economics of the Firm	**Psy 335 Motivation
*Elective (non-business)3	
. 15	15
Fourt	h Year
First Semester	Second Semester
Psy 336 Psy Tests & Measurements	BLW 332 Labor Law or
Mgt 333 Personnel Management	Eco 336 Survey of Labor Economics
Mgt 432 Organizational Behavior and Administration .3	Mgt 437 Administrative Policy
Mgt 332 Production Management	Mgt 433 Personnel Accreditation Review
Elective (College of Business	OAS 431 Office Management
300 or 400 Level)6	Elective (College of Business 300 or 400 Level)
10	10

^{*}PE Activity not acceptable.

### **Bachelor of Business Administration**

# **Management Major**

(See Core Program for First and Second Year)
Third Year

#### First Semester Second Semester Acc 334 Cost Accounting...... Eco 334 Macro Economics or 15 Fourth Year First Semester Second Semester BLW 332 Labor Law or Mkt 435 Quantitative Techniques in Marketing or Elective (College of Business Mgt 432 Organizational Behavior and Administration3 Elective (College of Business Elective (College of Business 300 or 400 Level) . . . . . . . . . 300 or 400 Level) . . . . . . . . . . . . . . . .

^{**}Prerequisite: Psy 131.

^{*}PE Activity not acceptable.

# **Bachelor of Business Administration**

Prerequisite: Mgt 331 and senior standing.

# **Marketing Major**

# (See Core Program for First and Second Year)

-	Third	l Year
	First Semester	Second Semester
BAC 3	31 Business Analysis I	BAC 332 Business Analysis II
	1 Principles of Finance	BLW 331 Business Law
	34 Macro Economics or	Mgt 332 Production Management
	339 Economics of the Firm	Mkt 332 Principles of Retailing
	31 Principles of Management	Mkt 333 Marketing Promotion or Mkt 432 Buyer Behavior
	31 Principles of Marketing	MKI 432 Buyer Benavior
Liect	18	15
		h Year
	First Semester	Second Semester
Mkt 43	31 Marketing Management	Mgt 437 Administrative Policy
4kt 4	35 Quantitative Techniques in Marketing or	Mkt 437 Advanced Marketing Problems
	433 International Marketing	*Elective (non-business)
	36 Marketing Research	Elective (College of Business 300 or 400 Level)
	335 Business Communications	
Jecti	ve (College of Business	Elective (College of Business
300	or 400 Level)	300 or 400 Level)
	. 15	. 15
'E AC	tivity not acceptable.	
	nogoment Courses (MCT)	
	nagement Courses (MGT)	•
30	Business Environment and Public Policy	3:3:0
	A survey course emphasizing interaction of business	s with its external and internal environments. Introduction to
	public policy process and issues with focus on ethica	l and moral considerations.
	Recommended for freshmen who have an interest in	business.
31	Principles of Management	3:3:0
		vioral disciplines and principles of management to promote
	fundamental understanding of operating systems. De	emonstrates the awareness of what managers should do or be
	aware of in the pursuit of good organizational perfor	rmance.
	Prerequisite: Eco 233 or Eco 131 and 132, Acc 232 o	and junior standing
32	Production Management	3:3:0
A survey of the production function and the analytical tools used to solve problems associated with the devel		tools used to solve problems associated with the development
	and operation of a production system. Analytical tools	include: linear programming, critical path scheduling, waiting
	line, statistical quality control and forecasting.	
	Prerequisite: Bac 331 and Mgt 331.	
33	Personnel Management	3:3:0
A behavioral approach to the management of the human resource in business enterprise. The fundamer		iuman resource in business enterprise. The fundamentals of
	human relations and organizational behavior will be u	used to structure an understanding of the managerial problems
	of recruitment, selection, training, promotion and te	rmination of personnel. Supervision of the work force will be
	considered as an examination of theories of motivati	on, communication and leadership.
	Prerequisite: Mgt 331.	
19	Special Problems in Business	1:A:0
	Investigation into special areas in business under the	direction of a faculty member.
29	Special Problems in Business	2:A:0
	Investigation into special areas in business under the	direction of a faculty member.
31	Budgetary Control	3:3:0
		ancial and budgetary controls. Financial planning, budgetary
	construction, evaluation, performance rating, replant	
	Prerequisite: Mgt 331 and Fin 331.	ring.
22	,	3:3:0
32	Organizational Behavior and Administration	havioral issues in both the private and public sectors.
	A survey of organization theory with emphasis on be	naviorar issues in both the private and public sectors.

#### 433 Personnel Accreditation Review 3:3:0 Comprehensive study of seven specialized areas of related subject matter designed to prepare candidates for the professional personnel accreditation examination. Prerequisite: Consent of the instructor. 3:3:0 437 Administrative Policy 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. 3:3:0 438 Management of Computer Systems 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. 3:A:0 Special Problems in Business 439 Investigation into special areas in business under the direction of a faculty member. 4:A:0 449 Special Problems in Business 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. 3:3:0 332 Principles of Retailing A comprehensive introduction to large scale retailing with emphasis on lavout, 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. 3:3:0 334 Professional Salesmanship 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. 3:3:0 431 Marketing Management 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**

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

432

434

3:3:0

An appraisal of investment alternatives in financial markets. Markets, securities, methods of analysis, investment programming.

Prerequisite: Fin 331. 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 sectional 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.

Real Estate

Prerequisite: Fin 331.

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, Physical Education, and Dance, Home Economics, Professional Development and Graduate Studies.

James O. Schnur Ed.D., Dean

James Lane, Ed.D., Director of Certification

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 for Men, Health, Physical Education for Women and Dance, and Home Economics, and Professional Development and Graduate

Providing education for prospective teachers is a tradition of the University. Nonteaching specialties in dance, 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 the primary responsibility of the Department of Professional Development and Graduate Studies with input and advisement from the college's various other departments.

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

Information concerning graduate programs may be obtained in the Graduate 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 Science

# 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 and vocational home economics.

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 semester 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.
- 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.
- Have demonstrated satisfactory performance on the state competency examination of basic skills and be admitted to teacher education.
- 6. Be approved by the director of field experience.
- Have completed six semester hours in education courses at Lamar prior to student teaching.
- Have completed 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 leading to the certificate.
- 2. A minimum of six hours in residence at Lamar in professional education courses.
- A minimum of six hours in residence at Lamar.
  - 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).
- 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 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	nours
English Composition	hours
Eng Literature	
Mth (to include at least one	
course at or above the level of Mth 1334	hours
Science Laboratory (same science)	hours
Gov 231 Intro Am Gov I	hours
Gov 232 Intro Am Gov II	hours
His Sophomore American History	hours
PE Activity (four semesters)	hours

42 hours

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, Anthropölogy, Psychology.

# **Special Certificates and Endorsements**

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

**Athletic Training.** Described in the "Department of Health and Physical Education for Men" section of this bulletin.

**Driver education endorsement.** Described in the "Department of Health and Physical Education for Men" 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.

# Certification for Persons with Bachelor's Degree (or higher) Who

#### Are Not Certified To Teach in Texas

- Information concerning these certification plans is available in the office of the College of Education Director of Certification.
- Persons with degrees from Texas colleges and persons with degrees from out-of-state colleges apply to in the College of Education Director of Certification 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 Director of Certification.

# **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: Charles M. Burke

202 Education Building

Professors: Adams, Burke, Hogue, Johnson, McLaughlin, Self, Sontag

**Associate Professor:** Snyder

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

Instructor:Blanks, Fitzgerald

# **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.

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

Described in prior section.

#### Academic Specialization (36 Hours)

- 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 Elementary Education.
- Work in a combination of subjects (18 semester hours). Geo 237 or Geo 238 Art 3371 B. Elementary Art Education Spc 333 Interpretation of Children's Literature or The 336 Creative DramaticsMPE or WPE 339 Physical Education in Elementary SchoolMEd 131 Elements of Music His 134 History of Texas

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

Edu 331 Foundations in Education

Edu 332 Educational Psychology

Edu 333 Language Arts in the Elementary School

Edu 334 Child Development and Evaluation

Edu 335 Arithmetic in the Elementary School

Edu 339 Reading in the Elementary School

Edu 434 Classroom Management

Edu 437 Science & Social Studies in the Elementary School

Edu 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

Elect Voca

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

First Year	Second Tear
Eng Composition	Eng Literature6
Science Laboratory	His Sophomore American History6
Mth 135, 136 Contemporary Mathematics 6	Gov 231 Introduction to American Government I 3
MEd 131 Elements of Music	Gov 232 Introduction to American Government II 3
His 134 History of Texas	Science
PE Activity	PE 339 Physical Education in the Elementary School . 3
Academic Foundations Electives	PE Activity
Geo 237 or 238 Physical, Cultural Geology3	Area of Specialization
Geo 257 of 256 Filysical, Cultural Geology	Mth 3313 Modern Elementary Geometry
·	Milit 3313 Modern Elementary Geometry
'34	32
Third Year	Fourth Year
Art 3371 Elementary Art Education	Edu 437 Science and Social Studies
Edu 331 Foundations of Education	Edu 465 Student Teaching in the Elementary School . 6
Edu 332 Educational Psychology	Area of Specialization6
Edu 333 Language Aris in the Elementary School 3	Academic Foundations Electives
Edu 334 Child Development and Evaluation 3	Free Electives
	Tree Electives
Edu 335 Arithmetic in the Elementary School 3	
Edu 339 Reading in the Elementary School3	
Edu 434 Classroom Management	
Spc 333 Interpretation of Children's Literature 3	
Area of Specialization9	·
36	. 30
50	· · · · · · · · · · · · · · · · · · ·

# **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	Second Year
Eng Composition	Eng Literature6
Science Laboratory	His Sophomore American History6
Mth 135, 136 Contemporary Mathematics 6	Gov 231 Introduction to American Government I 3
MEd 131 Elements of Music	Gov 232 Introduction to American Government II 3
His 134 History of Texas	Science
PE Activity	PE 339 Physical Education in the Elementary School 3
Academic Foundations Electives	Mth 3313 Modern Elementary Geometry 3
Geo 237 or 238 Physical, Cultural Geology3	Edu 232 Foundations of Reading Instruction 3
, , , , , , , , , , , , , , , , , , , ,	Edu 233 Reading Skills
	PE Activity
. 34	35
Third Year	Fourth Year
Art 3371 Elementary Art Education	Edu 437 Science and Social Studies
Edu 331 Foundations of Education	Edu 465 Student Teaching in the Elementary School 6
Edu 332 Educational Psychology	Edu 431 Diagnostic-Prescriptive Techniques
Edu 333 Language Arts in the Elementary School 3	Edu 439 Reading Practicum
Edu 334 Child Development and Evaluation 3	Academic Foundations Electives
Edu 335 Arithmetic in the Elementary School 3	Free Electives
Edu 339 Reading in the Elementary School 3	
Edu 434 Classroom Management	
Edu 336 Children's Literature3	
Edu 337 Materials and Resources3	
Spc 333 Interpretation of Children's Literature 3	
33	. 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 Elementary or Special Education.

First Year	Second Year
Eng Composition	Eng Literature6
Science-Laboratory8	His Sophomore American History
Mth 135, 136 Contemporary Mathematics	Gov 231 Introduction to American Government I3
MEd 131 Elements of Music	Gov 232 Introduction to American Government II 3
His 134 History of Texas	PE Activity (1 per semester)
PE Activity (1 per semester)	C&I 2301 Foundations of Special Education
Academic Foundations Electives	C&I 2302 Identification of Exceptional
Geo 237 or 238 Physical, Cultural Geology 3	Individual
	Mth 3313 Modern Elementary Geometry
	Science
34	
_	
Third Year	Fourth Year
C&I 3304 Edu Needs Excp Ind 3	C&I 4308 Apprsl Proc Excp
C&I 3305 Rdng/L.A. Excp Lrnr	C&I 4309 Instruction of Exceptional Learner3
C&I 4307 Prctm Rdng/L.A. Excp	C&I 4310 Practicum Instructing Exceptional Learner3
PE 335 or 339 Atypical/Elem Schl	Spc 333 Interpretation of Children's Literature 3
Art 3371 Elementary Art Education	Edu 437 Science and Social Studies
Edu 331 Foundations of Education	Edu 434 Classroom Management3
Edu 332 Educational Psychology	Edu 463 Student Teaching-Special
Edu 333 Language Arts in the Elementary School 3	Academic Foundations Electives
Edu 334 Child Development and Evaluation 3	Free Electives
Edu 335 Arithmetic in the Elementary School 3	
Edu 339 Reading in the Elementary School 3	
Free Electives	
36	30

# **Kindergarten Certificate Requirements**

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 Special Education 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 Art

Biology Chemistry

Communication (Journalism)

Computer Science French

Earth Science

Economics

English (second field only)

French

General Science Government

Physical Education

History

Life-Earth Science Middle

'School Mathematics

Theater

Physical Science Physics

Psychology

Social Studies Sociology

Spanish

Special Education

Generic (second field only)

Speech Theater Bachelor's Degree in a Particular

Discipline Art (all levels)

Business (Office Administration) Communication (Journalism)

Dance English

Government Health Education

History

Home Economics

Mathematics

Music (all levels)

Physics Spanish

Special Education Generic

Speech

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 Department of Health and Physical Education for Women 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 adacemic foundations. (When selected as area of greatest interest, program must include a foreign language through 232).

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See Department of Health, Physical Education for Women and Dance Health Education in this bulletin.

Specialization: (24 semester hours) His 131, 132, six hours advanced American History 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 (Men) See Department of Health and Physical Education for Men in this Bulletin.

See Department of Health and Physical Education for Physical Education (Women) Women in this bulletin.

Specialization: (28-30 semester hours) Chm 141, 142, Phy 141, 142; plus Physical Science 12 hours to be selected from: Chm 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.

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)

Edu 331 Foundations of Education

Edu 332 Educational Psychology

Edu 338 Curriculum, Materials and Evaluation in the Secondary School

Edu 438 Classroom Management

Edu 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 Composition6	Eng Literature6
Mth6	Six hours of Sophomore
Science Laboratory	American History from:
PE Activity (2 semesters)2	231, 232, 233, 234, 235, 236
First Teaching Field	Gov 231-232 Introduction to American Government 6
Second Teaching Field	PE Activity (2 semesters)2
Academic Foundations Electives	First Teaching Field
	Second Teaching Field
	Academic Foundations Electives
2/	25
34	, 35
Third Year	Fourth Year
Edu 331 Foundations of Education	Edu 438 Classroom Management3
Edu 332 Educational Psychology	Edu 462 Student Teaching in the Secondary School 6
Edu 338 Curriculum and Materials	First Teaching Field (Advanced)6
First Teaching Field (6 hours advanced)9	Second Teaching Field (Advanced)6
Second Teaching Field (6 hours advanced)	Academic Foundations Electives
Academic Foundations Electives	Free Electives
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.

# 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, language and/or 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 Special Education.

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

Edu 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

Edu 463 Student Teaching-Special

#### **Emotionally Disturbed**

C&I 2301 Foundations of Special Education

C&I 3313 Behavioral Characteristics and Learning Procedures of the Emotionally Dis-

C&I 4314 Educational Needs of the Emotionally Disturbed

C&I 4310 Practicum in Instructing the Exceptional Individual

Edu 463 Student Teaching-Special

### Language and/or 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

Edu 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

C&I 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 Special Education.

### **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	Eng Literature6
Mth6	His Sophomore American History
Science Laboratory	Gov 231-232 Introduction to American Government 6
PE Activity (1 per sem)2	PE Activity (1 per semester)
Second Teaching Field	C&I 2301 Foundations of Special Education3
Academic Foundations Electives	C&I 2302 Identification of the Exceptional
	Individual
	Second Teaching Field
	Academic Foundations Elective
34	. 35
Third Year	Fourth Year
Third Year Edu 331 Foundations of Education	Fourth Year Edu 438 Classroom Management
Edu 331 Foundations of Education	Edu 438 Classroom Management3
Edu 331 Foundations of Education	Edu 438 Classroom Management
Edu 331 Foundations of Education3Edu 332 Educational Psychology3Edu 338 Curriculum and Materials3	Edu 438 Classroom Management
Edu 331 Foundations of Education	Edu 438 Classroom Management
Edu 331 Foundations of Education	Edu 438 Classroom Management
Edu 331 Foundations of Education	Edu 438 Classroom Management
Edu 331 Foundations of Education       3         Edu 332 Educational Psychology       3         Edu 338 Curriculum and Materials       3         C&I 3304 Educational Needs of Exceptional Individuals       3         C&I 3305 Rdng/LA. Excp Lrnr       3         C&I 4307 Prctm Rdng/LA. Excp       3         Second Teaching Field (Advanced)       6	Edu 438 Classroom Management
Edu 331 Foundations of Education       3         Edu 332 Educational Psychology       3         Edu 338 Curriculum and Materials       3         C&I 3304 Educational Needs of Exceptional Individuals       C&I 3305 Rdng/LA. Excp Lrnr       3         C&I 4307 Prctm Rdng/LA. Excp       3         Second Teaching Field (Advanced)       6         Academic Foundations Elective       3	Edu 438 Classroom Management

# 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 Elementary or Special Education.

# 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 Special Education.

First Year	Second Year
Eng Composition	Eng Literature
Mth/Laboratory Science Science	Mth/Laboratory Science
His Sophomore American History6	Gov 231 Introduction to American Government I3
PE Activity (1 per semester)	Gov 232 Introduction to American Government II 3
Psy 234 or 235 Child/Adolescent Psychology 3	Edu 231 Instructional Media in Classroom3
C&I 2301 Foundations of Special Education	C&I 2302 Identification of Exceptional Individual 3
Free Electives	C&I 3305 Rdng/L.A. Excp Lrnr
	Free Electives
32-33	30-31

# Curriculum and Instruction Courses (C&I)

*Note: To enrol! 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, C&I 2301, C&I 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 TEAcertification plans.

Prerequisite: Permission of the instructor.

2301 Foundations of Special Education

301 Foundations of Special Education 3:3:0
An orientation to background, terminology and programs for those who are exceptional. Designed as an overview of Special Education. A first course for those planning to certify in Special Education.

2302 Identification and Characteristics of the Exceptional Individual 3:3:0
Principles of normal and abnormal child growth and development. Nature and causes of behavioral and physical characteristics and basic techniques of management.

231 Instructional Media in the Classroom
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

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

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 124 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, and possess a 2.0 or above grade point average.
C&I 331

3304 Educational Needs of the Exceptional Individual 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.

33:30

Foundations of Education
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.

33:10 Identification and Habilitation of the Mentally Retarded
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
3313	behavior of physically handicapped children. <b>Behavioral Characteristics and Learning Procedures of the Emotionally Disturbed</b> 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 distrubed.
3316	Identification of Language and Learning Disorders  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  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.
332	<b>Educational Psychology</b> Principles and psychological problems involved in education with emphasis on learning theories and the practical application of psychological principles to teaching.
222	Prerequisite: Junior standing.
333	<b>Language Arts in the Elementary School</b> The study and use of materials and techniques in the teaching of oral and written communication.  3:3:0
/	Prerequisite: Edu 331.
33 <del>4</del>	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: Edu 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  Materials and Resources for Teaching Reading 3:3:0
337	A concentration on planning, producing, selecting, organizing and evaluating instructional materials and equipment to be used in teaching reading.
338	Prerequisite: Edu 233 or Edu 339.  Curriculum, Materials and Evaluation in the Secondary School 3:3:0
3,50	The structure and organization of the curriculum, materials used and types of evaluation utilized.  Prerequisite: Edu 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: Edu 331.
4101.4	1-6:1-6:0 Institute or Workshop in Education
,	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
4302	institute differs sufficiently from one previously taken.  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
4304	language experiences, science and mathematics concepts and creative expression.  History and Philosophy of the Kindergarten 3:3:0
1,501	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 region Flamentary Secondary and Special Education. The description of the particular area of study will
	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

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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 Edu 233, 337, 339.
432	Educating the Culturally Different 3:3:0
	Delineates personal characteristics and the affective domain of the culturally different and identifies educa-
	tional 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: Edu 331 and 332.
435	Indivudalized 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: Edu 338.
4381	Instructional Process with the Severely and Profoundly Handicapped 3:3:0
	Translating the behaviours of the severely and profoundly handicapped into developmental categories and
	applied instructional modification process
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 U 31 or by special permission of the instructor.
462	Student Teaching in the Secondary School 6:A:0
	Supervised observation and teaching in the secondary school.
	Prerequisite: Edu 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 educa-
	tion, kindergarten education and speech and hearing.
	Prerequisite: Edu 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: Edu 434. Class: 3 hours in elementary classrooms 5 days per week for 16 weeks.
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# Department of Health and Physical Education for Men

Director of Academic Programs: L. A. Yates

Director of Required Activity Programs: Vernon Crowder

Professors: Crowder, Higgins, Yates

Associate Professor: Jolly

Assistant Professors: Frederick, Payton, Worsham

Instructors: Gilligan, Wesbrooks, Zeek

Lecturers: Brooks, Burnham, Foster, Hanson, Green, Mullins, Senorskil, Grost

# **Bachelor of Science in Physical Education — Men**

The following degree program fulfills curriculum requirements for the Provisional Teaching Certificate Secondary in the State of Texas.

### **Recommended Program of Study**

First Year	Second Year
Eng Composition	Eng Literature6
Bio 141-142 General Biology	Gov 231-232 Introduction to American Government 6
Mth6	His Sophomore American History
Spc 131 Public Speaking	MPE 231 Biomechanics of Sport and Exercise 3
MPE 132 Principles	PE Sophomore Activity
MPE 236 Physical Education in the Secondary School3	*Electives
	Licetves
PE Activity	•
*Electives3	
. 34	34
Third Year	Fourth Year
Bio 330 Applied Anatomy and Kinesiology3	Edu 438 Classroom Management Secondary
Edu 331 Foundations of Education	Edu 462 Student Teaching in the Secondary School 6
Edu 332 Educational Psychology	MPE Advanced Elective
Edu 338 Curriculum and Materials	MPE 436 Organization and Administration3
MPE 331 Coaching Major Sports or	*Electives
MPE 332 Coaching Major Sports3	Electives
MPE 333 Physiology of Exercise	
MPE 336 Tests and Measurements	
*Electives	
22	
33	30

^{*}Electives must include the following:

An approved additional teaching field of 24 semester bours Consult this bulletin, Department of Secondary Education, for requirements for additional teaching fields.

Nine semester bours of electives from the five groups described under "Academic Foundations" with courses included from a minimum of three groups.

# Men's Physical Education Courses (MPE)

### Activity Courses (MPE)

#### Concepts of Physical Fitness

1:1f4:1f4

First activity course required of all men students seeking a degree at Lamar. Nine weeks of lecture on the concepts of physical fitness followed by an individualized fitness program and pre and post testing. May be repeated for credit.

#### 112 Freshman Activity

Continuation of first year physical education program. Nine weeks of recreational activity in one sport or activity of the student's choice. Fulfills second semester requirement.

Prerequisite: MPE 111.

#### 113 Freshman Activity

Continuation of first year physical education program. Nine weeks of recreational activity in one sport or activity of the student's choice. Fulfills second semester requirement.

Prerequisite: MPE 111.

#### 221-222 Sophomore Activity

Continuation of required physical education activity in the second year of the program. Consists of instruction in fundamentals, rules and participation in selected team, dual and individual sports and activities of the students' choice.

Prerequisite: MPE 111. May be repeated for credit.

#### 2200 Modified Activity

Modified or special exercise programs and selected game fundamantals for those individuals who, for physical limitations, are unable to take regular activity courses.

#### May be repeated for credit. 2201 Intermediate Swimming

2:1:2

Optional activity in the physical education program. Lecture, demonstration and practice in the fundamentals of

Prerequisite: MPE 111 and demonstrated ability to swim.

#### 2202 Senior Life Saving

Optional activity in the physical education program. Lectures, demonstrations and practice in the techniques of

Prerequisite: Demonstrated swimming ability.

2203 Water Safety Instruction Optional activity in the physical education program. Organization, conditioning and preparation of students in the required swimming and lifesaving skills. Advanced students may qualify for American Red Cross Water Safety Prerequisite: Current Red Cross Senior Lifesaving Certificate. 2204 Strength Training 2:1:2 Optional activity in the required program. Individually structured isotonic strength training program using weights and weight room equipment. Prerequisite: MPE 111. May be repeated for credit. 2205 Strength Training for Athletes 2:1:2 Optional activity in the required program. Advanced, intensified strength training program for athletes utilizing specialized programs for different sports. Prerequisite: Varsity athlete. May be repeated for credit. 2206 Intermediate Tennis 2:1:2 Instruction and practice in the basic strokes, elements and basic game strategy of tennis. Prerequisite: MPE 111. May be repeated for credit. 2207 Handball and Racquetball 2:1:2 Instruction and practice in beginning through advanced skills in handball and racquetball. Emphasis on teaching techniques and skill progression. Prerequisite: MPE 111. May be repeated for credit. 2208 Advanced Baseball 2:1:2 Instruction and practice in the advanced techniques, skills and organization of baseball for players and potential Prerequisite: MPE 111. May be repeated for credit. 2209 Advanced Basketball 2:1:2 Instruction and practice in the advanced techniques, skills and organization of basketball for players and potential Prerequisite: MPE 111. May be repeated for credit. 2:1:2 2210 Golf Instruction and practice in beginning through advanced golf skills. Emphasis on teaching technique and progression Prerequisite: MPE 111. May be repeated for credit. 2211 **Gymnastics** 2:1:2 Instruction and practice in gymnastic skills to include spotting techniques, class organization and movement principles. Prerequisite: MPE 111. May be repeated for credit. 2212 **Martial Arts** 2:1:2 Instruction and practice in the beginning skills of unarmed defense as a sport. Not designed for the advanced Prerequisite: MPE 111. May be repeated for credit. Professional Courses (MPE) 132 **Principles** Definition, terminology, aims, objectives, history and principles of physical education, health education, recreation and safety. A survey course of the nature of the fields and specialized areas within the professional field with opportunities for self-evaluation in the professional competencies expected of personnel in the profession. May be used to satisfy part of requirements for Teacher's Certificate. 231 Biomechanics of Exercise and Sport An introduction into the nature of motor skills. Emphasis is placed on analyzing and evaluating human motion in various forms of physical activity. 236 Physical Education in the Secondary School Theory, methods and materials for instruction of physical education at the secondary level with stress on individual, team, recreational and carry-over type games and sports for later adult life participation. Classroom and field laboratories for demonstrations and practice included. Prerequisite: MPE 132. 237 Athletic Training and Conditioning 3:3:0 A study of training and conditioning methods for the individual and team; arrangement and care of training room; care and prevention of athletic injuries. 330 Safety and First Aid A survey of safety and first aid. Includes traffic safety and safety at home, work, school and play. Includes the scope, needs and limitations of first aid with laboratory training in the techniques and methods of treatment of injuries. 331 Coaching Major Sports Football and Basketball

Coaching Major Sports, Baseball and Track

The fundamentals, theory, history, development and modern techniques in baseball and track. Lectures and demonstrations in coaching methods and techniques. Some laboratory experience required in track phase of the course.

The fundamentals, theory, history, development and modern techniques of football and basketball. Lectures and

demonstrations in coaching methods and techniques.

332

#### 333 Physiology of Exercise

3:3:0

Muscular, nervous, circulatory and respiratory systems as related to exercise. Experiments on human subjects are

Prerequisite: Bio 141.

#### 334 Driver Education

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 the training automobile while instructing students. For teaching professional students how to teach driver education. Prerequisite: Texas Driver's License.

#### Organization and Administration of Intramural Sports 335

Theory and practice of organizing and administering the intramural sports program. Includes problems in scheduling, financing, promotion, activities, officiating, classification of students and evaluation of the program. 3:3:0 Tests and Measurements

336

Use, interpretation, evaluation and administration of tests peculiar to health and physical education; application of elementary statistical procedures.

#### 339 Physical Education in the Elementary School

The theory and practice of teaching physical education activities in the elementary grades. Classroom instruction and field laboratory assignments are included for demonstration and practice. Stress is placed on games of low organization. Classified as elementary physical education for purposes of teacher certification.

416 Student Teaching in Driver Education 1:1:0

Supervised observation and teaching of driver education in actual class and behind-the-wheel training. Prerequisite: MPE 330 and 334.

430 Problems in Physical and Health Education, Recreation and Safety 3:A:0

Special problems in physical and health education, recreation and safety are assigned to individual students or to groups of students. Assignments are made and consultations are held.

Enrollment by prior approval from department head. Class: by consultation.

3:3:0

Officiating Football A study of the rules and their interpretation and of the mechanics of officiating. The course is designed to develop the skill and knowledge required in officiating football.

433 Officiating Basketball

432

436

4301

ing:

3:3:0

A study of the rules and their interpretation and of the mechanics of officiating. The course is designed to develop the skill and knowledge required to officiate basketball.

435 Adapted Physical Education

Diagnosis and recognition of remedial cases. Instructional and remedial activities for individuals needing modified or special exercise programs.

Workshop in Physical Education

Organization and Administration of Physical and Health Education and Athletics Administration procedures in setting up and conducting programs in physical education, health education and intramural athletics. A survey of types of programs, administrative organizations, scope, personnel, policies, functions and duties of supervision, related problems in the three areas.

Prerequisite: Junior standing.

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 differs from one previously taken..

# Athletic Training Specialization

Certification and licensing of athletic trainers is available through meeting the follow-

- 1. Teacher certification with a teaching field in HPE and a second teaching field.
- 2. N.A.T.A. Certification upon passing certification examination.
- Licensed Athletic Trainer by State of Texas upon passing state board examination.

Further information may be secured through the Department of HPE for Men. Application must be made through the 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:

MPE 330 Safety and First Aid

MPE 334 Driver Education

MPE 416 Student Teaching in Driver Education

# Department of Health, Physical Education and dance for Women

Department Head: Belle M. Holm

101B Women's Gymnasium

**Director of Professional Programs:** Alice C. Bell **Director of Dance Division:** Rebecca O. Hill **Director of Graduate Division:** Virginia Raye Holt

Director of Health Division: Alice C. Bell

Director of Physical Education Division: Mildred Lowrey

Professors: Bell, Holm

**Associate Professors:** Holt, Lowrey

**Assistant Professors:** Gremillion, Hill, Park **Instructors:** Greenockle, Kindl, Newberry

Lecturers: Bussell, Calvert, Crawford, Ghezzi, Ramsey, Treadway

The Department of Health, Physical Education and Dance for Women provides several career options for students. Three teacher education certification programs are offered: dance education coed, health education coed and women's physical education. Three programs of study are available which do not lead to teacher certification: dance education coed, health education coed and recreation education coed. 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 141-142 General Biology	Eng Literature6
Eng Composition	His Sophomore American History6
Mth6	Gov 231-232 Introduction to American Government 6
Dan 127 Folk Dance	WPE 2251 Tumbling and Gymnastics
Dan 123 Introduction to Dance	Second Teaching Field
Dan 129 or Dan 1252/1253	Dance Elective Ballet or Modern
*Elective	
Dance Elective Ballet or Modern	

33

Third Year	Fourth Year
Bio 330 Anatomy	Edu 438 Classroom Management3
Edu 331 Foundations of Education	Edu 462 Student Teaching in the Secondary School 6
Edu 332 Educational Psychology	Dan 336 Choreography and Dance Production 3
Edu 338 Curriculum and Materials3	Dan 434 Methods and Materials in Dance Education 3
WPE 333 Physiology of Exercise	Dan 439 History and Theory of Dance
Dan 3301 Theater Dance Forms or	Second Teaching Field
WPE 236 Administration of Physical Education 3	*Elective
Dan 335 Principles of Creative Dance	
Dan 2221 Ballet Company or	
Dan 2222 Modern Dance Company2	
Second Teaching Field	
Dance Elective Ballet or Modern	
. 33	
Total 132 hours	<b>3</b>

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**

The dance education major prepares the student for private studio adminstration, teaching and professional performance.

teaching and professional performance.	
First Year	Second Year
Bio 141-142 General Biology	Eng Literature6
Dan 1261, 1262, 1263 or 1264 Ballet Technique 2	Gov 231-232 Introduction to American Government 6
Dan 127 Folk Dance2	His Sophomore American History
Dan 1281, 1282, 1283 or 1284 Modern Dance 2	WPE 2251 Tumbling and Gymnastics
Eng Composition	Dan 129 Tap Dance
Mth or Foreign Language	Dan 2221 Ballet Company
MEd 131 Elements of Music	Dan 2222 Modern Dance Company2
Dan 123 Introduction to Dance	Dan 2223, 1253, 2260 Ensemble, Jazz or Musical Com-
	edy
31	*Electives6
	. 34
Third Year	Fourth Year
Bio 330 Anatomy	Dan 336 Choreography and Dance Production 3
Art 139, 235 or 2363	Dan 430 Individual Study in Dance Education or
WPE 333 Physiology of Exercise	Dan 4301 Workshop in Dance Education
Dan 3301 Theatre Dance Forms3	Dan 434 Methods and Materials in Dance Education 3
Dan 335 Principles of Creative Dance	Dan 439 History and Theory of Dance
*Electives	*Electives
33	30
Total 128 semester hours	30

Total 126 semester nours

### 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.

^{*}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 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.

## **Health Education Certification Program**

First Year	Second Year
WPE Activity	WPE Activity
Bio 141-142 General Biology 8	Academic Foundation Electives
Elective	Eng Literature6
Eng Composition	Gov 231-232 Introduction to American Government 6
HEd 131 Emergency Care, Safety and Survival 3	HEd 234 Public and Consumer Health
HEd 133 Personal Health	HEd 237 Health Education in the Secondary School 3
Mth	His Sophomore American History
Academic Foundation Elective	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
34	. 32
Third Year	Fourth Year
Bio 330 Anatomy	Edu 438 Classroom Management3
Edu 331 Foundations of Education	Edu 462 Student Teaching in the Secondary School 6
Edu 332 Educational Psychology	Academic Foundation Electives
Edu 338 Curriculum and Materials	HEd 434 Health and Human Ecology
Elective	HEd 437 Health Science and Epidemiology 3
HEd 331 Measurement in Health	Second Teaching Field
HEd 337 Contemporary Health Problems3	
Second Teaching Field	
<del></del>	
33	33
Total 132 semester hours	

^{*}Academic foundation program required and electives may not include more than six semester hours eight in science overlap with any teaching field.

### **Health Education Non-Certification**

First Year	Second Year
Activity 111	Activity 112
Bio 141-142 General Biology	Eco 233 Principles and Policies
*Elective	*Elective
Eng Composition	Eng Literature6
HEd 131 Emergency Care, Safety and Survival 3	Gov 231-232 Introduction to American Government 6
HEd 133 Personal Health	HEd 234 Public and Consumer Health
Mth6	HEd 237 Health Education in the Secondary School 3
Psy 131 Introduction to Psychology3	His Sophomore American History
WPE 123 Basic Movement Fundamentals	WPE 225 Lifesaving
35	33
Third Year	Fourth Year
Bio 330 Anatomy	*Electives
*Electives	HEd 430 Individual Study in Health Education 3
Gov 3316 Introduction to Public Administration 3	HEd 4301 Workshop in Health Education
HEd 337 Contemporary Health Problems3	HEd 434 Health and Human Ecology
Spc 238 Oral Controversy	HEd 437 Health Science and Epidemiology 3
WPE 333 Physiology of Exercise	Soc 437 Public Opinion
Total 126 semester hours	

^{*}Electives should include the following:

### Women's Physical Education

The women's physical education program of study prepares the student for a teaching career in women's physical education for an advanced degree. A companion program of specialization in elementary physical education is available through the Bachelor of Science in Elementary Education (see Department of Elementary Education in this bulletin for further information.

A related minor of 18 semester hours approved by counselor.

A related elective program of 16 semester hours guided by counselor.

## **Women's Physical Education Certification Program**

ral Biology 8 6 Gov 231-232 Introduction to American Government. 6 His Sophomore American History. 6 Mere 236 Administration of Physical Education 3 mg and Gymnastics 2 lectives 5 k or Modern Dance 2 Signature American History. 5 k or Modern Dance 2 Signature American History. 5 k or Modern Dance 2 Signature American History. 7 Signature 3 Signature 3 Signature 4 Signatur	****	inen 5 Physical Ludcation Ce	
ral Biology 8 6 Gov 231-232 Introduction to American Government. 6 His Sophomore American History. 6 Mere 236 Administration of Physical Education 3 mg and Gymnastics 2 lectives 5 k or Modern Dance 2 Signature American History. 5 k or Modern Dance 2 Signature American History. 5 k or Modern Dance 2 Signature American History. 7 Signature 3 Signature 3 Signature 4 Signatur			
ral Biology 8 Gov 231-232 Introduction to American Government . 6 His Sophomore American History. 6 6 WPE 236 Administration of Physical Education . 3 WPE 235 Psychosocial Aspects of Sport		y selected from WPE 123, 223	
6 His Sophomore American History. 6 10 Arbysical Education 3 10 Electives 5 10 Arbysical Education 3 10 Electives 7 10 Arbysical Education 3 10 Electives 10 Arbysical Education 11 Arbysical			
MPE 235 Psychosocial Aspects of Sport			
tion to Physical Education			
ng and Gymnastics 2 Electives		32 Introduction to Physical Education 3	
Third Year  32  Fourth Year  33  Third Year  34  Sons of Education  35  Edu 438 Classroom Management  36  and Psychology  37  WPE 432 Measurement and Evaluation  38  WPE 432 Moror Learning  39  WPE Elective (Advanced)  39  Second Teaching Field  30  Second Teaching Field  31  WPE Handle Second Teaching Field  30  Thours  WEE Introduction to dance Emphasis is on basic terms, movements, concepts, and principles of dance  30  31  Barz  32  112  134  335  Barz  135  Barz  136  Ballet Technique  2112  136  Ballet Technique  2112  137  138  Ballet Technique  2112  139  130  130  130  130  130  130  130		251 Tumbling and Gymnastics	
Third Year  Third Year  Third Year  Third Year  Third Year  Sons of Education  3 Edu 438 Classroom Management  3 Edu 462 Student Teaching in the Secondary School  3 WPE 432 Measurement and Evaluation  3 WPE 435 Motor Learning  3 WPE 435 Motor Learning  3 WPE 243 Motor Learning  4 Second Teaching Field  3 WPE 243 Motor Learning  3 WPE 245 Motor Learning  3 WPE 245 Motor Learning  3 WPE 245 MPE 243 Motor Learning  3 WPE 245 MPE 243 Motor Learning  3 WPE 245 MPE		27, 1281 Folk or Modern Dance	
Third Year    3		ve	•
Third Year    3			
3 Edu 438 Classroom Management			
ons of Education 3 Edu 462 Student Teaching in the Secondary School 6. 6 and Psychology 3 WPE 432 Measurement and Evaluation 3 m and Materials 3 WPE 433 Motor Learning 3. 3 m and Materials 3 WPE 433 Motor Learning 3. 3 go of Exercise 3 WPE Edective (Advanced) 3. 3 m as and Curriculum 3 Electives 3. 4 Electives 4. 4 Elec	Dio 33		
nal Psychology			
mm and Materials 3 WPE 433 Motor Learning		32 Educational Psychology	
Electives		38 Curriculum and Materials	
Field		33 Physiology of Exercise	WPE Elective (Advanced)
re hours    Company   Comp		36 Techniques and Curriculum3	
thours    Company   Compan		/es	Second Teaching Field
cr hours    Company   Comp	Secon	d Teaching Field	
cr hours    Company   Comp		34	33
tion to Dance introduction to dance. Emphasis is on basic terms, movements, concepts, and principles of dance.  Jazz 2:1:2 introduction to dance. Emphasis is on basic terms, movements, concepts, and principles of dance. 2:1:2 in and practice in jazz dance. May be repeated for credit. 2:1:2 in and practice in ballet technique. Emphasis is placed upon accurate technique and placement. May be concredit.  ce 2:1:2 in practice in beginning folk dance. Emphasis is placed upon the historical and cultural background of the tional dances.  1:1:2 in and practice in beginning tolk dance. Emphasis is placed upon the historical and cultural background of the tional dances.  1:1:2 in and practice in the techniques of modern dance and composition. May be repeated for credit.  1:1:2 in and practice in beginning tap dance.  1:1:2 in and practice in beginning tap dance.  1:1:5 in and practice in beginning tap dance.  2:1:5 in and practice of making tap dance.  2:1:5 in and practice of practice of the various and divergent dance forms. May be repeated for credit.  2:1:5 in and practice of practice of the various dance as applied to musical comedy. May be repeated for credit.  2:1:5 in and practice of the various dance forms utilized in the theater.  3:1:6 in and practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an and leading the student to gather self-expression in a dance/movement activity.  2:1:6 2:1:7 2:1:7 2:1:7 2:1:5 2	. Total	132 semester hours	
tion to Dance introduction to dance. Emphasis is on basic terms, movements, concepts, and principles of dance.  Jazz 2:1:2 introduction to dance. Emphasis is on basic terms, movements, concepts, and principles of dance. 2:1:2 in and practice in jazz dance. May be repeated for credit. 2:1:2 in and practice in ballet technique. Emphasis is placed upon accurate technique and placement. May be concredit.  ce 2:1:2 in practice in beginning folk dance. Emphasis is placed upon the historical and cultural background of the tional dances.  1:1:2 in and practice in beginning tolk dance. Emphasis is placed upon the historical and cultural background of the tional dances.  1:1:2 in and practice in the techniques of modern dance and composition. May be repeated for credit.  1:1:2 in and practice in beginning tap dance.  1:1:2 in and practice in beginning tap dance.  1:1:5 in and practice in beginning tap dance.  2:1:5 in and practice of making tap dance.  2:1:5 in and practice of practice of the various and divergent dance forms. May be repeated for credit.  2:1:5 in and practice of practice of the various dance as applied to musical comedy. May be repeated for credit.  2:1:5 in and practice of the various dance forms utilized in the theater.  3:1:6 in and practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an and leading the student to gather self-expression in a dance/movement activity.  2:1:6 2:1:7 2:1:7 2:1:7 2:1:5 2			
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ry course providing both background study and practical work in the specialized field of musical comedy participation in the presentation of a full production. Open by audition or by consent of the instructor to om all departments who are interested in dance as applied to musical comedy. May be repeated for credit.  **Dance Forms** 3:1:2  a, study and practice of the various dance forms utilized in the theater.  **s of Creative Dance** 3:3:0  di practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an and leading the student to gather self-expression in a dance/movement activity.  **apphy and Dance Production** 3:2:1  of the art of choreography and the study of the various facets utilized in dance production.  p in Dance Education** 1:1:0  of workshops are designed to advance the professional competence of dance teachers. For each, a			
participation in the presentation of a full production. Open by audition or by consent of the instructor to om all departments who are interested in dance as applied to musical comedy. May be repeated for credit.  **Dance Forms**  3:1:2  a, study and practice of the various dance forms utilized in the theater.  5 of Creative Dance  3:3:0  di practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an and leading the student to gather self-expression in a dance/movement activity.  **aphy and Dance Production**  3:2:1  of the art of choreography and the study of the various facets utilized in dance production.  p in Dance Education**  1:1:0  of workshops are designed to advance the professional competence of dance teachers. For each, a			
om all departments who are interested in dance as applied to musical comedy. May be repeated for credit.  3:1:2 a, study and practice of the various dance forms utilized in the theater.  5 of Creative Dance  5:3:0 d practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an and leading the student to gather self-expression in a dance/movement activity.  2:1 aphy and Dance Production  5:2:1 of the art of choreography and the study of the various facets utilized in dance production.  p in Dance Education  1:1:0 of workshops are designed to advance the professional competence of dance teachers. For each, a	A laboratory course providing both background study and practical work in the specialized field of musical comedy		
As a study and practice of the various dance forms utilized in the theater.  In study and practice of the various dance forms utilized in the theater.  In study and practice of the various dance forms utilized in the theater.  In study and practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an and leading the student to gather self-expression in a dance/movement activity.  In study and Dance Production  In the art of choreography and the study of the various facets utilized in dance production.  In plance Education  In the art of choreography and the study of the various facets utilized in dance production.  In the art of choreography and the study of the various facets utilized in dance production.  In the art of choreography and the study of the various facets utilized in dance production.  In the art of choreography and the study of the various facets utilized in dance production.			. ,
a, study and practice of the various dance forms utilized in the theater.  s of Creative Dance  d practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an and leading the student to gather self-expression in a dance/movement activity.  aphy and Dance Production  3:2:1  of the art of choreography and the study of the various facets utilized in dance production.  p in Dance Education  1:1:0  of workshops are designed to advance the professional competence of dance teachers. For each, a		•	ce as applied to musical comedy. May be repeated for credit.
s of Creative Dance d practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an and leading the student to gather self-expression in a dance/movement activity.  apply and Dance Production of the art of choreography and the study of the various facets utilized in dance production.  p in Dance Education 1:1:0 of workshops are designed to advance the professional competence of dance teachers. For each, a	3301	Theater Dance Forms	
d practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an and leading the student to gather self-expression in a dance/movement activity.  Taphy and Dance Production  The art of choreography and the study of the various facets utilized in dance production.  The in Dance Education  The production of workshops are designed to advance the professional competence of dance teachers. For each, a		Instruction, study and practice of the various dance for	ns utilized in the theater.
and leading the student to gather self-expression in a dance/movement activity.  aphy and Dance Production  of the art of choreography and the study of the various facets utilized in dance production.  p in Dance Education  of workshops are designed to advance the professional competence of dance teachers. For each, a	335	Principles of Creative Dance	3:3:0
aphy and Dance Production  of the art of choreography and the study of the various facets utilized in dance production.  p in Dance Education  of workshops are designed to advance the professional competence of dance teachers. For each, a	Theory and practice of instructing creative dance. Emphasis is placed on positive reinforcement of the student as an		
aphy and Dance Production  of the art of choreography and the study of the various facets utilized in dance production.  p in Dance Education  of workshops are designed to advance the professional competence of dance teachers. For each, a	individual and leading the student to gather self-expression in a dance/movement activity.		
of the art of choreography and the study of the various facets utilized in dance production.  p in Dance Education  1:1:0  of workshops are designed to advance the professional competence of dance teachers. For each, a	336		
p in Dance Education 1:1:0 of workshops are designed to advance the professional competence of dance teachers. For each, a			·
of workshops are designed to advance the professional competence of dance teachers. For each, a	4101	Workshop in Dance Education	•
	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.	so repeated for ereal when made or workshop
one previously ameri.		antero nom one previously taken.	
i of the particular area of study with be indicated. May be repeated for credit when nature of w	4101	A number of workshops are designed to advance the	
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Prerequisite: Senior standing and consent of department head. May be repeated for credit. Class by consultation.

3:A:0

430

Individual Study in Health Education

Selected problems in health.

previously taken.

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.
Wo	men's Physical Education Courses (WPE)
	· · · · · · · · · · · · · · · · · · ·
Pro	fessional Courses (WPE)
123	Basic Movement Fundamentals 2:3:0
	Study of joint actions, balance, locomotor forms, rhythm, force production and object projection. Introductions to
	movement patterns basic to sport or dance with accompanying movement analysis.
132	Introduction to Physical Education 3:3:0
	Introduction to modern elementary and secondary physical education and to specialized related areas. Includes
	definitions, terminology, aims and objectives of physical education.
201	The Teaching and Coaching of Tennis 2:1:2
	Instruction and practice in beginning through advanced tennis skills with emphasis on teaching and coaching
	techniques and progression of skills.
223	The Teaching and Coaching of Volleyball 2:1:2
	The development of knowledge and skills in individual fundamentals, techniques, training and team play. Emphasis
	on teaching, coaching and officiating methods.
224	The Teaching and Coaching of Softball 2:1:2
	Instruction in the skills and knowledge of soccer and softball. Teaching and coaching methods and organization of
	outdoor field sports.
2251	The Teaching and Coaching of Gymnastics 2:1:2
	Development of tumbling skills with knowledge of movement principles, spotting techniques and class organiza-
	tion. Instruction and practice on gymnastics apparatus and floor exercise. Emphasis on spotting techniques and
	teaching methods.
227	The Teaching and Coaching of Badminton 2:1:2
	Instruction and practice of beginning through advanced badminton techniques. Emphasis on organization and
	teaching methods of indoor racket sports.
228	The Teaching and Coaching of Track and Field 2:1:2
220	Instruction in the skills and knowledge of track and field. Emphasis on teaching and coaching methods.
229	The Teaching and Coaching of Basketball 2:1:2
	The development of knowledge and skills in individual and team drills and skills. Emphasis on teaching and
235	coaching methods.  Psychosocial Aspects of Sport 3:3:0
23)	Psychosocial Aspects of Sport  8:3:0  Psychological and sociological perspectives of sport; social psychology as it relates to physical activity, social
	processes, personalities of sport participants, and current literature related to psychosocial aspects of sport.
236	Administration of Physical Education 3:3:0
-50	Study of structure, organization, personnel, financing and management systems in the administration of physical
	education and athletic programs.
333	Physiology of Exercise 3:3:0
333	The application of physiological principles applied to muscular activity.
	Prerequisite: Bio 141-142 and 330.
335	Elementary Physical Education and Recreation for the Atypical Child 3:3:0
557	The physical, mental, emotional and social traits of atypical children as they relate to motor learning. The effects of
	traits on motor learning. The objectives, programs and techniques and activities of instruction. Lectures, laboratory
	and observation.
336	
330	<b>Techniques and Curriculum in Secondary Physical Education</b> 3:3:0 Study of and clinical experience in planning and guiding learning of movement activities. Includes presentation
-	
220	methods from command to problem solving and use of instructional materials and media.
339	Physical Education in the Elementary School  3:3:0  The theory of teaching physical education activities in the elementary grades. Classroom instruction and field
	The theory of teaching physical education activities in the elementary grades. Classroom instruction and field
	laboratory assignments are included for demonstration and practice. Stress is placed on games of low organization.
4101	Classified as elementary physical education for purpose of teacher certification.
*101	Workshop in Physical Education  1:1:0  A number of workshops are designed to advance the professional competence of teachers. For each description, the
	A number of workshops are designed to advance the professional competence of teachers. For each description, the

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#### 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.

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.

430 Individual Study in Physical Education Selected problems in Physical Education.

3:A:0

Prerequisite: Senior standing and consent of department head. May be repeated for credit. Class by consultation.

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431 Introduction to Community Recreation

Foundations of organized recreation; backgrounds and theories, objectives and principles; social and economic factors; public, private and commercial interests; recreation and social institutions. 432 Measurement and Evaluation Procedures in Physical Education

3:3:0

Study of purposes and methods of evaluation in the physical education program, Includes construction of evaluation instruments, experience in test administration and the use of elementary statistical procedures in test score interpretations and research.

433 Motor Learning

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.

### Aquatics Courses (WPE)

120 Swimming 2:1:2

Demonstrations, lectures and practice in the basic techniques of swimming and water safety skills. May be repeated

121 Swimming and Diving 2:1:2

Demonstrations, lectures and practice in the techniques and analysis of selected swimming strokes and dives.

220 Advanced Aquatic Sports

2:1:2

Lecture, demonstration and practice in synchronized or competitive swimming, scuba or springboard diving. Swimming proficiency test required. May be repeated for credit as topic varies.

225

The course is designed to create an interest in sailing and canoeing and to develop sufficient knowledge and skill to safely enjoy the sport as a recreational activity. Swimming proficiency test required.

226 Lifesaving and Water Safety Instruction

2:1:2

Development of proficiency in lifesaving and water safety skills, the theory and study for teaching water safety technique and procedures. Completion of course includes American Red Cross certification. Prerequisite: Intermediate Swimming Skills.

### General Activity Program (WPE-Dan)

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. It is recommended the student take one aquatic class, one dance class, one sport class and one elective class. Many students take more than four semesters of activity.

Aquatics: WPE The aquatic sections offer beginning swimming through advanced synchronized and competitive swimming, lifesaving and water safety instruction; and diving from beginning through scuba and advanced springboard.

Dance: DANThe 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: WPE The fitness sections offer general and individualized conditioning, jogging and field sports designed to provide conditioning and sports skill development.

Sports: WPE The sports sections offer instruction from beginning to competitive in badminton, basketball, fencing, golf, gymnastics, racketball, tennis, track and field and volleyball.

Students enrolled in women's 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 \$15 suit/towel rental and laundry fee, payable the first week of class, is charged for all swimming classes.

### **Activity Courses (WPE)**

Several types of activities are listed under WPE 111, 112, 221, or 222. Students should review the activities schedule posted in the Women's Gymnasium prior to each semester for appropriate selection of activities.

Two semester hours dance classes may be taken as a part of the activity requirement.

#### 111, 112 Activity

1:1:

Physical activities directed toward basic movement skills inherent in conditioning and sports. May be repeated for credit.

221, 222 Activit

2:1:2

Physical activities directed toward development of lifetime skills in sports. May be repeated for credit.

## Department of Home Economics

Department Head: Fern Rennebohm

115 Home Economics Building

Professor: Rennebohm

**Associate Professors:** Davidson, McAdams **Assistant Professors:** Anderson, Hinchey

Instructor: Elliff, Martin
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	Second Year
Eng Composition	Eng Literature
Laboratory Science or Mth	Eng Lit or App Sub
HEc 131 Food Selection and Preparation	Gov 231 Introduction to American Government I3
HEc 132 Clothing Selection and Construction 3	Gov 232 Introduction to American Government II 3
HEc 133 Visual Design3	HEc 231 Textiles
HEc 134 Foundations in Home Economics3	HEc 232 Dress Design
HEc 137 Intimate Relationships:Marriage and the Family	HEc 235 Meal Management
	Mth
PE Activity (2 semesters)2	Laboratory Science
Electives	Elective
	PE Activity (2 semesters)
	<u> </u>

Third Year	Fourth Year
HEc 233 Early Childhood Development	HEc 334 Advanced Child Development3
HEc 239 Nutrition	HEc 335 Housing and Home Furnishings
HEc 330 Family and Consumer Finance	HEc 433 Household Equipment3
HEc 331 Advanced Clothing Construction	HEc 437 or 43073
HEc 339 Seminar in Family Relations	HEc 439 Resource Mgt. Systems3
His Sophomore American History	Electives .:6
Electives 300-400 level	Electives6
Electives Free	
- 33	

#### **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	Second Year	
Eng Composition	Eng Literature	
Chm or Bio	Gov 231 Introduction to American	Government I3
HEc 131 Food Selection and Preparation	Gov 232 Introduction to American	Government II 3
HEc 132 Clothing Selection and Construction	HEc 231 Textiles	
HEc 133 Visual Design	HEc 232 Dress Design	
HEc 134 Foundations in Home Economics	HEc 233 Early Childhood Develops	ment
HEc 137 Intimate Relationships: Marriage and the	HEc 235 Meal Management	
Family	HEc 239 Nutrition	
Mth	Mth	
PE Activity (2 semesters)	Foundation Elective	:
	PE Activity (2 semesters)	
(		35
34		37
	Farmet Ware	
Third Year	Fourth Year	2
Edu 331 Foundations of Education	HEc 433 Household Equipment	
Edu 332 Educational Psychology	HEc 438 Teaching Methods and Ma	
HEC 330 Family and Consumer Finance	HEc 439 Resource Mgt. Systems	
HEc 334 Advanced Child Development	HEc 462 Student Teaching in Home	
HEc 335 Housing and Home Furnishings	Foundation Electives	
HEc 338 Phil Prin Voc	Free Electives	
HEc 339 Seminar in Family and Human Relations 3		
His Sophomore American History		
Foundation Elective		•
Free Elective		·
- 33		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	Second Year
Eng Composition	Eng Literature3
Bio 143-144 Human Physiology	Eng 4335 Technical Report Writing
	Gov 231 Introduction to American Government I3
Mth 1334 College Algebra3	Gov 232 Introduction to American Government II 3
Eco 233 Principles and Policies	Psy 131 Introduction to Psychology
HEc 131 Food Selection and Preparation	Chm 143 & 1448
HEc 132 Clothing Selection and Construction or	Bio 245 Introductory Microbiology
HEc 432 Family Clothing3	HEc 137 Intimate Relationships: Marriage and the Fam-
HEc 134 Foundations in Home Economics3	ily3
HEc 235 Meal Management3	HEc 239 Nutrition or HEc 138
PE Activity (2 semesters)2	PE Activity (2 semesters)2
34	<u> </u>

Third Year	Fourth Year
Soc 332 Social Psychology	Mgt 331 Principles of Management
His Sophomore American History6	Mgt 333 Personnel Management
Acc 231-232 Principles of Accounting 6	CS 133 Introduction to Computers or
HEc 330 Family and Consumer Finance	Mth 234 Elementary Statistics
HEc 332 Advanced Nutrition3	HEc 337 Personal Management3
HEc 333 Food Chemistry3	HEc 338 Philosophy & Principles of Vocational
HEc 336 Institutional Food Service	Home Economics3
Edu 332 Educational Psychology	HEc 430 Theraputic Nutrition
Electives	HEc 433 Household Equipment3
	Electives
26	
36	. 27

### **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.

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First Year	Second Year
Eng Composition	Eng Literature3
Mth or Laboratory Science6-8	Eng Lit or App Sub
HEc 131 Food Selection and Preparation or	Mth
HEc 132 Clothing Selection	Laboratory Science
HEc 133 Visual Design	His Sophomore American History
HEC 134 Foundations in Home Economics3	HEc 231 Textiles
HEc 137 Intimate Relationships: Marriage and the Fam-	HEc 233 Early Childhood Development
ily3	HEc 235 Meal Management
Soc 131 Introduction to Sociology3	SWk 231 Survey of the Social Welfare Institution3
PE Activity (2 semesters)2	Psy 131 Introduction to Psychology3
	PE Activity (2 semesters)2
	. 36
29 or 31	. 30
Third Year	Fourth Year
	- <del> </del>
Gov 231 Introduction to American Government I3	HEC 432 Family Clothing
Gov 232 Introduction to American Government II 3	HEC 435 Consumer Housing
HEc 239 Nutrition	HEc 439 Resource Mgt. Systems
HEc 330 Family and Consumer Finance	SWk 335 Social Work Practice with Target Groups 3
HEc 334 Advanced Child Development3	SWk 4321, 4324
HEc 339 Seminar in Family and Human Relations3	Soc or Psy 300 or 400 level
SWk 331 Social Work Practice I	HEc 300 or 400 level
SWk 333 Social Work Practice II	Electives
Soc or Psv 300 or 400 level	
Electives	· ·
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33	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	Second Year
Eng Composition	Eng Literature3
Mth or Laboratory Science6-8	Laboratory Science
HEc 130 Psychology of Clothing	Mth 13343
HEc 132 Clothing Selection and Construction 3	HEc 231 Textiles
HEc 133 Visual Design	HEc 232 Dress Design
HEc 134 Foundations in Home Economics	HEc 234 Introduction to Home and Fashion
HEc 137 Intimate Relationships: Marriage and the Fam-	Retailing
ily	Eco 233 Principles and Policies
Spc 131 Public Speaking	Acc 231 Principles of Accounting3
Art 131 Drawing I	Gov 231 Introduction to American Government I3
PE Activity (2 semesters)	Gov 232 Introduction to American Government II 3
	PE Activity (2 semesters)2
	- 26

Third Year	Fourth Year
His Sophomore American History	HEc 4317 Internship
HEc 235 Meal Management or	HEc 432 Family Clothing
HEc 131 Food Selection and Preparation or	HEc 434 Fashion Production
HEc 239 Nutrition	HEc 436 Home and Fashion Merchandising3
HEc 330 Family and Consumer Finance	Foreign Language or Spc 331 or 334
HEc 331 Advanced Clothing Construction 3	Mkt 332 Principles of Retailing
HEc 335 Housing and Home Furnishings or	MM 231, 138, or 2323
HEc 237 Fundamentals of Interior Design 3	Electives
HEc 337 Personal Management3	
HEc 433 Household Equipment3	
Mkt 331 Principles of Marketing3	
Mkt 333 Marketing Promotion	
Art 3353 Fashion Illustration,	
33	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	Second Year
Eng Composition	Eng Literature3
Mth or Laboratov Science6-8	Gov 231 Introduction to American Government I3
HEc 130 Psychology of Clothing or	Gov 232 Introduction to American Government II 3
HEc 132 Clothing Selection and Construction 3	HEc 131 Food Selection and Preparation or
HEc 133 Visual Design	HEc 239 Nutrition
HEc 134 Foundations in Home Economics 3	HEc 231 Textile
HEc 137 Intimate Relationships: Marriage and the Fam-	HEc 237 Fundamentals of Interior Design
ily	HEc 2307 History of Architecture and Interior Furnish-
Art 131 Drawing	ings
Dft 133 Introduction to Drafting 3	Art 132 Drawing II
PE Activity (2 semesters)	Mth 1334
TE Activity (2 Semesters)	Laboratory Science
	Art 134 Design II
. 1	PE Activity (2 semesters)
	PE Activity (2 semesters)2
32-34	36
Third Year	Fourth Year
Art 139, 235 or 236	HEc 433 Household Equipment
Eco 233 Principles and Policies	HEc 435 Consumer Housing or
Acc 231 Principles of Accounting	HEc 330 Consumer Economics
Spc 331 or 334 or Foreign Language	HEc 439 Resource Mgt. Systems
HEc 235 Meal Management or	HEc 4305 Advanced Interior Design
HEc 337 Personal Management	HEc 436 Home and Fashing Merchandising 3
HEc 3305 Components of Interior Design 3	HEc 4307 Internship in Interior Design
HEc 335 Housing and Home Furnishings	Mkt 331 Principles of Marketing
His 233 Sophomore American History	Mkt 331 Principles of Marketing         .3           Art 3313 Illustration I         .3
His 234 Sophomore American History	Art 300/400 level
Art Elective	Electives
Art Elective (300-400)	·
* 33	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.

Fi	rst	Yea	ľ
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Semester 1	Semester 2
HEc 131 Food Selection and Preparation	HEc 235 Meal Management3
HEc 1301 Sanitation and Safety in Food Service 3	HEc 1304 Food Service Equipment and Layout 3
HEc 239 Nutrition	MM 233 Fundamentals of Supervision & Leadership 3
HEc 1302 Orientation to Food Service Management Sys-	HEc 1205 Supervised field Experience I
tems3	TM 134 Business Mathematics
HEc 1303 Food Purchasing, Handling and Storage 3	HEc 137 Marriage and Family Relationships3
BC 132 Business Communication or	
ENG 131 Composition3	•
•	

### Second Year

	Semester 1	Semester 2
HEc 23	02 Quality Food Preparation and Work Simplifi-	HEc 2304 Advanced Quanilty Food Preparation and
	3	Service
	01 Food Service Financial Management 3	MM 132 Free Enterprise I
	05 Supervised Field Experience II	HEc 2415 Supervised Field ExperienceIII
	03 Food Service Management Seminar I3	MM 232 Human Resourses Management
JR 231 J	lob Relations3	HEc 2103 Food Service Management Seminar II 1
	One of the following courses according t	o concentration
Co	nc. 1: HEc 2310 Garde-Manager, HEc 2311 I	Bakery Training, HEc 2312 Saucier Training
	nc. 2: HEc 2313 Clinical Nutrition	
		,
Co	nc. 3: HEc 2314 Child Nutrition and Menu F	lanning
		16
	C. C. II. C. II.	
	One of the following courses according to	o concentration3
Co	nc. 1: HEc 2322 Beverage and Dining Oper	ations and Service or
MN	I 133 Principals of Selling	
	nc. 2: HEc 2323 Community Nutrition	
Co	nc. 3: HEc 2324 School Food Programs and	Government Commodities
		17
	Farmania Oaimasa (UFa)	,
HOL	ne Economics Courses (HEc)	•
1203	Food Purchasing, Handling, and Storage	2:2:0
	Study of procedures for purchasing, handling and storing	ng food in quanity.
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
		the cultural, psychological, sociological and economical
	aspects of wearing apparel.	
1301	Sanitation and Safety in Food Service	3:3:0
1202	Study of sanitation and safety standards and procedures	
1302	Orientation to Food Service Management Systems	3:3:0 stry: organization, marketing, production, personnel, cost
	control.	organization, marketing, production, personner, cost
1304	Food Service Equipment and Layout	3:3:0
-		ent: 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
		sideration given to new fabrics. Includes problems and
	procedures of consumer buying.	
133	Visual Design	3:2:3
		rinciples of design. Develops an appreciation of natural and
/	man-made designs in the daily environment.	
134	Foundations in Home Economics	3:3:0
	· ·	includes contact with professionals in many varied areas of
127	service.  Intimate Relationships: Marriage and the Family	3:3:0
137		on individual development, sexuality, tasks of marriage and
	parenting skills in relation to the family life cycle.	off fildividual development, sexuality, tasks of marriage and
138	Principles of Nutrition	3:3:0
130	-	selection and quality of nutrients in normal and therapeutic
-	diets related to physiological and psychological needs o	
2103	Food Service Management Seminar	1:1:0
	Study of current topics of interest in food service. May b	
2301	Quanity Food Preparation and Work Simplificatio	
	Study of quanity food praparation techniques with empl	
2302	Food Service Financial Management	3:3:0
	Study of principles and procedures in the financial man-	•
2304	Advanced Quanity Food Preparation and Service	3:2:4
	Planning and management of quanty food production.	

	i de la companya de	
2307		3:3:0
	A study of period design in architecture and interiors from antiquity to the present; integration of the past wit	h the
	present in understanding contemporary design.	,
2310		3:2:4
	Principles of preparation of the cold buffet.	
2311 .		3:2:4
	Principles of preparation of doughs, breads, pastries, cookies, and cakes.	
2312		3:2:4
	Principles of preparation of soups, sauces, vegetables, meats, fish, poultry and game.	
2313		3:3:0
,	Study of nutritional needs during illness and for special problems.	
2314		3:3:0
	Study of nutritional needs from birth through adolescence; emphasis on menu planning for groups of children	
231		3:3:0
_	A study of the physical and chemical properties of textiles. Emphasis on consumer selection and care of fabric	
2322		3:2:4
	Emphasis on basic bar operations and dining room service.	
2323		3:3:0
	Ethnic, cultural, socioeconomic, and psychological aspects of food; the techniques of evaluating nutritional	care
	systems in the community.	
2324	•	3:2:4
	Administration of school food program; efficient use of government commodities.	
232		3:2:3
	Study principles of fashion design and flat pattern making. Master pattern is developed to design, draft and cons	truct
	garments.	
	Prerequisite: HEc 132.	
233	Early Childhood Development	3:3:0
	A study of the young child as a basis for understanding the dynamics of child growth and development with emp	hasis
	on education for parenthood.	
234	Introduction to Home and Fashion Retailing	3:3:0
	An introductory study of the contemporary aspects of retailing. A broad view of retailing and its diverse oper	ation
	with emphasis on home and fashion retailing.	
235	Meal Management	3:1:4
	Emphasis on management of time, money and energy in planning menus and purchasing, preparing and ser	rving
	food. Includes study of laws and regulations that affect food supply.	
237	Fundamentals of Interior Design	3:3:3
	· A study of the elements and principles of design as applied to interiors; planning furnishings to meet human ne	eeds;
	introduction to practices and procedures in interior design.	
239	Nutrition	3:3:0
	Study of the nutritional needs of the body and proper selection of foods to meet these needs throughout the	e life
	cycle.	
2415	Supervised Field Experience III	4:A:0
	Minimum of 200 hours supervised field experience in food service management.	
330	Family and Consumer Finance	3:3:0
	Consumer principles and rational decision-making skills for coping with consumer issues affecting families	and
	individuals.	
3305	Components of Interior Design	3:2:3
	Study of building construction and materials, applied surfaces, lighting, furnishings and accessories.	
	Prerequisite: HEc 231 and 237.	
331	Advanced Clothing Construction	3:3:2
	A study of specialized techniques in the construction of a tailored garment. Emphasis is given to new technological	gical
	advancement in fabric.	
332	· · · · · · · · · · · · · · · · · · ·	3:3:0
	A study of developments in nutrient metabolism and their application. Concepts of biological values, bioener	getic
	and nutrition in health and disease.	
	Prerequisite: HEc 239.	
333	•	3:3:0
333	Food Chemistry	J.J.0

carbohydrates, lipids, vitamins and minerals with an emphasis on their metabolic interrelationships in health and

Prerequisite: Chm 141 and 142.

#### Advanced Child Development 334

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.

Prereauisite: HEc 133.

#### 336 Institutional Food Service

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

338

3:3:0

Basic management concepts as applied to individual and professional development.

3:3:0

Philosophy and Principles of Vocational Home Economics 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.

Seminar in Family and Human Relations 339

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/MerchandisingB. Family Relations/Child DevelopmentC. Food/NutritionD. Home Economics EducationE. Housing/Home Furnishings/Interior DesignF. 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

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 bours 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 experi-
	ences 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 veried 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: Edu 331 and 332; and HEc 338.
<b>439</b> :	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, Mechanical Engineering and Mathematics

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 ccomputer science and an undergraduate curriculum in Indistrial 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 them 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.

'The first two years of study are common for all engineering curricula. Each student in the College of Engineering is assigned to a member of the faculty who serves as his or her counselor. Through individual counselors, students will be able to determine their ultimate professional interests as well as obtain help and guidance in academic life.

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	½ unit
3.	Natural Sciences	
	Chemistry	1 unit
	Physics	1 unit
4.	Social Sciences	2 units
5.	Electives	- 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 consultation with 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. 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 extracurricular 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.

### **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

1:1:0

load of 13 smester 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

rirst rear		
First Semester	Second Semester	
Chm 141 Gen Chm	4 Chm 142 Gen Chem	
English Composition	Finglish Composition:	
Mth 148 Calc & Anal Geom I.	4 Mth 149 Calc & Anal Geom II	
Egr 111 Introduction to Engineering		
Egr 114 Egr Graphics I	Phy 140 Introductory Mechanics	
Egr 1121 Introduction to Computers I	PE (1)	
American History	3	
PE (1)		
-11	7	
Sec	ond Year	
366	VIIU I CAI	

#### First Semester Second Semester Mth 241 Calc & Anal Geom III . . . . . . . Egr 231 Dynamics . . .

Egr 230 Statics	Egr 210 Introduction to Computer Aided Design 1
Egr 234 Thermo3	Mth 3301 Lin Alg & Diff Equ
Egr 215 Egr Graphics II	PE (1)
Egr 223 Egr Econ	Specified by Major (2)
PE (1)	
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 enginering major:

Chemical Engineering: Chm 241, ChE 334 Civil Engineering: Phy 222, CE 232, Geo 220

Electrical Engineering: His 232, EE 217, Goy 231

Industrial Engineering: Mth 3370, IE 330

Mechanical Engineering: CE 232, Approved Science Electives (3), IE 212

### Engineering Courses (Egr)

Introduction to Engineering

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

Flow charting, digital computers, BASIC, BASIC programming.

**Engineering Graphics I** 

a faculty member.

Prerequisite: Egr 337.

Introduction to Computers II

Lettering and drafting techniques emphasized.

114

1221

	Flow charting, digital computers, FORTRAN, FORTRAN programming.	
210	Introduction to Computer Aided Design 1:0:3	
	An introduction to computer aided design, elementary graphics, display, data input and output.	
	Prerequisite: Mth 241 or concurrent, Egr 1121, Egr 230.	
215	Engineering Graphics II 1:0:3	
	Descriptive geometry and special problems approved by the instructor.	
	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.	
223	Engineering Economics 2:3:0	
	The time value of economic resources, engineering project investment analysis, effect of taxes on engineering	
	project decisions.	
	Prérequisite: Mth 148,EGR-1121 or EGR-1221:	
230	Statics 3:3:0	
	Statics of particles and rigid bodies. Use is made of basic physics, calculus and vector algebra.	
	Prerequisite: Physics 140.	
231	Dynamics 3:3:0	
	Kinematics of rigid bodies, kinetics of rigid bodies, work and energy, impulse and momentum.	
	Prerequisite: Egr 230 or equivalent, Mth 241 or concurrent.	
233	Circuits I 3:3:0	
	Linear network analysis. Fundamental network laws and methods. Transient response. Sinusoidal steady state	
	analysis and response.	
	Prerequisite: Mth 149, Phy 241, Egr 1221.	
-	Corequisite: EE 217, for EE students.	
234	Thermodynamics 3:3:0	
_	The fundamental laws of thermodynamics; properties of systems solids, gases and liquids and thermodynamic	
	tables.	
	Prerequisite: Phy Heat; Mth 241 or concurrent.	
236	Career Development I 3:3:0	
-	Comprehensive treatment of career-related special assignments and projects, specialization areas under guidance of	
	a faculty member.	
	Prerequisite: Approval of academic dean.	
237	Career Development II 3:3:0	
	Comprehensive treatment of career-related special assignments and projects, specialization areas under guidance of	
	a faculty member.	
	Prerequisite: Egr 236.	
330	Energy and Society 3:3:0	
	Principles and practices of energy engineering are surveyed and used as background for understanding how energy	
	and the environment are related to the industrial, business, economic, political and public sectors of society.	
	Designed for students not enrolled in engineering, the course may not be used for credit toward any engineering	
	degree.	
	Prerequisite: Junior standing.	
336	Career Development III 3:3:0	
	Comprehensive treatment of career-related special assignments and projects, specialization areas under guidance of	
	a faculty member.	
	Prerequisite: Egr 237.	
337	Career Development IV 3:3:0	
	Comprehensive treatment of career-related special assignments and projects, specialization areas under guidance of	
	a faculty member.	
	Prerequisite: Egr 336.	
4101,	4201, 4301, 4401 Special Topics 1-4:A:0	
	An investigation into specialized areas of engineering under the guidance of a faculty member. This course may be	
	repeated for credit when topics of investigation differ.	
421	Data Processing 3:1:3	
	A study of AM, FM and pulse width modulation for telemetry of data and use of analog and digital computers for	
	storing and analyzing the data.	
436	Career Development V 3:3:0	

Comprehensive treatment of career-related special assignments and projects, specialization areas under guidance of

Principles of orthographic projection combined with descriptive geometry to solve space problems graphically.

1:0:3

2:2:0

### **Bachelor of Science — Engineering Technology**

An increasing need is found in industry for those who have a knowledge of basic engineering, and a desire to relate themselves to machines and equipment as operators, maintenance men, testers or as engineering aides. In general, these engineering technologists must have a sufficient knowledge of mathematics to understand some of the procedures being followed by a professional engineer, but the engineering technician need not have the depth of mathematics knowledge required to engage in creative engineering or high-level design.

The five engineering departments, Chemical, Civil, Electrical, Industrial and Mechanical, are authorized to specify a set of courses leading to the Bachelor of Science in Engineering Technology, with an option in the engineering field of the student's choice. Requirements for the Bachelor Degree General, as specified in this bulletin must be satisfied, but the engineering technology student has considerable freedom in the selection of courses subject to the approval of the department head in the engineering field selected.

## Computer Science Department

Department Head: Bobby R. Waldron

106 Liberal Arts Building

Professor: McGuire, Nvlin, Read, Waldron

Assistant Professor: Jordan, Koh

Adjunct Instructors: Bilici, Bolton, Huang, Hansen, Berzsenvi

### **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, complier theory, applications of Computer Science and computer architecture. The program requires 36 hours in Computer Science, 18 hours in an area of specialization, 18 to 20 hours in mathematics, 6 hours in business, 15 to 17 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**

No course can be counted towards the Bachelor of Science degree in computer scneice if a grade of less that a C is made in the course.

Students must make a grade of C or better in all prerequisite courses for a given course 2. before that course may be taken. This applies to both computer science majors and noncomputer science majors who desire to enroll in a computer science course.

Students whose grade point average falls below at 2.0 will be placed on departmental 3. 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.

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.

### 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	Second Semester	
CS 131 Computer Programming I	CS 132 Computer Programming II	
English Composition	English Composition	
Mth 148/Mth 236	Mth 149/Mth 237	
His 231 American History	His 232-2363	
Elective	Elective	
PE/MLb/ROTC1	PE/ROTC	
16-17	16-17	
Secon	d Year	
First Semester	Second Semester	
CS 3302 Introduction to Computer Systems	CS 3301 Pascal	
Statistics	Mth 233 Computational Linear Algebra3	
Gov 2313	Business Elective	
Lab Science	Gov 2323	
English Literature3	Lab Science4	
PE/MLb/ROTC1	PE/ROTC	
17	17	
Third	Year	
First Semester	Second Semester	
CS 3304 COBOL Programming	CS 4302 Operating Systems and Computer Architecture	
CS 4305 Data Structure & Algorithm Analysis 3	13	
Mth/Statistics Elective	CS Elective	
Specialization6	Specialization3	
•	English Lit/Speech	
	Mth 4316/IE 4302	
Fourt		
First Semester	Second Semester	
CS 4307 Organization of Programming Languages 3	CS Elective	
CS Elective	Specialization	
Specialization	Electives	
Electives	•	
Elective (Outside of Engineering)		
15 or 17	Total Samastar House 139	
15 or 17	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 ber 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 140 and Phy 241 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

3:3:0 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.

131 Computer Programming I 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.

132 Computer Programming II 3:3:0 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. Prerequisite: CS 131 and Mtb 1334 or concurrent enrollment in MTH 1334.

133 Introduction to Computers 3:3:0 Utilization of digital computers using both the BASIC and FORTRAN higher level languages to solve business oriented problems. 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 CS 3101 CS 3201 CS 3301 3302 Introduction to Computer Systems 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. 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 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. Operating Systems and Computer Architecture I 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. Data Structures and Algorithm Analysis 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. Techniques of Information Processing and Retrieval 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. 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, termina-

나이, 나아, 노기 없 같아 나오나.

The state of the s

Prerequisite: CS 132, EGR 1221 and Mtb 234 or 438.
4310 Computer Architecture

3:3:0

Representation of information, calculators, storage, addressing, input, output, memory and control. Credit will not be given for both CS 4310 and EE 4310.

Prerequisite: EE 4303 or CS 3305. Assembly language desirable.

tion and flow of entities through storage and processing facilities.

4311 Information Systems I

3:3:0

The analysis, design, installation documentation, maintenance, and modifications of informations systems including both hardware and software.

Prerequisite: CS 3304, 4305.

A continuation of CS 4311 with special emphasis on using state of the art computer technology in maintenance and modification of information systems.

## **Department of Chemical Engineering**

Program accredited by the Accreditation Board for Engineering and Technology.

Department Head: Jack R. Hopper

100 Lucas Building

Second Semester

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 judgment to develop economic ways of using materials and energy for the benefit of mankind. The chemical engineer enters into almost every modern industry. From petroleum to synthetic rubber, from steel to medicines, the chemical engineer engages in design, research, development, production, sales and management. Among the fields in which the chemical engineer is of prime importance are petroleum, petrochemicals, metals, plastics, paints, foods, paper, glass, dyes, synthetic fibers and a host of others.

The Department of Chemical Engineering will permit transfer of up to 78 semester hours from a junior college or a community college, if appropriate courses were taken at the junior (community) college level. The appropriate list of courses for a particular college can be made available upon request.

### **Bachelor of Science — Chemical Engineering**

### **Recommended Program of Study**

First Semester

#### First and Second Year

(See Common Program)

#### Third Year

*ChE 333 Inermodynamics	**ChE 352 Heat Transfer
16	17
Fourt	h Year
First Semester	Second Semester
ChE 442 Mass Transfer	ChE 433 Process Control
ChE 431 Laboratory I	Chm 432 Physical Chm II
ChE 436 Plant Design I	ChE 434 Plant Design II3
ChE 414 Seminar	ChE 435 Advanced Analysis
Elective	***Chm Elective
English Literature	English Lit/Tech Rpt Writ
·	17
. 17	Total Semester Hours 135

#### Notes:

### **Chemical Engineering Courses (ChE)**

2211 Momentum Texasfer

^{*}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.

	Department of Chemical Engineering	159
	tum. Engineering aspects of flow measurement, pressure-drop calculations and pumping requirements are co ered. Same as ME 3311. Che 3311 and ME 3311 may not both be counted for credit. Prerequisite: Egr 234.	nsid
222		3:3:0
332	Principles of conduction, convection and radiation, and their application to the design of heat transfer equip	
		шеш
	and systems.	
333	Prerequisite: ChE 3311, ChE 333	3:3:0
333	Thermodynamics  Application of the First and Second Laws to chemical processes. Thermodynamic properties of pure fluids	
	mixtures. Physical equilibrium.	, and
226	Prerequisite: ChE 334, Egr 234.	2.2.6
334		3:3:0
	Application of mathematics, physics and chemistry to the solution of problems in industrial chemistry. Materia energy balance calculations on processes undergoing physical and chemical changes.	i and
	Prerequisite: Egr 234 or concurrent.	
4111		1:1:0
	Oral presentation of advanced topics or research work in chemical engineering.	
414		1:1:0
	Oral and written presentation of selected topics in chemical engineering from recent technical publications.	
	Prerequisite: Senior standing in Chemical Engineering.	
422		2:0:6
	A continuation of ChE 431. Intensive experimental work in one or more areas studied in ChE 431. May be taken o	on an
	individual instruction basis.	
	Prerequisite: CbE 431.	
431	Laboratory I	3:1:6
	Experiments in heat transfer, mass transfer, fluid flow, reaction kinetics and thermodynamics.	
	Prerequisite: CbE 442 or concurrent.	
4316	Stagewise Processes	3:3:0
	Advanced study of absorption, extraction, distillation and diffusion, with emphasis on multicomponent mixtu	res.
4318	Advanced Distilation	3:3:0
	Principles of multicomponent distillation, including prediction of equilibrium compositions of multicompo	oneni
	mixture.	
4321	Process Economics	3:3:0
	Calculations involving economic evaluation of processes and equipment. Optimization of plants for least co	ost 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 va	rious
	industrial applications.	
4325	Introduction to Nuclear Engineering	3:3:0
	Interaction of neutrons with matter, nuclear properties of materials, shielding and control of reactors, producti	on o
	neutrons by nuclear fission, discussion of the various types of reactors and introduction to reactor theory and de	esign
433	Process Control	3:3:0
	Selection of equipment to measure and control process variables. Analysis of process response to variation	ns in
	process parameters.	
	Prerequisite: ChE 441, 442, Mth 3301.	-
434	Plant Design II	3:1:0
	A continuation of ChE 436, with emphasis on a major design project.	
	Prerequisite: ChE 436.	
435	Advanced Analysis	3:3:0
	Development of mathematical equations for chemical engineering applications. Solution of ordinary and p	
	differential equations	
	Prerequisite: ChE 333,3311,332,441, Mtb 3301.	
436	Plant Design I	3:3:0

Prerequisite: ChE 441; ChE 442 or concurrent. Computer Applications Use of the digital computer in performing process calculations. Advanced techniques of FORTRAN programming. Prerequisite: Egr 1121, 1221, 210, ChE 334, ChE 333 or concurrent.

and specifications. Economic evaluation of processes and equipment.

Application of chemical engineering principles to the design of chemical processes and plants. Equipment design

#### 438 Introductory Petroleum Engineering

3:3:0

The modern techniques of producing oil will be reviewed. Drilling operations, primarily and secondary recovery operations, methods of evaluation, production rate potential and reserve, as well as other aspects of reservoir engineering will be studied.

Prerequisite: Senior/graduate standing.

#### 441 Reaction Kinetics

4.3.3

Chemical equilibrium. Analysis of experimental data to determine reaction rate parameters in homogeneous, heterogeneous, catayltic and non-catalytic reactions. Development of equations for batch, stirred-tank and flow reactors. Application of different equations to process and reactor design.

Prerequisite: ChE 332 or concurrent, ChE 333 or concurrent.

#### 442 Mass Transfer

4:3:3

Principles of diffusion. Simultaneous mass, energy and momentum transfer. Analysis of absorption, extraction and distillation processes.

Prerequisite: ChE 333, 332.

## Department of Civil Engineering

Program accredited by the Accreditation Board for Engineering and Technology.

#### Department Head: Luther A. Beale

2010C Engineering Building

Professors: Beale, Rogers

Associate Professors: Grubert, Kumar, Mantz, Morgan

Assistant Professors: Daniali, Gierlinski

Adjunct: Mittra

**Doctoral Instructor: Ramel** 

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

init a real		
Second Semester		
CE 212 Route Surveying		
CE 311 Geodesy and Mapping		
CE 313 Materials Engineering		
CE 336 Hydrology		
CE 337 Water Utility Systems		
CE 339 Soil Science		
CE 430 Indeterminate Structures		
CE 439 Structural Steel Design		

18

	Fourt	h Year
	First Semester	Second Semester
Electiv	e-Eco-Princ and Policies	His. 232 American History
	11 American Government	Gov 232 American Government
	Soil Engineering	CE 411 Seminar
	Reinforced Concrete Design	CE 413 Photogrammetry
	Civil Engineering Management	CE 431 Hydraulics II         3           Elective Literature         3
	Contracts and Specifications	Elective CE Design
	e Speech	
	18	17 Total Semester Hours 139
	. 18	Total Semester Hours 139
Civ	il Engineering Courses (CE)	
210	Civil Engineering Management	1:1:0
	Role of the civil engineer as a manager and executive	director of civil engineering design, project administration and
	construction. Organizations, policies, objectives, mo	otivation, staffing, budgeting, information systems, computers,
<i>:</i> '	equipment, proposals, standard practices, planning a	and review are topics of discussion.
211	Engineering Measurements	1:0:3
	Introduction to basic principles of surveying. Use of e	quipment for measurement of horizontal and vertical distances
	and angles. Computer utilized in calculations.	
212	Route Surveying	1:0:3
	Field practice and calculations associated with design	and layout of highway curves including vertical and horizontal
	alignments. Transition spirals. Surveying for transmi	ssion systems. Computer utilized.
	Prerequisite: CE 211.	
213	Experimental Stress Analysis	1:0:3
	Physical testing of materials. Experimental determ	ination of deformations and stresses using electronic strain
	gauges. Study of tension members, beams, columns	and torsion members. Elastic and inelastic instability consid-
	ered.	•
	Prerequisite: CE 232 or concurrent.	
232	Mechanics of Solids	3:3:0
		axial stress-strain relationships. Indeterminate systems. Study of
	stresses due to axial, torsional and bending effects.	Buckling of columns:
	Prerequisite: Egr 230.	
310	Cost Estimating and Economy	1:1:0
		on. Optimization of design: economic considerations utilized in
	engineering.	102
311	Geodesy and Mapping	1:0:3
	Advanced surveying principles applied to horizontal Prerequisite: CE 212.	and vertical control for mapping.
312	Research	1:0:3
312		oposal writing for engineering projects. Principles of technical
	writing and communication.	oposat writing for engineering projects. Timespies of teerinaes
313	Materials Engineering	1:0:3
5-5		ineering design. Material types and designations covered by
	standard specifications including ASTM. Reports req	
	Prerequisite: CE 213.	
331	Environmental Science	3:2:3
	Introduction to the hydrologic cycle and the chemis	try 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, chem	ical and biological analysis of water and waste water.
	Prerequisite: Chm 142.	
334	Structural Mechanics	3:2:3
	Analysis of loadings for bridges and buildings. Dynar	nic effects of moving loads. Influence lines. Shear and moment
	diagrams, analysis of indeterminate structures. Intro	duction 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 studie	s. Calibration of flow measuring devices. Flow characteristics of
	open channels and closed conduits Boundary Layer	Theory.

Precipitation, surface water, infiltration, sub-surface water. Analysis of rainfall and runoff data. Collection studies.

Prerequisite: Egr 231.

Hydrology

336

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	Soll 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
430	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.
621	•
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.
4210	Prerequisite: CE 335.  Soil-Structure Interaction 3:2:3
4310	
	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 under-
	ground structures. Computer techniques are employed.
4212	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.
422	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.
434	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.
42E	Prerequisite: CE 339.  Water and Waste Water Treatment 3:3:0
435	
	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. Funda-
	mentals 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 prostructed concrete
	Introduction to prestressed concrete.
	Prerequisite: CE 334.
439	Prerequisite: CE 334. Structural Steel Design 3:2:3
439	Prerequisite: CE 334.
439	Prerequisite: CE 334. Structural Steel Design 3:2:3

## 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 advaced 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 1111, 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	Second Semester
EE 318 Electronics Laboratory	EE 319 Electric Machinery Laboratory1
EE 331 Circuits II	EE 3201 Digital Laboratory
EE 333 Electronics I	EE 332 Circuit Design
EE 3301 Electrical Analysis	EE 336 Electrical Machinery/Transformers3
EE 3305 Logical Design of Switching Systems 3	EE 337 Electromagnetic Fields I
Phy 335 Modern Physics	EE 431 Electronics II
	*Math Elective
. 16	•

Corequisite: EE 319.

Fourth Year Second Semester First Semester English Literature ..... Spc or Technical Writing. . . . . . . . . . . . . Gov 232..... 17 Total Semester Hours 135 Notes: * From list of approved courses: Mth Elective: 4202, 4203 ** Hum/Soc Elective: (a) Any humanities, phiolsophy, 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 3 hours. **Electrical Engineering Courses (EE)** 1:0:3 Circuits Laboratory Experience in the use of elementary electrical equipment and elements, including the oscilloscope. Corequisite: Egr 233. 1:0:3 318 Electronics Laboratory Design of power supplies and amplifiers using diodes, transistors, thysistors and linear integrated circuits. Prerequisite: EE 217. Corequisite: EE 333. 319 **Electric Machinery Laboratory** 1:0:3 Three phase circuits, DC and AC motors and generators; transformers. Prerequisite: EE 217. Coreauisite: EE 336. 2:1:3 3201 Digital Laboratory Testing and design of digital circuits; introduction to small computer hardware and software. Prerequisite: EE/CS 3305. 3:3:0 3301 **Electrical Analysis** Application of the digital computer to analysis and design of electrical systems using numerical methods. Prerequisite: Mth 3301, Egr 233, 2331 or 1221. **Logical Design of Switching Systems** 3:3:0 Switching algebra, Formulate and manipulate switching functions. Combinational networks. Flip-flops, Sequential networks. Prerequisite: Egr 233. 331 Circuits II 3:3:0 Power calculations, polyphase circuits. Frequency response, resonance, magnetically coupled circuits, two port networks. Fourier series, Fourier and Laplace transform application. Prerequisite: Egr 233. Coreauisite: Mth 3301. 332 Circuit Design 3:3:0 Circuit design concepts using frequency domain. Pole-zero characterization of system response. Synthesis of passive and active networks. Prerequisite: EE 331. 333 Electronics I 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. Prerequisite: Egr 233, or Pby 241 with permission of the instructor. Corequisite: EE 318 for EE students. 335 3:3:0 **Direct Energy Conversion** 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. Prerequisite: Egr 233, 234. Corequisite: EE 333. 336 **Electric Machinery/Transformers** 3:3:0 A study of transformers and conventional electric machinery, DC motors and generators, synchronous machines and induction motors. Prerequisite: EE 331.

Indepth study of semiconductor device characteristics, BJT's, FET's, SSI logic and linear integrated circuits.

Nuclear reaction mechanics; radioactivity; neutron reactions; fission products, decay; reactor kinetics, systems;

Prerequisite: EE 333, 3305.

**Introduction to Nuclear Power** 

radiation, dose limits, shielding. Prerequisite: Egr 234 and Phy 335.

4311

3:3:0 432 **Electronics III** 

Analog systems with semiconductor elements. Frequency response, feedback and feed forward amplifier design, power electronic devices with regulated power supplies.

Prerequisite: EE 431. 436 **Control Engineering** 

3:3:0

Transfer functions; state variables; time response; frequency response and stability. Prereauisite: EE 332.

438

Instrumentation

Unified methods for the design of signal conditioning circuits between sensors and computers. Accepted practice for sensor based microporcessor and minicomputer data acquisition and processing systems. Instrumentation amplifier circuits.

Prerequisite: EE 333, 3305.

## Department Of Industrial Engineering

Program accredited by the Accreditation Board for Engineering and Technology.

Department Head: Victor Zaloom

2011 Cherry Building

Professors: Brennan, Gates, Zaloom Associate Professor: Carruth, Thomas

Assistant Professor: Chu

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 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 BSIT 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 BSIT program considering working toward a B.S. in Industrial Engineering at any time in the future should so inform his or her advisor, since certain adjustments in the BSIT program will make it easier to obtain the BSIE.

# Bachelor of Science — Industrial Engineering Recommended Program of Study

#### First and Second Year

(See Common Program)

#### Third Year First Semester Second Semester IE 3303 Economic Analysis and Design..... IE 434 Materials Science and Manufacturing Processes 3 IE 432 Statistical Decision Making for Engineers. . . . . 3 Gov 232 Introduction to American Government II . . . . 3 Gov 231 Introduction to American Government I. . . . . 3 18 Fourth Year First Semester Second Semester 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

, <b>F</b>	irst Year
First Semester	Second Semester
Technology Courses	12 Technology Courses
Eng 131 Composition(1)	.3 English Composition(1)
HPE 111/MLB 124/AER 121	2 . HPE 112/AER 122
16-	16-17
Se	cond Year
First Semester	Second Semester
Technology Courses	12 Technology Courses
Technology Course or Elective	.3 Technology Course or Elective
HPE 221/MLB 124/AER 221	
•	17

maximum productivity.

Prerequisite: Mth 1341 or Mth 234.

For non-engineering students.

Prerequisite: Chm 143 or equivalent.

**Manufacturing Materials and Process** 

Functional and economic selection of meterials and processes in manufacturing.

339

Third Year Second Semester First Semester Mth 1341 Elements of Analysis ...... Mth 1334 College Algebra..... Chm 143 Introductory......4 Gov 232 Introduction to American Government II . . . . 3 Gov 231 Introduction to American Government I.....3 English Literature (2) 3 IE 212:Production and Fabrication Processes ........1 Elective I (3)..... 15. 4 1 digital and the second of the 1 7 2 Table 1 4 9 **Fourth Year** ت يا سيرون First Semester Second Semester Mth 234 Elementary Statistics......1 IE 339 Materials Science and Manfacturing Processes. .3 Eng 4335 Technical Report Writing (4)......3 15 Total Semester Hours 131-133 (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) SPC 331 may be substituted with approval of advisor. **Industrial Engineering Courses (IE) Production and Fabrication Processes** 1:0:3 Machinery, welding, casting, forming and joining operations on materials of engineering importance. Demonstrations, lectures and laboratory exercises. 311 IE Seminar I 1:1:0 Identifying and analyzing Industrial Engineering problems. Industrial Engineering 330 3:3:0 Introduction to Industrial Engineering, its tools and techniques. 3301 Survey of Industrial Engineering 3:3:0 The orgins and evolution of Industrial Engineering. The problem solving techniques available and their applications. For non-engineering students. 3303 **Economic Analysis and Design** 3:3:0 Capital budgeting. Depreciation and income taxes. Decisions under uncertainty. Prerequisite: Egr 223, MTH 3370 333 Engineering Economy 3:3:0 Economics applied to the evaluation of engineering proposals. The effects of depreciation, taxation and interest Not open to students majoring in engineering. Prerequisite: Mth 1341. 335 Accounting for Engineers 3:3:0 Introduction to principles of bookkeeping and cost accounting. Use of cost records to help the engineer/executive make decisions. 338 Work Study 3:2:3 Determination of contents, techniques and times required for various tasks. Design of jobs and workplaces for

3:3:0

222 Cherry Building

	Department of Industrial Engineering	169
44.4		
411	IE Seminar II	1:1:0
420	Goal-setting, decission-criteria, professional practice, professional registration, research and publication.	
430	Quality Assurance and Control	3:3:0
	Assurance that products perform as intended. Reducing or eliminating defective output.	
4201	Prerequisite: Mth 3370.	
4301	Quality Control Applications	3:3:0
	Quality assurance and the application of statistics to the control of quality. Control charts, acceptance san reliability and the role of standards in the quality function.	ipiing
	For non-engineering students.	
431	Computer Applications in Industrial Engineering	3:3:0
	Open ended problems in the areas of production control, economic analysis, scheduling, inventory control other traditional areas of Industrial Engineering.	ol and
4313	Human Engineering	3:2:3
	The engineering design of tools and equipment to meet the physiological needs of human beings.	
4315	Organization and Management	3:3:0
	The theory of organization and management. How the executive functions to achieve the organization's goals.	
4316	Industrial and Product Safety	3:3:0
	Loss control engineering. Mandatory and voluntary standards. Product liability.	
	Prerequisite: Senior standing.	
432	Statistical Decision Making for Engineers	3:3:0
	Analysis of data to help the engineer/executive make decisions. Evaluation of performance claims.	
	Prerequisite: Mth 3370,MTH 3301, Junior standing in engineering	
434	Materials Science and Manufacturing processes	3:3:0
	Basic principles underlying the behavior of engineering materials and methods of processing these material	5.
	Prerequisite: Chm 141 or equivalent	
435	Production and Inventory Control	3:3:0
	Techniques for planning and controlling production and inventories. Modern materials requirements plann	ing.
	Prerequisite: Mth 3370, IE 330.	
436	Design of Production Facilities	3:1:6
	Use of the principles from other IE courses to determine the location, layout, needed equipment and facilities	es and
	other factors in facilities design.	
	Prerequisite: IE 212, 330, 3303, 338, 434.	
437	Operations Research	3:3:0
	An introduction to the construction of mathematical models of organizational systems to aid executives in m	naking
	decisions.	
	Prerequisite: Mth 3370, IE 333.	

## Department of Mechanical Engineering

Program accredited by the Accreditation Board for Engineering and Technology.

Department Head: Otto G. Brown

Professors: Brown, Martinez, Mei, Young

Associate Professor: Bruyere

Assistant Professor: Nguyen

Adjunct Associate Professor: Boughton Adjunct Instructors: Adams, Craigue Visiting Lecturer: Chattopadhyay

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 of transportation, central power plants, nuclear reactors, specific and complex and challenging engineering endeavors.

The Department of Mechanical Engineering will assist profiles from junior or community colleges in planning courses to fit the number curriculum at Lamar University. The appropriate list of courses for a puricular junior college can be obtained from the Department of Mechanical Engineering.

### **Bachelor of Science — Mechanical Engineering**

### Recommended Program of Study

#### First and Second Year

### (See Common Program)

### Third Year

First Semester	Second Semester
ME 330 Kinematics3	ME 321 Instrumentation and Testing Laboratory 2
ME 3311 Momentum Transfer	ME 331 Transport Theory
ME 338 Thermodynamics II	ME 332 Elements of Mechanical Design I3
Mth Elective	ME 334 Engineering Analysis I
American History3	EE 333 Electronics I
English Literature3	English Literature3
17	
T)41	L 37
rourt	h Year
First Semester	Second Semester
ME 421 Engineering Systems Design	ME 4316 Engineering Design Project 3
ME 4313 Thermal Systems Design	ME 4317 Engineering Analysis II
ME 4319 Materials Science	ME Elective
ME 4323 Elements of Mechanical Design II 3	Gov 232 Introduction to American Government II 3
*ME Elective	Free Elective
Gov 231 Introduction to American Government I 3	ME 411 Seminar
17.	. 16
	Total Semester Hours 135

^{*}At least 3 hours must be an ME design elective course.

### Mechanical Engineering Courses (ME)

#### 321 Instrumentation and Testing Laboratory

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.

Prerequisite: ME 5511 and ME 556 or paratiel 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** plications.

Theory of conduction and potential flow, radiation and convection with engineering techniques and applications. *Prerequisite: Mtb 3301 and ME 3311.* 

#### 3311 Momentum Transfer

3:3:0

2:1:3

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.
411	Prerequisite: Mth 3301 and Egr 234. Seminar 1:1:
711	Seminar  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:
	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	
	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.
1246	Prerequisite: ME 334, ME 338; ME 4313 in parallel.
4316	Engineering Design Project 3:1:(
	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.
4317	Prerequisite: ME 421, 4313. Engineering Analysis II 3:3:0
1317	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
-5-7	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:
	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-cyclinder 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:Mary K. Bell

205 Lucas Building

Director of Mathematics Instruction: Sam M. Wood, Jr.

**Professors:** Berzenyi, Crim, Stark, Vanzant

**Professor Emeritus:** Latimer (1979)

Associate Professors: Baj, Bell, Brookner, Brenizer, Dingle, Laidacker, Price, Wood Assistant Professors: Green, Harvill Kohli,, Lauffer, Lee, Parrish, Read, Saet, Thames

Visiting Professors:Baker, Zaita

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 are designed 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 individual advisor to assist with the student's schedule 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

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 generally go on to graduate work in Mathematics or allied fields such as Physics, Computer Science, Statistics or into teaching.

Programs in the mathematical sciences prepare students for careers in a variety of fields. In addition to teaching in elementary, middle and senior high schools, students can prepare for opportunities 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 of the present day cannot be overemphasized. Many phenomena of nature can only be understood adequately when translated into the language of mathematics. In a day when inventions are sought almost on schedule, a student majoring in science or engineering at a university may expect to find an emphasis on the basic tool of mathematics.

Undergraduate education in mathematics has, and will continue, to undergo substantial changes during this decade. The computer is primarily responsible for this. High speed computing machines have for many years been an important research tool. However, what is particulary striking about the 1980's is the extent to which computers also are being used for other tasks in 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 advanced programming languages as well as advanced software techniques, and finally, a mastery of important techniques in applied mathematics such as operations research and statistics.

People with these qualifications are needed in virtually all industrial and governmental settings. Those with an orientation toward engineering are needed to maintain and develop the mathematical software associated with computer-aided design. Moreover, many engineering problems are now simulated and solved on computers and there is a need for mathematicians to develop and maintain computer algorithms for these problems. Those whose interests lie primarily in industrial management are especially valuable in such diverse activities as industrial control, market forecasting and computer-based accounting systems. 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 134, 1334, 1335, 148 or 236. Entrance into all other mathematics courses is determined by the counselor 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:

- 18 hours of professional education including Edu 331, 332, 338, 438 and 462. 1.
- Minor to be expanded to include an approved 24 hour teaching field other than mathematics (Consult this bulletin—College of Education).
- CS 131 and Mth 148, 149, 233, 234.
- 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
- 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

## **Bachelor of Arts — Standard Curriculum**

## First Year

First Semester	Second Semester		
Mth 148 Calculus and Analytic Geometry I4	Mth 149 Calculus and Analytic Geometry II		
English Composition	English Composition		
Science			
	Science		
Elective	Elective		
PE/MLb 124/ROTC	PE/ROTC		
. 15	15		
Secon	d Year		
First Semester	Second Semester		
Mth 241 Calculus and Analytic Geometry III 4	Eng Literature (1)		
English Literature3	His Soph American History		
His Soph American History	Foreign Language 132		
Foreign Language 1313	Mth Elective6		
Mth 233 Computational Linear Algebra	PE Activity		
PE Activity	12160119		
17	16		
Third Year			
First Semester	Second Semester		
Foreign Language 231	Foreign Language 232		
Gov 231 Introduction to American Government I3	Gov 232 Introduction to American Government II 3		

First Semester	Second Semester
Foreign Language 231	Foreign Language 232
Gov 231 Introduction to American Government I 3	Gov 232 Introduction to American Government II 3
Mth Advanced Elective	Mth Advanced Elective
Minor3	Minor
Elective (2)	Elective
18	15 [,]

### Fourth Year

First Semester	Second Semester
Mth Advanced Elective	Mth Advanced Elective
Minor6	Minor6
Elective	Elective
. 15	15

#### Notes:

^{*}To be chosen from Phy 140/241, or 141/142 Chem, Bio or Geo.

⁽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**

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## (Minimum) 126 hours

#### General requirements: (Minimum) 33 hours Same as general requirements for Bachelor of Arts except there is no foreign language requirement. Major requirements: 48 hours Mth 148, 149, 241 h Mth 233, Mth 238 Mth Electives—24 semester hours—21 of which must be 300/3000 level or above including Mth 3311 CS 131, CS 132 d. Professional Electives: Courses (to be approved by the department) in the Colleges of Engineering, Science or Business. **Electives:** 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 Second Semester Mth 149 Calculus and Analytic Geometry II . . . . . . . 4 Second Year **First Semester** Second Semester Mth 241 Calculus and Analytic Geometry III . . . . . . . 4 Mth 238 Introduction to Applied Mathematics......3 Third Year First Semester Second Semester Gov 231 Introduction to American Government I. . . . . 3 Gov 232 Introduction to American Government II . . . . 3 Fourth Year Second Semester **First Semester**

(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**

This is a professional program that is terminal in the sense that the student will be prepared 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

⁽²⁾ Six hours of electives must be chosen outside the major field.

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	University Requirements
Calculus	English Composition and Literature
Physics (Phy 140 and Phy 241)	Sophomore History6
Chemistry, Biology or Geology 141	PE/MLb/ROTC (minimum)
Mth 233 Computational Linear Algebra	Gov 231, 232 Sophomore Government
Mth 331 Differential Equations	Electives (chosen outside of the major college) 6
CS 131 and 132 Computer Science 6	
Mth 3370 & 437 Probability and Statistics6	
Mth 4315 Numerical Analysis	
Mth 238 Introduction to Applied Math	
Mth 3321 Finite Mathematics	
Mth 3324 Practicum	
52 or 54	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, permits 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/IE 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:

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:

IE 4315 Organization and Management

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.

#### 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 (Preferred Egr 132 instead of Phy 140) EE 3301 Electrical Analysis (Mth 241, Egr 233)

Phy 222 Vibrations, Sound and Light

#### **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 Phy 222 Vibrations, Sound and Light (Phy 241)

#### Mechanical Engineering Required Courses:

Egr 230 Statics

Egr 233 Circuits I (Phy 241, Mth 149)

ME 3311 Momentum Transfer (Egr 234)

Egr 234 Thermodynamics (Phy 241, Mth 241) **Mechanics Option:** 

Egr 231 Dynamics (Egr 230, Mth 149)

CE 232 Mechanics of Solids (ME 231, Egr 230)

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.

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## Civil Engineering

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#### Required Courses:

CE 211 Engineering Measurements

Egr 231 Dynamics (Egr 230, Mth 149)

CE 232 Mechanics of Solids (ME 231, Egr 230)

### **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

Phy 222 Introductory Physics-Vibrations, Sound and

Phy 212 Introductory Physics-Laboratory on Vibrations

and Waves 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 Phsyiology (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)

#### 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 material 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 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

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 my 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
Core Program	51 or 54
Mathematical Sciences Electives	:
Electives	
Humanities and Social Science Electives	6
Professional Technical Electives	. :

# **Mathematical Sciences — Statistics Concentration**

**Degree Requirements** 

Dogree Hequitorite
University requirements
Core Program*
Mathematical Sciences
Electives
Humanities and Social Science Electives
Professional Technical Electives
. •

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	Second 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/ROTC 1	†Eng Composition
16 or 17	17 or 18
Secon	d Year
First Semester	Second Semester
Phy 241 Introductory Physics, Heat, Electricity and Magnetism	English Literature (1)       3         Mth 233 Computational Linear Algebra       3         Mth 3321 Finite Mathematics       3         Chem/Bio/Geo 141       4         ***Elective       3         **PE/ROTC       1
. 15	. 17
Third	Year
First Semester	Second Semester
Gov 231 Introduction to American Government I	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	15
Fourt	ı Year
First Semester	Second Semester
Mth Sci Elective	Mth 3324 Practicum in Applied Mathematics       .3         Mth Sci Elective       .3         Humanities and Social Science Elective       .3         Professional Elective       .3         ***Elective       .3
15	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.

[&]quot;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	Second Semester
Eng Composition       3         †His 231/236       3         Mth 148/236 Calculus       4 or 3         CS 131 Computer Programming I       3         Humanities and Social Sciences Elective       3         PE/MLb/ROTC       1	English Composition
	**PE/ROTC1
16 or 17	17 or 18
Second	
First Semester	Second Semester
Phy 241 Introductory Physics, Heat, Electricity, Magentism	English Literature         3           Mth 233 Computational Linear Algebra         3           Mth 3321 Finite Mathematics         3           Minor         3           Chem/Bio/Geo 142         4           **PE/ROTC           17
Third	
First Semester	Second Semester
Gov 231	Gov 232
Fourth	ı Year
First Semester	Second Semester
Mth 4317 Statistical Methodology       3         Mth 4321 Least Square Regression Analysis       3         CS Elective       3         Minor       3         ***Elective       3         15	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.

# Mathematics Courses (Mth)

1,714	Tigonomea y - zectare			3.3.0
	Study of trigonometric functions and identities, inverse functions, graphs are	nd applications	of trigonor	netry. Only
	recommended for students who have had no trigonometry in high school.	,		
	Prerequisite: Mth 1314 or its equivalent.			
1313	Individualized Tutorial Computational Skills			3:3:0

Study of basic concepts and operations involved in computations. Problems from business, science, metrication, construction and geometry. Not recommended for students who have received credit for a course for which this or its equivalent is a prerequisite.

### **Individualized Tutorial Basic Algebra**

Review of skills and concepts of basic algebra. Signed numbers, linear equations and systems, quadratics, radicals and logarithms.

Recommended for those who need 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. When used as a prerequisite, a grade of "B" or better is recommended.

^{*}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.

Prerequisite: Mth 149 or 237.

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.**
1226	
1336	<b>Survey of Mathematics</b> 3:3:0  Mathematics history, problem solving, logic and other selected topics of current interest. Recommended for degrees
	with undesignated mathematics requirements.
	Prerequisite: Mth 1334 or its equivalent.
134	Mathematics for Business Applications 3:3:0
31	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.
1342	Introduction to Mathematics of Finance 3:3:0
	Simple and compound interest as applied to promissory notes, perpetuities, annuities, depreciation and bonds.
	Calculators will be used.
	Prerequisite: Mth 1334 or Mth 134 or the 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.
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.
- /-	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.
140	Prerequisite: Mth 1335 or its equivalent.  Calculus and Analytic Geometry II 4:4:0
149	<b>Calculus and Analytic Geometry II</b> Methods of integration, differential equations, polar coordinates and vector analysis.
	Prerequisite: Mtb 148 or its equivalent.
233	Computational Linear Algebra 3:3:0
-00	Algorithmic approach to basic problems of linear algebra, solution of linear equations, linear programming and the
	simplex method.
	Prerequisite: Mth 149 or Mth 237 may be taken concurrently.
234	Elementary Statistics 3:3:0
	Introduction to computational statistics data, measures of central tendency and variation. The normal distribution,
	correlation and sampling.
	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.
241	Prerequisite: Mth 134, 1334 or 1335 or their equivalents.  Calculus and Analytic Geometry III 4:4:0
241	
	Vectors, parametric equations, functions of several variables, partial derivatives, multiple integrals, functions of complex variable.
	Prerequisite: Mth 149 or equivalent.
330	Principles of Mathematics 3:3:0
330	Introduction to some modern mathematical topics. Symbolic logic, development of the number system, groups,
	fields, sets and function theory.
	,

1-3:1-3:0

3301	Differential Equations and Linear Algebra 3:3:0
	Ordinary differential equations. Laplace transforms, linear algebraic equations, matrices, eigenvalues, systems of
	differential equations.
	Prerequisite: Mtb 241.
331	Ordinary Differential Equations 3:3:0
	Solution and modeling techniques, existence and uniqueness, numerical procedures, linear euqations 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 with primary emphasis on the needs of the elementary teacher.
2245	Prerequisite: Mtb 136.
3315	Number Theory for Education Majors 3:3:0
	A development of the elementary theory of numbers with emphasis on the needs of teachers.
2245	Prerequisite: Mtb 136.
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.
2210	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
3321	Linear programming, matrix game theory, social science models, transportation models, graph theory models.
	Prerequisite: At least one course from Mtb 148, 233, 236, 238.
3322	Computability 3:3:0
3322	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 oceanogra-
	phy.
	Prerequisite: Consent of department bead 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 other geometrics as time allows.
	Prerequisite: Mtb 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.
2270	Prerequisite: Mth 233.
3370	Introduction to the Theory of Statistical Inference 3:3:0
	Data, organizing and describing data, probilility and statistical inference.
220	Prerequisite: Mth 241.
338	Advanced Calculus  3:3:0  The control of function limits are control of functional infinite control of function limits are control of function limits are control of functional infinite c
	The concept of a function, limits sequences, continuity, differentiability, the Riemann integral, infinite series, Taylor
	series. Prerequisite: Mth 241

Special advanced problems in mathematics to suit the needs of individual students. Course may be repeated when

4131, 4231, 4331 Special Problems

the topic varies.

433

435

4351

437

438

Linear Algebra

**Introductory Topology** 

Prerequisite: Mth 3311.

and national monuments.

Prerequisite: Mth 3370.

Statistical Methods

Prerequisite: Mth 233, 149 or Mth 237.

**Cultural Approach to Mathematics** 

Mathematical Theory of Probability

nents and open coverings. Some applications to analysis.

concepts rather than the rigorous proofs of the theorems themselves.

(CRD), randomized complete block design (RCBD), and factorial designs.

Prerequisite: Permission of the instructor or Mth 437.

4142,	4242, 4342 Special Topics in Analysis 1-3:1-3:0
٠.	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: Mtb 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
-5-5	Approximations, interpolations, finite differences, numerical integration, curve fitting.
	Prerequisite: Mtb 139 or 149 or Mtb 237 and CS 132 or Egr 133 or its equivalent.
4316	Mathematical 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.
	Proceeditisite. Mth 241 and either Mth 331 or any 400 level mathematics courses

Linear spaces, linear transformations, matrices, determinants, eigenvalues, eigenvectors, inner product spaces, adjoint spaces, self adjoint transformations, quadratic forms, principal axis transformations, spectral decomposition.

Topological, metric, product, connected and compact spaces. Continuity, homeomorphism, sub-spaces, compo-

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. Resources are Italy with its vast heritages as found in its museums

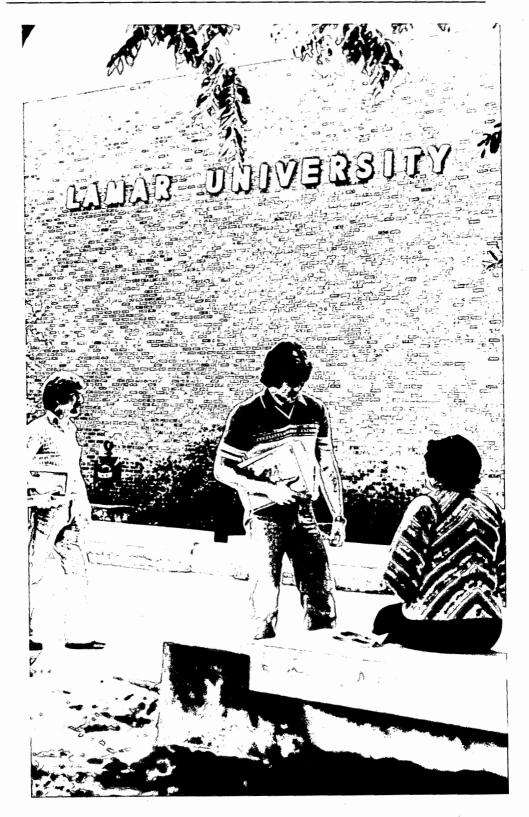
Single event probabilities; permutations/combinations; discrete probabilities density, binomial, Poisson and normal functions; expectations/variances; Central Limit theorem; Chi-square/F-distributions; (emphasis placed on use of

Sampling; introduction to least squares/regression analysis; experimental designs, completely randomized design

3:3:0

3:3:0

3:3:0



# 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 College also offers several programs in the applied arts designed to equip the student, as practically as possible, for vocations in the fields of advertising, 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
  - Graphic Design
  - Studio Art
- 2. Bachelor of Science Art Major
  - Plan I Graphic Design
  - Plan II Studio Art
  - Plan III All Level Teacher Certification
  - Secondary Art
- 3. Bachelor of Music Major in:
  - All Applied Fields
  - Theory and Composition b.
  - Music Education
- Bachelor of Science Music Major, Teacher Certification all levels
  - Instrumental Major
  - b. Piano Maior
  - Vocal Major C.
  - Theory and Composition
- Bachelor of Science Speech Major (or Communication under Plan III)
  - Plan I Teacher Certification in Speech, Theater or Journalism
  - b. Plan II Teacher Certification in Speech and Hearing Therapy or Deaf Education
  - Plan III Communication Degree
  - Plan IV Speech and Hearing Therapy, Public Address, Theater or Communication
- 6. Bachelor of Arts Speech major
  - Plan I, II, or IV listed above
  - Bachelor of General Studies Fine Arts

Descriptions of graduate programs leading to the Master of Music or Master of Music Education degree 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

Appreciation of Art and Music

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.

131 Appreciation of Music and Theater

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 jass, 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.

132 Appreciation of Theater and Art 3:3:0

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.

231 Studies in Italian Culture

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

Summers only. (LU-Rome only.)

331 Experiential Learning in the Arts 3:0:9

Design and implementation of experiential learning study project under guidance of faculty advisor. Provides opportunity to apply classroom learning to actual experiences in community art programs. May be repeated for credit.

335 Topics in Museum Studies

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.

439 Seminar in the Fine Arts

A study of aesthetics, i.e., the theory of fine arts and people's response to them particularly in reference to the visual arts, music and theater.

## Bachelor of General Studies — Fine Arts

The Bachelor of General Studies Fine Arts degree offers a program of interest to those who desire a wide knowledge of the arts without the intent of becoming practicing professional artists and teachers of the arts. Thus, the program offered through this degree resists any tendency toward specialization within the arts. It does provide opportunity, however, for an individual to construct 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	Art 139 Art Appreciation
MLt 122 Music Literature2	His 234 American History: Arts in America3
MEd 131 Elements of Music	MLt 122 Music Literature
English Composition	English Composition
Mth/Sci	Mth/Sci3-4
PE Activity	PE Activity
15-16	15-16
-2	
2	

Second	a Year
First Semester	Second Semester
MLt 113 Pop Music Survey	Art 236 Art History II
Art 235 Art History Survey I	Eng Literature/Spc/Foreign Language
Eng 2311 English Literature	Gov 232 Introduction to American Government II 3
Gov 231 Introduction to American Government I 3	Mth
Mth/Sci3-4	His 231 American History
PE Activity	PE Activity
14-15	16-17

Third	i Year
First Semester	Second Semester
MLt 333 Music History I	MLt 334 Music History II       3         The 334 Stagecraft       3         Hum 331 Experiential Learning       3         Elective       3         Elective       4         16
16	
Fourt	h Year
First Semester	Second Semester
The 436 History of Theater	Hum 439 Seminar Fine Arts
Hum 331 Experiential Learning	Elective
Elective	Elective
Elective	Elective
Elective	
15	12

# Department of Art

Department Head: Robert C. Rogan 107B Art Building

Professor: Newman, Rogan

**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	Second Semester
Art 131 Drawing I	Art 132 Drawing II
Art 133 Design I	Art 134 Design II
Art 135 Art Appreciation	Hum 131 Appreciation of Music and Theater3
English Composition	English Composition
PE Activity1	PE Activity
Mth/Laboratory Science 3-4	Mth/Laboratory Science
16-17	16-17

15.

Secon	d Year
First Semester	Second Semester
Art 231 Drawing III	Art 232 Drawing IV
Art 233 Design III	Art 236 Art History II
Art 235 Art History Survey I	Art 237 Graphic Design I
PE Activity	PE Activity
Eng Literature	Eng Literature/Spc/Foreign Language
Mth/Laboratory Science	Mth/Laboratory Science
17-18	17-18
Third	Year*
First Semester	Second Semester
Art 239 Photography I	Art 3393 Photography II
Art 3313 Illustration I	Art 3343 Graphic Design III
Art 3333 Graphic Design II	Art History Elective
Sophomore American History	Sophomore American History
Gov 231 Introduction to American Government I3	Gov 232 Introduction to American Government II 3
Dft 133 Introduction to Drafting	Eco 233 Principles and Policies
18	18
Fourti	
First Semester	Second Semester
Graphic Design Elective	Art 4343 Problems in Graphic Design
Art 3355 Printmaking 1	Art Elective
Art 3316 Watercolor I	Art Studio Elective
Art History Elective	Art History Elective
Free Elective	Free Elective
15	15
*Art 235-236 prerequisite to all Art 300-400 level courses for art majo	ors.
Specialization in Studio Art	
First	Year
First Semester	Second Semester
Art 131 Drawing I	Art 132 Drawing II
Art 133 Design I	Art 134 Design II
Art 135 Art Appreciation	
	Hum 131 Appreciation of Music and Theater
English Composition	English Composition
PE Activity	PE Activity
Mth/Laboratory Science	Mth/Laboratory Science
16-17	16-17
Secon	d Year
First Semester	Second Semester
Art 231 Drawing III	Art 232 Drawing IV
Art 233 Design III3	Art 234 Sculpture I
Art 235 Art History Survey I	Art 236 Art History II
PE Activity	Art 238 Painting I
English Literature	PE Activity
Mth/Laboratory Science	Eng Literature/Spc/Foreign Language
17-18	. 17
Third	
First Semester Art 3315 Drawing V	Second Semester
	Art 3317 Painting II
Art 3316 Watercolor 1	Art 3325 Drawing VI
Art 3355 Printmaking I	Art History Elective
Sophomore American History	Sophomore American History
Gov 231 Introduction to American Government I3	Gov 232 Introduction to American Government II
Mth/Laboratory Science	
	<del></del>

Art Studio Elective . .

# Fourth Year Second Semester Art 4399 Senior Thesis and Exhibit .3 .3 .3 .6 18

Art Studio Elective	Art Studio Elective
Art Studio Elective	Art Studio Elective
Art History Elective	Art History Elective
Electives	Electives
. 18	18

^{*}Art 235-236 prerequisite to all Art 300-400 level courses for art majors.

First Semester

Bachelor of Science			
Specialization in Graphic Design	d .		
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		
Secon	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	Second Semester           Art 236 Art History II         .3           Art 237 Graphic Design I         .3           Art 239 Basic Black & White Photography I I         .3           PE Activity         .2           Elective         .3           Eng Literature/Spc/Foreign Language         .3           17		
Third	Year*		
First Semester  Art 3313 Illustration I	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           Voor         15-16		
First Semester	Second Semester		
Art 3355 Printmaking I	Art 4343 Problems in Graphic Design       3         Art Elective       3         Gov 232 Introduction to American Government II       3         Electives       9		

^{*}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	Second Semester	
Art 131 Drawing I	Art 132 Drawing II	
Art 133 Design I	Art 134 Design II	
English Composition3	Art 135 Art Appreciation	
PE Activity	English Composition	
Hum 131 Appreciation of Music and Theater3	PE Activity	
Mth/Laboratory Science	Mth/Laboratory Science	
16-17	16-17	

Second	Year
First Semester	Second Semester
Art 231 Drawing III	Art 231 Drawing IV
First Semester	Second Semester
Art 3316 Watercolor I	Second Semester
Fourth	Year
## First Semester  Art History	Second Semester           Art 4399 Senior Thesis and Exhibit         .3           Art History         .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 major.	<b>S</b>
Bachelor of Science All-Levels Certification	
	•
First	
First Semester       Art 131 Drawing I     3       Art 133 Design I     3       English Composition     3       PE Activity     1       Mth     3       Elective     3	Second Semester           Art 132 Drawing II         3           Art 134 Design II         3           English Composition         3           PE Activity         1           Mth         3           Elective         3
Second	
First Semester	Second 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         18	Art 236 Art History II
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	Second Semester  Art 3381 Secondary Art

#### Fourth Year

Touru	1 1 Cui
First Semester	Second Semester
Art 3355 Printmaking I	Art 4341 Crafts Sec Edu3
Art 3376 Ceramics 13	Art 4381 Problems: Art Education
Art 4331 Crafts Elementary Education3	Edu 463 Student Teaching—Special
Edu 438 Classroom Management Secondary	Electives
Electives	
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).

3:6:0

- 3. Eighteen hours of education: 331, 332, 338, 438, 462.
- 4. Approved electives to complete a total of 132 semester hours.

# **Art Courses (Art)**

Drawing I

131

131	Diawing	3.0.0
	A beginning course investigating a variety of drawing media, techniques and subjects, exploring perceptu	al and
	descriptive possibilities.	
132	Drawing II	3:6:0
	Continuation of Drawing I stressing the expressive and conceptual aspects of drawing.	
	Prerequisite: Art 131.	
133	Design I	3:6:0
	The study of the elements and concepts of two-dimensional design.	
134	Design II	3:6:0
	Continuation of Design I with emphasis upon three-dimensional concept.	
	Prerequisite: Art 133.	
135	Art Appreciation	3:3:0
	An introductory course emphasizing the understanding and appreciation of visual arts (painting, sculpture, are	chitec-
	ture) Open to all students.	
1393	Introduction to Photographic Arts	3:3:0
	Fundamentals of photography, including cameras, films and lighting. Recommended for non-majors who	wish a
	course requiring no laboratory.	
231	Drawing III	3:6:0
	A life drawing course emphasizing structure and action of the human figure.	
	Prerequisite: Art 132.	260
232	Drawing IV	3:6:0
	A continuation of Drawing III with emphasis on individual expression.	
	Prerequisite: Art 231.	
<b>233</b> .	Design III	3:6:0
	An advanced investigation into the problems of two-dimensional form with emphasis on individual expression	on.
	Prerequisite: Art 134.	
234	Sculpture I	3:6:0
	An exploration of the various sculptural approaches in a variety of media including additive and subtractions of the various sculptural approaches in a variety of media including additive and subtractions of the various sculptural approaches in a variety of media including additive and subtractions of the various sculptural approaches in a variety of media including additive and subtractions of the various sculptural approaches in a variety of media including additive and subtractions of the various sculptural approaches in a variety of media including additive and subtractions of the various sculptural approaches in a variety of media including additive and subtractions of the variety of media including additive and subtractions of the variety o	active
	techniques.	
	Prerequisite: Art 132 and 134.	
235	Art History Survey I	3:3:0
	A survey of painting, sculpture, architecture and the minor arts from prehistoric times to the 14th Century.	:
236	Art History Survey II	3:3:0
	A survey of painting, sculpture, architecture and the minor arts from the 14th Century to the present.	
237	Graphic Design I	3:6:0
	An introduction to the field of graphic design with emphasis on typography and basic layout.	

238	Painting I	3:6:0
	Exploring the potentials of painting media with emphasis on color and composition.	
	Prerequisite: Art 132 and 134.	
239	Basic Black and White Photography I	3:6:0
	An introduction to basic photographic processes and techniques used as an art medium.	
3313	Illustration I	3:6:0
	A media course. The preparation and execution of graphic material for reproduction.	
3315	Drawing V	3:6:0
	Continuation of drawing. Experimentation with various media and their adaptability to drawing principles.	
2246	Prerequisite: Art 232.	3:6:0
3316	Watercolor I	5:0:0
	Study and practice in the planning and execution of paintings in transparent and opaque watercolor.  Prerequisite: Art 233.May be repeated for credit.	
2217	Painting II	3:6:0
3317	Continuation of Painting I with emphasis on individual expression.	3.0.0
	Prerequisite: Art 238.May be repeated for credit.	
3323	Illustration II	3:6:0
3323	Experimentation with various techniques and/or media. Continuation of Art 3313.	<i>D</i>
	Prerequisite: Art 3313.	
3325	Drawing VI	3:6:0
	Continuation of Art 3315.	
	Prerequisite: Art 3315.	
3326	Watercolor II	3:6:0
	A continuation of 3316.May be repeated for credit.	
,	Prerequisite: Art 3316.	
3327	Painting III	3:6:0
	Continuation of 3317.May be repeated for credit.	
	Prerequisite: Art 3317.	
3333	Graphic Design II	3:6:0
	The study of advanced layout for media advertising, collateral and editorial material and the basic preparation	i of art
	for reproduction.	
2225	Prerequisite: Art 237.	3:6:0
2222	Crafts  Basic processes of textile design, weaving, leather and jewelry. May be repeated for credit.	3.0.0
3343	Graphic Design III	3:6:0
3343	The development of art and typography for media advertising, collateral and editorial material with emphasis	
	preparation of camera ready art.	
	Prerequisite: Art 239, 3313, 3333.	
3353	Fashion Layout and Illustration	3:6:0
	A study of basic layout and illustration for fashion advertising.	
3355	Printmaking I	3:6:0
	An introduction to printmaking with an emphasis on intaglio and relief processes.	
	Prerequisite: Art 233.	
3365	Printmaking II	3:6:0
	A continuation of Art 3355 with emphasis on planographic and serigraphic techniques. May be repeated for o	redit.
	Prerequisite: Art 3355.	220
3371	Elementary Art Education	3:3:0
2255	Curricula, methods, and materials for the elementary school.	3:6:0
3375	<b>Sculpture II</b> Application of the principles of sculpture through experiment in clay, plaster and various materials. May be re	_
	for credit.	peared
	Prerequisite: Art 234.	
3376	Ceramics I	3:6:0
3370	Investigation and practice in ceramic processes: forming and firing techniques. May be repeated for credit.	,,,,,,
	Prerequisite: Art 234 or permission of instructor.	
3381	Secondary Art Education	3:3:0
	Curricula, methods, and materials for the secondary school.	

Spring semester only.

3386	Ceramics II	3:6:0
	Opportunities for specialization in ceramic processes. May be repeated for credit.	
	Prerequisite: Art 3376.	
3393	Advanced Photography	3:6:0
	Advanced study of photography as an art medium.	
	Prerequisite: Art 239.	
4315	Drawing VII	3:6:0
-5-5	Specialized problems in studio area. May be repeated for credit.	-
	Prerequisite: Art 232.	
4316	Painting IV	3:6:0
1,110	Specialized problems in studio area. May be repeated for credit.	3.0.0
4225	• •	3:6:0
4325	Drawing VIII	3:0:0
	A continuation of Drawing VII.	
(226	Prerequisite: Art 3325.	
4326	Painting V	3:6:0
	A continuation of Painting IV. May be repeated for credit.	
	Prerequisite: Art 4316.	
4331	Crafts Elementary Education	3:6:0
	An introduction to various craft materials and techniques used in the elementary school. Course may be repeat	ed for
	credit.	
4333	Problems in Graphic Design	3:6:0
	Further study of commercial art techniques and typography.	
	Prerequisite: Art 3343.	
4336	Professional Practices	3:3:0
-550	A study of the practical aspects of the art profession with emphasis on health hazards, business procedures, a	
	law.	io uit
4338	Renaissance Art	3:3:0
4330	·	3:3:0
4244	Study of 15th and 16th century art in the Western world.	160
4341	Crafts Secondary Education	3:6:0
	An introduction to the various craft materials and techniques used in the secondary school. Course may be rep	eated
	for credit.	<u></u>
4343	Problems in Graphic Design	3:6:0
	Study in commercial art techniques and production.	
	Prerequisite: Art 3343.	
4348	Nineteenth & Twentieth Century Abstract Art	3:3:0
	Foundation of Abstraction in European Art from Neo-Classicism through Surrealism.	
4353	Special Problems in Graphic Design I	3:6:0
	Investigation of problems, methods and other considerations relevant to designing an advertising campaign.	
	Prerequisite: Art 3343.	
4355	Printmaking III	3:6:0
	Specialized problems in studio area. May be repeated for credit.	
	Prerequisite: Art 3365.	
4358	American Art	3:3:0
-050	The development of painting, sculpture and architecture in the United States from Colonial times to the presi	
4363	Special Problems in Graphic Design II	3:6:0
1303	Continuation of 4353.	3.0.0
4260	Prerequisite: Art 3343.	
4368	Contemporary Art	3:3:0
	A historical and critical analysis of painting, sculpture, and architecture in Europe and the Americas from 1900	to the
	present.	
4371	Curriculum and Instruction in Art Education	3:3:0
	Problems in selecting, evaluating, and guiding art activities. Study of children's development in art as background	nd for
	teaching.	
4373	Field Study in Graphic Design	3:6:0
	Familiarization with the overall commercial art field through actual experience. Time to be arranged. Permissi	_
	instructor.	
4375	Sculpture III	3:6:0
20,5	Specialized problems in studio area. May be repeated for credit.	J.V.U
	Prerequisite: Art 3375.	

	Department of Communication	193
4376	Ceramics III	3:6:0
13/0	Specialized problems in studio area. May be repeated for credit.	3.0.0
	Prerequisite: Art 3376.	
4378	Primitive Art	3:3:0
	A study of the development and nature of primitive art.	
4381	Problems: Art Education	3:6:0
	Individual projects to be completed under faculty supervision.	
	Prerequisite: Art 3371, 3381.	
4388	Modern Architecture and Sculpture	3:3:0
	The development and evolution of modern architecture and sculpture from the late 19th century to the pre-	ent in
	America and Europe.	
4391	Directed Individual Study	3:A:0
	Study of specialized area within art education field. May be repeated for credit.	
٠.	Prerequisite: Permission of instructor.	
4393	Directed Individual Study	3:A:0
	Study of specialized area within commercial art field. May be repeated for credit.	
	Prerequisite: Permission of instructor.	
4395	Directed Individual Study	3:A:0
	Study of specialized area within fine arts field. May be repeated for credit.	
	Prerequisite: Permission of instructor.	

# **Department of Communication**

The development and evolution of photography from its invention in 1839 to the present.

Student chooses a special project (exhibition or research or design project) for presentation.

Department Head: DeWitte T. Holland

History of Photography

Senior Thesis & Exhibit

201 Communication Building

3:3:0

3:6:0

**Professors:** Archilles, Brentlinger, Holland, James, Pederson **Associate Professors:** Johnson, Harrigan, Lin, Moulton, Roth **Assistant Professors:** Baker, Campbell, Wilkerson, Winney

**Instructors:** Eddy

4399

Adjunct Instructor: Morton, Perkins

The Department of Communication has four plans of study. 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 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. Non-communication department courses focusing on the communicative process may be considered for communication credit in a degree of the department.

Communication and General Speech 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.

The department does not accept grades of D in the major area for degree or teacher certification purposes, although they may be considered for elective purposes.

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 majors planning to certify to teach speech are required to take Speech 222-Forensic Activity twice.

# **Recommended Programs of Study**

# **Bachelor of Science — Speech Major**

(For those who wish to qualify for a secondary teacher's certificate in speech, drama or journalism). Einst Voor

First	Year
First Semester	Second Semester
English Composition3	English Composition
PE Activity	PE Activity
Science (Laboratory)4	Science (Laboratory)
Mth3	Mth
Major Required6	Major Required
	Hum 130 Appreciation of Art and Music
. 17	. 17
Secon	d Year
First Semester	Second Semester
English Literature3	English Literature3
His United States (Soph)3	His United States (Soph)
PE Activity	PE Activity
Major Required	Major Required
Electives	Electives
16	16
Third	Year
First Semester	Second Semester
Edu 331 Foundations of Education	Edu 338 Curriculum, Materials and Evaluation 3
Edu 332 Educational Psychology	Gov 232 Introduction to American Government II 3
Gov 231 Introduction to American Government 13	Major Adv6
Major Adv	Teaching Field Two and/or Electives
Teaching Field Two and/or Electives	·
. 18	. 18
Fourth	ı Year
First Semester	Second Semester
Edu 438 Classroom Management Secondary 3	Edu 462 Student Teaching—Special
Major Adv	Teaching Field Two and/or Electives
Teaching Field Two and/or Electives	
18	. 12
Teacher certification is available in spee	ch, theater drama and journalism under Plan I.

Courses included in the Public Speaking/Speech area are: 222 twice, 233, 235, 238, 434, The 437, 439 and three advanced hours. In addition, Speech 1311 is a degree require-

Courses in the theater/drama area are: The 211 four times, 231, 235, 237, 331, 332, 4312, 435 and 437. In addition, The 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 professional teacher certification in speech therapy and deaf education which may be completed on the graduate level. For specifics on undergraduate provisional teacher certification, please see the Director of the Communication Disorders Program.

First Year				
First Semester	Second Semester			
Bio 141 General Biology4	Bio 142 General Biology			
English Composition3	Hum 130, 131			
PE Activity	English Composition			
Mth3	PE Activity			
Spc 1301 Introduction to Speech and Language	Mth3			
Disorders	Spc 1303 Speech, Hearing and Voice Science 3			
Spc 1302 Phonology				

Secon	g year
First Semester	Second Semester
English Literature       3         His United States (Soph)       3         PE Activity       1         Spc 2302 Introduction to Deaf Education       3         Elective       6	English Literature       3         His United States (Soph)       3         PE Activity       1         Spc 2303 Introduction to Audiology       3         Spc 2301 Introduction to Speech Pathology       3         Elective       3         16
Third	
Edu 331 Foundations of Education	Second Semester  Spc 3302 Language Development and Language Disorders
Fourtl	h Year
First Semester           Edu 434 Classroom Management Elementary         3           \$pc 4302 Advanced Audiology         3           Spc 4301 Advanced Speech Pathology         3           Electives         9	Second Semester           Spc 4303 Clinical Practicum         .3           Electives         .9
. 18	. 12
Total	
mi. ver	

## Plan III

## Bachelor of Science — 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, newspaper, magazine, public relations, organizational communication 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-quantative 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 Composition3	Eng 134 Composition				
Science (Laboratory)4	Science (Laboratory)4				
Spc 131 Public Speaking	Eco 233 Principles and Policies				
Com 131 Introduction to Mass Communication 3	Com 133 News Writing				
Hum 130, 131 or 1323	CS 130 Computers and Society				
PE Activity	PE Activity				
17	17				

First Semester  Foundation elective.  6 Major electives.  7 Fourth Year  Foundation elective.  8 Major electives.  8 General electives.  8 General electives.  9 Major electives.  1 Major electives.  9 Major electives.  1 Major electives.  2 Major electives.  3 General electives.  4 Major electives.  5 General electives.  5 General electives.  6 Major electives.  8 General electives.  7 Major electives.  8 General electives.  8 General electives.  9 Major electives.  1 Major electives.  2 Major electives.  3 General electives.  4 Major electives.  5 General electives.  8 General electives.  8 General electives.  8 General electives.  9 General electives.  1 Major electives.  2 General electives.  3 General electives.  5 General electives.  5 General electives.  5 General electives.  6 Major electives.  7 Major electives.  7 Major electives.  7 Major electives.  8 General electives.  1 Major ele		Second	l Year
Ing Literature Spc 235 3 Spc 255 Rigilish Literature 5 Mth. 3 Sophomore American History 3 Gov 231 Introduction to American Government 1 . 3 Sophomore American Government 1 . 3 Sophomore American Government 1 . 3 Sophomore American History . 3 Major Elective 3 Major Elective 3 PE Activity . 1 PE Activity . 1 1 PF Activity 1 1 PF Activity 1 1 PF Activity 1 1 PF Activity			Second Semester
Sophomore American History 3 Gov 231 Introduction to American Government II . 3 Gov 231 Introduction to American Government II . 3 Com 2384 Evolution of Motion Pictures 3 Major Elective . 3 Major Elective . 1 16  Third Year	Eng Li		Spc 235 English Literature
Gov 231 Introduction to American Government I. 3 Sophomore American History 3 PE Activity 1 1 76  Third Year 3 PE Activity 1 1 76  First Semester 3 PE Activity 1 1 76  Third Year 3 PE Activity 1 1 76  Third Year 3 PE Activity 1 1 76  First Semester 3 PE Activity 1 1 76  Third Year 3 PE Activity 1 1 76  First Semester 3 Com 431 Introduction to Broadcasting 3 Com 431 Raw and Ethics of the Mass Media 3 Major elective 3 Com 431 Itaws and Ethics of the Mass Media 3 Major elective 3 Spc 434/432/439 3 Spc 434/432/439 3  Foundation elective 6 Major elective 3 Per Addition elective 3 Com 231 News Reporting 3 Com 3389 Broadcast Advertising 3 Com 3389 Broadcast Advertising 3 Com 3389 Broadcast Advertising 3 Total 124  Plan IV (For those not desiring teacher certification or the communication degree). This degree plan is designed for those wishing to emphasize communication, public address, theater or speech and hearing therapy, for purposes other than teaching 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. May serve as preprofessional training for the field of law. Requires 120 semester hours sexclusive of the required physical education courses/marching band/ROTC.  Bachelor of Arts — Speech Major Same as any of the above programs except for the completion of the course numbered 222 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.  Communication Courses (Com)  131 Introduction to Mass Communication and six semester hours of literature, and an eighteen semester hour hypewriting is	Mth		
Com 2394 Evolution of Motion Pictures . 3 Major Elective	Sopho	more American History	
PE Activity			
Third Year  First Semester  Com 234 Introduction to Broadcasting. 3 Com 4383 Print Advertising. 3 Major elective. 3 Foundation elective. 3 Major electives. 6 Eng 4310 Expository Writing or Foundation elective. 3 Com 231 News Reporting (R). 3 Spc 434/332449 3 3 To Total Type Production of the Mass Media 3 Major elective. 3 Com 231 News Reporting (R). 3 Total Type Production of the Major elective 5 Company of the Major elective 6 Major elective 7 Major elective 7 Major elective 7 Major elective 8 General electives 8 General electives 8 General electives 9 General electives 8 General electives 9 General ele			,
First Semester  Com 234 Introduction to Broadcasting. 3 Com 4383 Print Advertising. 3 Foundation elective. 3 Major electives. 6 Foundation elective. 3 Foundation elective. 5 Foundation elective. 6 Major electives. 7 Major electives. 8 General electives. 8 General electives. 8 General electives. 8 General electives. 9 Foundation elective. 9 General electives. 8 General electives. 9 Foundation elective. 9 General electives. 9 Foundation elective. 9 General electives. 9 General electives. 9 Foundation elective. 9 General electives. 124 Foundation elective. 124 Foundation electives. 124 Foundation elective. 124 Foundation elective. 124 Foundation elective. 124 Foundation elective. 124 Foundation electives. 124 Foundation electives. 124 Foundation electives. 124 Foundation or the communication degree. 155 Foundation electives. 125 Foundation electives. 126 Foundation electives. 126 Foundation electives. 127 Foundation electives. 128 Foundation electives. 128 Foundation electives. 128 Foundation electives. 128 Foundation. 124 Founda	TE ACC	<del></del>	
Second Semester   Second Semester   3   Gondation elective   3   Foundation elective   5   Foundation elective   5   Foundation elective   5   Foundation elective   6   Major electives   7   Foundation elective   3   General electives   3   General electives   3   General electives   3   General electives   3   Foundation elective   3   General electives   3   Foundation elective   5   Foundation elective   5   General electives   7   Foundation elective   7   Foundation elective   3   General electives   7   Foundation elective   8   General electives   7   Foundation elective   7   Foundation elective   7   Foundation elective   7   Foundation elective   8   General electives   7   Foundation elective   7   Foundation elective   7   Foundation elective   8   Foundation elective   7   Foundation elec			10
Com 234 Introduction to Broadcasting. 3 Com 4383 Print Advertising		Third	Year
Foundation elective			
Com 431 Laws and Ethics of the Mass Media 3 Major electives			
Eng 4326 Expository Writing or Com 231 News Reporting (R)			Major elective.
Fourth Year  Foundation elective			
First Semester Foundation elective.  Second Semester Foundation elective.  Second Semester Foundation elective.  Second Semester Foundation elective.  Semeral electives.  Semeral electiv	Con	231 News Reporting (R)	Touridation electricity
Fourth Year  Foundation elective			
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First Semester  Foundation elective			
Foundation elective			and the second of the second o
Major elective. 3 General electives. 4 General electives. 4 General electives. 4 General electives. 5 General electives. 6 General elec			**
General electives			
Total			General electives
Plan IV (For those not desiring teacher certification or the communication degree). This degree plan is designed for those wishing to emphasize communication, public address, theater or speech and hearing therapy, for purposes other than teaching 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. May serve as preprofessional training for the field of law. Requires 120 semester hours exclusive of the required physical education courses/marching band/ROTC.  Bachelor of Arts — Speech Major  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.  Communication Courses (Com)  131 Introduction to Mass Communication  Study of mass communication, analysis of media conglomerates, advdertising, popular culture, and media-audience interaction.  133 News Writing  3-3-2-3  A study of the principles of news writing, with emphasis upon concise, accurate, objective writing. Proficiency in typewriting is required.  231 News Reporting  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.  Prerequisite: Com 133 with a grade of C or higher.  232 Editing and Copyreading  The development and use of printing, type recognition, type harmony, preparing editorial material, writing headlines and correcting copy.  Prerequisite: Com 231.  134 Introduction to Broadcasting  A general introduction to the field of broadcasting, including a study of station and network organization and control			
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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.  **Prerequisite: Com 133 with a grade of C or higher.**  232 Editing and Copyreading 3:2:3  The development and use of printing, type recognition, type harmony, preparing editorial material, writing headlines and correcting copy.  **Prerequisite: Com 231.**  234 Introduction to Broadcasting 3:2:3  A general introduction to the field of broadcasting, including a study of station and network organization and control			
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headlines and correcting copy.  Prerequisite: Com 231.  234 Introduction to Broadcasting A general introduction to the field of broadcasting, including a study of station and network organization and control	232	Editing and Copyreading	3:2:3
234 Introduction to Broadcasting 3:2:3 A general introduction to the field of broadcasting, including a study of station and network organization and control		headlines and correcting copy.	ition, type harmony, preparing editorial material, writing
A general introduction to the field of broadcasting, including a study of station and network organization and control		•	
	234		
			uding a study of station and network organization and control

2341	Principles of Broadcast Production	3:2:3
2,41	Training in radio and television basic production with emphasis on oper campus broadcast facilities. Dil	
	formats will be considered. Practical experience in announcing, planning, production of programs.	iciciii
	Prerequisite: Com 234 or consent of instructor.	
2384	Evolution of Motion Pictures	3:3:0
2364	Development of American film as an art form, industry, mass medium and "language."	3:5:0
2205		2.2.0
2385	Film Genre	3:3:0
	Familiar entertainment film types: science fiction, horror, gangster, and Westerns are analyzed for I	ormai
2224	properties and ideological content. May be repeated when units vary.	206
3234	Practicum in Communication	2:0:6
	Laboratory experience in an actual setting. Assignment may be made for specific on the job experie	
	newspaper offices, radio stations, television stations, advertising agencies, etc. May be repeated for a t	otal of
	eight semester hours.	
333	Advanced Journalism Writing	3:2:3
	Writing focusing on skills required for sports, human interest, feature, editorial and specific subject	t area
	columns.	
	Prerequisite: Com 231 or equivalent.	
335	Magazine Production	3:2:3
	Analysis and participation in all phases of magazine production.	
336	Film Directors	3:2:3
	Collected film works of a director analyzed through reading and screening. May be repeated whe	n unit
	changes.	
337	Audio Production	3:2:3
	Principles and practice of introductory professional audio recording and editing.	
338	Television Production	3:2:3
	Activities in writing, acting, directing, producing, announcing and engineering various types of tele	vision
	productions.	
3381	Photo Journalism	3:2:3
3301	Principles of photography applied to the specific area of photojournalism. No experience is required, by	
	student must have access to a 35 mm adjustable camera.	cacii
2292	Cinematography	3:2:3
3382	An introduction to the basic techniques involved in the use of the motion picture as a means of communic	
	A thorough knowledge of basic photographic theory will be expected. All aspects of motion picture prod	uction
2202	will be covered.	2.2.0
3383	Broadcast Advertising	3:3:0
/20	Broadcast advertising theory and techniques in the total marketing mix.	
430	Communication Problems and Projects	3:3:3
	Problems analyzed and evaluated under individual guidance of faculty. Course may be repeated for	credit
	three times.	
431	Laws and Ethics of the Mass Media	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	History and Principles of American Journalism	3:3:0
	The growth of modern newspapers, with emphasis on important persons in American journalism a	nd the
	influence of their publications on the history of the United States.	
433	Mass Communication and Society	3:3:0
	Analysis of impact of mass communication on society.	
438	Broadcast News	3:2:3
	Study and practice in developing news for broadcasting. Various types of news material, includi-	ng the
	documentary, its procurement and presentation.	
	Prerequisite: Com 234 or consent of instructor.	•
4383	Print Advertising	3:2:3
	A study of advertising, including copy writing, type selection, layout and design for print media.	
439	Television Field Production	3:3:3
-57	Principles and practice of television field production, editing and post production.	
4391	Advanced Television Production	3:2:3
1371	Seeks to develop professional competence in television production of news, commercials, documentari	_
	special program.	
C	each Courses (Cns)	٠.
•	eech Courses (Spc)	
1301	Introduction to Speech, Hearing and Language Disorders	3:3:0
	Overview of the profession of speech pathology, audiology and deaf education.	
1302	Phonology	3:3:0
	Descriptive phonetics, phonetic alphabet systems	

1303	Speech, Hearing and Voice Science Introduction to the scientific variables of speech, hearing, and voice.	3:3:0
131	Public Speaking Principles and practice of public speaking.	3:3:6
211	Parliamentary Procedure	1:1:0
	Theory and practice in conducting a business meeting through standard parliamentary procedures.	•
222	Forensic Activity  Participation in forensics and co-curricular speaking events including campus, community and intercol occasions. May be repeated for a maximum of eight semester hours credit.  Prerequisite: Permission of instructor required.	2:0:4 egiate
230	Articulation Disorders	3:3:0
2301	Prevention, assessment, etiology and remediation of articulation disorders.  Introduction to Speech Pathology	3:3:0
	Etiology and treatment of speech disorders with emphasis on functional disorders.	
2302	Introduction to Deaf Education  Historical and current considerations in the deaf education profession.	3:3:0
2303	Introduction to Audiology	3:3:0
	Anatomy of ear, physics of sound, test modes and procedures.	
232	Interpersonal Communication	3:3:0
	Principles and practices of interpersonal communication in various settings.	
233	Advanced Public Speaking	3:3:0
235	Principles and practice in special occasion speaking.  Oral Interpretation of Literature	3:3:0
23)	Instruction and practice in the principles of speech applied to performance in the interpretation of prose and p	
238	Oral Controversy	3:3:0
	A study of evidence and reasoning and a critique of them as reflected in current public affairs.	
239	Language for the Deaf	3:3:0
	Survey of systems of teaching language development in nursery and preschool age children.	
3301	Research and Literature in Speech and Hearing	3:3:0
3302	Literature and research methods specific to speech and hearing.  Language Development and Language Disorders	3:3:0
3302	Normal language development, language assessment, language, intervention.	3:5:
3303	Introduction to Manual Communication Systems	3:3:0
	Introduction to fingerspelling and the language of signs.	
331	Business and Professional Speech	3:3:0
332	Application of the fundamentals of speech production to the needs of the professional person.  Group Methods and Discussion	3:3:0
222	Communication theory of group processes. Practice in group problem solving.	
333	Interpretation of Children's Literature Study of materials for different ages of children; sources of program material, practice in adapting material	3:3:0
	programs; practice in presenting program in laboratory and in nearby schools, hospitals and homes.	ii iiite
334	Interviewing	3:3:0
	Theory and practice in the several types of interviews current in the United States.	
3391	Speech Reading, Auditory Training and Amplification Devices	3:3:0
	A survey of the literature, theory, and practice in rehabilitation of the hearing impaired.	
3392	Speech for the Deaf  Make all of developing accept in the versus deef shild	3:3:0
430	Methods of developing speech in the young deaf child. <b>Problems and Projects in Speech</b>	3:A:0
130	These problems are discussed and analyzed through discussion and research. Each student elects a project and analyzed through discussion and research.	
	problem on which he/she does extensive research and presents a report to the department faculty. Course n	
	repeated three times for credit.	•
4301	Advanced Speech Pathology	3:3:0
	Advanced speech pathology: introduction to specific communication disorders, diagnostic procedures and the	erapy
4202	programs.	
4302	Advanced Audiology  Hearing evaluation procedures, clinical evaluation techniques and instrumentation.	3:3:0
4303	Clinical Practicum	3:0:9
0-0	Introduction to clinical practice in speech pathology, audiology and deaf education. This course may be repeat	
	clinical clock hours accumulation.	
<b>4304</b>	Intermediate Manual Communication	3:3:0
	Intermediate skills course in the language of sign.	
432	Public Relations	3:3:0
4321	Theory, principles, and practice of public relations communication.  Advanced Language for the Deaf	2.2.0
1341	Principles and techniques for systematic development of language from the first through the sixth grades.	3:3:0

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	Creative Dramatics 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.	
3360	Advanced Children's Theater 3:2:3	,
	Instruction and practice in advanced principles of theater as applied to plays for children's audiences.	
337	Advanced Acting 3:2:3	,
	Advanced principles and practice of acting for performance.	
338	Camera Performance 3:2:3	,
	Principles and practices of acting before TV and film Cameras	
430	Creative Communication 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	Problems and Projects in Theater 3:A:0	,
	Students will perform activities in one of the following areas: acting, directing, producing, designing and construct-	
	ing costumes and stage settings for the school theater.	
	May be repeated three times for credit.	
432	Advanced Make Up 3:2:3	,
	Principles and practices of handling make up problems.	
435	Advanced Directing 3:2:3	,
	Principles and practice of play directing for upper level academic theater student:	
436	History of Theater 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	Directing Secondary School Speech and Theater Activities 3:A Principles involved in extracurricular speech	ı
	and theater activities. Practical experience with workshop students constitutes a part of this course. Offered in spring	
	terms only	
4371	Reader's Theater 3:3:0	)
	Exploration of literature through group performance, theory and techniques for performing all types of literature	,
	script creation; staging and directing.	
438	Theater Management and Public Relations 3:3:3	,
	Instruction in the workings of theater as an organization within the community and business world.	
439	Summer Repetory Theater 3:2:3	,
	Participation in a variety of shows during the summer season to enable the student to work in a professional repetory atmosphere.	,

# Department of Music

106 Music Building

Department Head: George L. Parks

Professors: Carlucci, Kaszynski, Parks, Wilev

Associate Professors: Collier, Holmes, LeBlanc, Truncale

Assistant Professors: Barrett, Shmider, Simmons

**Instructors:** Babin, Berthiaume, Culbertson, Dyess, Ornelas, Parks

Adjunct Instructors: Victor

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:

Meet the basic requirements for all degree programs.

Complete one of the programs of study listed below. 2.

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.

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.

Participate in student recitals as recommended by the department.

For graduation, all music majors must present a recital during the senior year as recommended by the department head.

All students, including transfers, must show adequate proficiency in their areas of 7. specialization, as determined by the music faculty.

8. Auditions are required for junior level standings in the Bachelor of Music degree

9 All music majors will be required to take Humanities 132.

# **Recommended Programs of Study**

# **Bachelor of Music — Composition**

F	i	r	s	t	Y	e	a	ſ

First	
First Semester	Second Semester
AM Major Instrument	AM Major Instrument2
MLb Band, Choir, Orchestra1	MLb Band, Choir, Orchestra1
MTy 132 Elementary Harmony3	MTy 133 Elementary Harmony3
MLt 121 Music Literature	MLt 122 Music Literature2
English (Composition)	English (Composition)
PE1	PE1
AM Elective (must be piano with the	AM Elective (must be piano with the
exception of piano and organ majors)	exception of piano and organ majors)
Elective (Math, Science)	Elective (Math, Science)
	MLb 114 Repertoire & Pedagogy
MLb 114 Repertoire & Pedagogy	
18	18
the two contracts and the contract of the cont	and the second of the second o
Second	
First Semester	Second Semester
AM 22832	AM 2284
MLb Band, Choir, Orchestra1	MLb Band, Choir, Orchestra1
MTy 232 Advanced Harmony	MTy 233 Advanced Harmony
English Literature3	*Elective (non-music)
Sophomore American History	Sophomore American History
Gov 231 Introduction to American Government 1 3	Gov 232 Introduction to American Government II 3
PE1	PE
MLb 114 Repertoire & Pedagogy	MLb 114 Repertoire & Pedagogy
17	17
• •	
Third	Year
First Semester	Second Semester
AM 34834	AM 3484
MLb Band, Choir, Orchestra1	MLb Band, Choir, Orchestra1
MTy 321 Counterpoint	MTy 322 Counterpoint
MLt 333 Music History	MLt 334 Music History
MLb 114 Repertoire & Pedagogy	MLb 114 Repertoire & Pedagogy
Elective (Math, Science)	Elective (Math, Science)
Hum 132 Appreciation of Theater and Art	Elective non-music
. 17	
	· · · · · · · · · · · · · · · · · · ·
Fourth	
First Semester	Second Semester
AM 44834	AM 44844
MLb Band, Choir, Orchestra1	MLb Band, Choir, Orchestra
MTy 421 Form and Analysis	MTy 422 Orchestration
MLt 336 or MLt 337	MEd 337 or MEd 338
MTy 425 Band Arranging	MLb 114 Repertoire & Pedagogy
Music Elective	Music Elective
MLb 114 Repertoire & Pedagogy	
15	. 13
Total	
Total	
*Must be 3 semester hours of literature, technical report writing, speed	h communication or foreign Janguage
must be 3 semester now's of meridiare, recondent report writing, speec	
In atuum and al (Ctuim asa)	; *
Instrumental (Strings)	
First	Voca

First Semester	Second Semester
AM Major Instrument2	AM Major Instrument2
MLb 114 Repertoire & Pedagogy	MLb 114 Repertoire & Pedagogy
AM 1143	AM 11431
MTy 132 Elementary Harmony3	MTy 133 Elementary Harmony3
MLb 122 Orchestra	MLb 122 Orchestra
MLt 121 Music Literature	MLt 122 Music Literature2
English (Composition)	English (Composition)
PE	PE1
Elective (Math, Science)	Elective (Math, Science)
10	10

Elective (non-music) or 17

Music Elective or

Music Elective or

Elective (non-music) or

# Third Year

Inird	rear
First Semester	Second Semester
AM Major Instrument (2 hours for jazz studies) 4	AM Major Instrument (2 hours for jazz studies and
MLb 114 Repertoire & Pedagogy or	MTy 323 Jazz Arranging)4
MLb 117 Dance Band	MLb 114 Repertoire & Pedagogy or
MLt 333 Music History	MLb 117 Dance Band
MLb 423 Chamber Music Ensemble or	MLt 334 Music History
MLb 115 Jazz Combo	MLb 423 Chamber Music Ensemble or
MTy 321 Counterpoint	MLb 115 Jazz Combo
MLb 124 Marching Band or PE	MTy 322 Counterpoint
Gov 231 Introduction to American Government I3	MLb 125 Symphonic Band
Elective (Math, Science)	Gov 232 Introduction to American Government II 3
	Elective (Math, Science)
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Fourt	Vene
First Semester	Second Semester
AM Major Instrument (2 hours for jazz studies and	AM Major Instrument (2 hours for jazz-studies and
MLb 115 Jazz Combo)	MLb 115 Jazz Combo
MLb 114 Repertoire & Pedagogy or	MLb 114 Repertoire & Pedagogy or
MLb 117 Dance Band1	MLb 117 Dance Band1
MLt 337 Instrumental Literature or	MEd 338 Instrumental Conducting or
MEd Recording Techniques	MEd 431 Jazz Electronic Music
MTy 421 Form and Analysis	MTy 422 or 425
MLb 124 Marching Band or PE	MLb 125 Symphonic Band2
MEd 333 High School Stage Band	Elective (non-music)
MLt 330 Jazz History3	
	- 15
. 18	. 15
Total	
*Must be 3 semester hours of literature, technical report uriting, speed	h communication or foreign language.
Piano And/Or Organ	
_	
First	Year
First Semester	Second Semester
	AM Major Instrument
AM Major Instrument	
MLb 114 Repertoire & Pedagogy	MLb 114 Repertoire & Pedagogy
Major Performing Ensemble	Major Performing Ensemble
AM Elective	AM Elective
MLt 121 Music Literature2	MLt 122 Music Literature2
MTy 132 Elementary Harmony3	MTy 133 Elementary Harmony3
English (Composition)	English (Composition)
PE1	PE1
Elective (Math, Science)	Elective (Math, Science)
. 18	18
Secon	d Year
First Semester	Second Semester
AM Major Instrument	AM Major Instrument
MLb 114 Repertoire & Pedagogy	MLb 114 Repertoire & Pedagogy
Major Performing Ensemble	Major Performing Ensemble1
MLb 423 Chamber Music Ensemble1	
MTv 232 Advanced Harmony	MLb 423 Chamber Music Ensemble
	MTy 233 Advanced Harmony
English Literature	MTy 233 Advanced Harmony
English Literature	MTy 233 Advanced Harmony       3         *Elective (non-music)       3         Sophomore American History       3
English Literature         .3           Sophomore American History         .3           Elective (non-music)         .3	MTy 233 Advanced Harmony       3         *Elective (non-music)       3         Sophomore American History       3         Elective (non-music)       3
English Literature	MTy 233 Advanced Harmony       3         *Elective (non-music)       3         Sophomore American History       3
English Literature         3           Sophomore American History         3           Elective (non-music)         3           PE         1	MTy 233 Advanced Harmony       3         *Elective (non-music)       3         Sophomore American History       3         Elective (non-music)       3         PE       1
English Literature         3           Sophomore American History         3           Elective (non-music)         3           PE         1           18	MTy 233 Advanced Harmony       3         *Elective (non-music)       3         Sophomore American History       3         Elective (non-music)       3         PE       1         18
English Literature         3           Sophomore American History         3           Elective (non-music)         3           PE         1           18	MTy 233 Advanced Harmony       3         *Elective (non-music)       3         Sophomore American History       3         Elective (non-music)       3         PE       1
English Literature         3           Sophomore American History         3           Elective (non-music)         3           PE         1           18	MTy 233 Advanced Harmony       3         *Elective (non-music)       3         Sophomore American History       3         Elective (non-music)       3         PE       1         18
English Literature	MTy 233 Advanced Harmony
Sophomore American History	MTy 233 Advanced Harmony
Sophomore American History	MTy 233 Advanced Harmony
Sophomore American History	MTy 233 Advanced Harmony
Sophomore American History	MTy 233 Advanced Harmony
Sophomore American History	MTy 233 Advanced Harmony 3 *Elective (non-music) 3 Sophomore American History 3 Elective (non-music) 3 PE 1   18  1Year  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
Sophomore American History	MTy 233 Advanced Harmony   3
English Literature	MTy 233 Advanced Harmony   3
Sophomore American History	MTy 233 Advanced Harmony
English Literature	MTy 233 Advanced Harmony
Sophomore American History	MTy 233 Advanced Harmony

Fourt	h Year
	Second Semester
First Semester	
AM Major Instrument	AM Major Instrument
MLb 114 Repertoire & Pedagogy 1	MLb 114 Repertoire & Pedagogy
Major Performing Ensemble1	Major Performing Ensemble1
MTy 421 Form and Analysis	MTy 422 Orchestration
MLt 336 or MLt 3373	MEd 337 or MEd 338
Hum 132 Appreciation of Theater and Art3	Elective (non-music)
Hulli 132 Appreciation of Theater and Art	Elective (non-masic),
. 14	14
Total	136
*Must be 3 semester bours of literature, technical report writing, speed	ch communication or foreign language
Vocal	
	Year
	Second Semester
First Semester	
AM 1281	• AM 1282
MLb 114 Repertoire & Pedagogy	MLb 114 Repertoire & Pedagogy1
AM 11431	AM 1143
MLb 1104 Grand Chorus	MLb 1104 Grand Chorus1
MTy 132 Elementary Harmony3	MTy 133 Elementary Harmony
MLt 121 Music Literature	MLt 122 Music Literature
English (Composition)	English (Composition)
Italian	German
PE	PE
<del></del>	<del></del>
17	. 17
Secon	d Year
First Semester	Second Semester
	AM 2282
AM 2281	
MLb 114 Repertoire & Pedagogy	MLb 114 Repertoire & Pedagogy
MLb 1104 Grand Chorus	MLb 1104 Grand Chorus
MTy 232 Advanced Harmony	MTy 233 Advanced Harmony
Spc 1311 Voice, Diction and Vocabulary3	English Literature
French	Elective (Math, Science)
Sophomore American History	Sophomore American History
	PE1
PE1	FE
. 17	17
Third	l Year
First Semester	Second Semester
AM 3481	AM 3482
MLb 114 Repertoire & Pedagogy	MLb 114 Repertoire & Pedagogy
MLb 1104 Grand Chorus	MLb 1104 Grand Chorus
MLb 210 Opera1	MLb 210 Opera1
MTy 321 Counterpoint	MTy 322 Counterpoint
MLt 336 Choral Literature	MEd 337 Choral Conducting,
MLt 333 Music History	MLt 334 Music History
	• • • • • • • • • • • • • • • • • • •
Science (laboratory)	Science (laboratory)
19	. 19
Fourt	h Year
First Semester	Second Semester
AM 4481	AM 44824
MLb 114 Repertoire & Pedagogy	MLb 114 Repertoire & Pedagogy
MLb 1104 Grand Chorus1	MLb 1104 Grand Chorus
MLb 210 Opera1	MLb 210 Opera1
MTy 421 Form and Analysis	MTy 422 Orchestration
Gov 231 Introduction to American Government I3	Gov 232 Introduction to American Government II 3
Hum 132 Appreciation of Theater and Art3	Elective (Math, Science)
	15
	1)

# **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	AM Major Instrument
MLb Marching Band or PE	MLb 125 Symphonic Band
AM 1143	AM 1143
Sophomore American History	Sophomore American History
English Composition	Eng (Composition)
Mth 1334 College Algebra	Mth 134 Mathematics for Business Applications 3
MTy 132 Elementary Harmony	MTy 133 Elementary Harmony
MLt 121 Music Literature	MLt 122 Music Literature
	<del></del> .
. 19	19
Secon	
First Semester	Second Semester
AM Major Instrument	AM Major Instrument
MLb Marching Band or PE2	MLb 125 Symphonic Band
AM 11431	AM 1143
Gov 231 Introduction to American Government I3	Gov 232 Introduction to American Government II 3
Science (laboratory)	Science (laboratory)
MTy 232 Advanced Harmony	MTy 233 Advanced Harmony
English Literature3	English Literature
18	18
Third	
First Semester	Second Semester
AM Major Instrument	AM Major Instrument
MLb Marching Band or PE	MLb 125 Symphonic Band
MEd 311, 313	MEd 312, 314, 4113
MEd 336 Instrumental Music	MEd 338 Instrumental Conducting
MLt 333 Music History	MLt 334 Music History
Edu 331, 332	Edu 334 Child Development and Evaluation 3
MTy 321 Counterpoint	MTy 322 Counterpoint
20	18
Fourtl	ı Year
First Semester	Second Semester
AM Major Instrument2	AM Major Instrument2
MLb Marching Band or PE	MLb 125 Symphonic Band
Edu 438 Classroom Management Secondary 3	Edu 463 Student Teaching — Special 6
MTy 421 Form and Analysis	MTy 422 or 425
MEd 412 Woodwinds	MEd 315, 317
Elective (Foundation)	1124 319, 327
Elective (Foundation)	
Hum 132 Appreciation of Theater and Art3	
	<del></del>
. 19	. 14

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 Semester	Second Semester
AM Major Instrument2	AM Major Instrument2
MLb 122 Orchestra2	MLb 122 Orchestra
AM 1143	AM 1143
Sophomore American History	Sophomore American History
MTy 132 Elementary Harmony	MTy 133 Elementary Harmony
MLt 121 Music Literature2	MLt 122 Music Literature2
PE1	PE1
Mth 1334 College Algebra3	Mth 134 Mathematics for Business Applications 3
20	20
Secon	d Year
First Semester	Second Semester
AM Major Instrument	AM Major Instrument2
MLb 122 Orchestra	MLb 122 Orchestra
Gov 231 Introduction to American Government I 3	Gov 232 Introduction to American Government II 3
Science (Laboratory)	Science (laboratory)
MTy 232 Advanced Harmony	MTy 233 Advanced Harmony
PE	PE
18	. 18
Third	
First Semester	Second Semester
AM Major Instrument.       .2         MLb 122 Orchestra.       .2	AM Major Instrument
MEd 311 or 312	MEd 313 or 314
MEd 336 Instrumental Music	MEd 338 Instrumental Conducting
MLt 333 Music History	MLt 334 Music History
Edu 331, 3326	Edu 334 Child Development and Evaluation 3
MTy 321 Counterpoint2	MTy 322 Counterpoint
19	Hum 132 Appreciation of Theater and Art3
	19
Fourth	n Year
First Semester	Second Semester
AM Major Instrument	AM Major Instrument
MLb 122 Orchestra	MLb 122 Orchestra
Edu 438 Classroom Management Secondary	MTy 422 Orchestration
MEd 411 or 412	MEd 315 Percussion
Elective (Foundation)3	
Elective (Foundation)	
16	13
Total Hours	
The six hours of foundation electives must be	chosen from two different foundation groups
The one hours of to distantion electives made be	enough from two different foundation groups.
Bachelor of Music in Music Educ	cation
Bacheloi of Music III Music Educ	Jation
(D'	•
(Piano/Organ, Voice)	
(Qualifies for teacher certification music, all-le	evels)
First	Vaan
First Semester AM 1241 or 1281	<b>Second Semester</b> AM 1242 or 1282
MLb 1104 Grand Chorus	MLb 1104 Grand Chorus
AM 1183 or 1143	AM 1184 or 1143
Sophomore American History	Sophomore American History
Eng (Composition)	
Mth 1334	Eng (Composition)
14T 400 Pl 17	Mth 1343
MTy 132 Elementary Harmony3	Mth 134          MTy 133 Elementary Harmony
MTy 132 Elementary Harmony       3         MLt 121 Music Literature       2	Mth 134       3         MTy 133 Elementary Harmony       3         MLt 122 Music Literature       2
MTy 132 Elementary Harmony       3         MLt 121 Music Literature       2         PE       1	Mth 134       3         MTy 133 Elementary Harmony       3         MLt 122 Music Literature       2         PE.       1
MTy 132 Elementary Harmony       3         MLt 121 Music Literature       2	Mth 134       3         MTy 133 Elementary Harmony       3         MLt 122 Music Literature       2

**First Year** 

### **Second Year**

Secon	u i cai
First Semester	Second Semester
AM 2241 or 2281	AM 2242 or 2282
MLb 1104 Grand Chorus	MLb 1104 Grand Chorus
AM 1183 or 1143	AM 1184 or 1143
Gov 231 Introduction to American Government I3	Gov 232 Introduction to American Government II 3
Science (laboratory)	Science (laboratory)
PE1	PE
MTy 232 Advanced Harmony	MTy 233 Advanced Harmony
MLb 210 Opera1	MLb 210 Opera
English Literature	English Literature
19	
Third	Vone
First Semester	Second Semester
AM 3241 or 3281	AM 3242 or 3282
MLb 1104 Grand Chorus	MLb 1104 Grand Chorus
MEd 331 Elementary Methods and Materials 3	MEd 332 Techniques and Materials
MEd 335 Choral Music	MEd 337 Choral Conducting
MLt 333 Music History	MLt 334 Music History
Edu 331, 3326	Edu 334 Child Development and Evaluation 3
MTy 321 Counterpoint2	MTy 322 Counterpoint
in the contract of the contrac	Hum 132 Appreciation of Theater and Art3
20	20
Fourt	n Year
First Semester	Second Semester
AM 4241 or 4281	AM 4242 or 4282
MLb 1104 Grand Chorus	MLb 1104 Grand Chorus
Edu 438 Classroom Management Secondary 3	Edu 463 Student Teaching — Special
MTy 421 Form and Analysis	MTy 422 Orchestration
MLb 210 Opera1	MLb 210 Opera1
Elective (Foundation)	
Elective (Foundation)	
15	12
Total Hours	

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)	English (Composition)
Mth 1334 College Algebra3	Mth 134 Mathematics for Business Applications 3
AM Major Instrument2	AM Major Instrument2
AM 1143	AM 11431
MLt 121 Music Literature2	MLt 122 Music Literature2
MTy 132 Elementary Harmony3	MTy 133 Elementary Harmony3
MLb 124 Marching Band or PE	MLb 125 Symphonic Band
Science (Laboratory)4	Science (Laboratory)

17

17

### Third Year

Thir	d Year		
First Semester   2	Second Semester		
The six elective hours must be cho	sen from two different academic foundation		
groups.  If the student is an organ major, substitution or organ majors must take at leadoratory in choir.	itute organ for all piano. east four semesters of their eight semesters of		
String Major			
Firs	t Year		
First Semester	Second 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	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		
Secon	nd Year		
First Semester   3   3   3   3   3   3   3   3   3	Second Semester		
Thie	d Vear		
Third Year First Semester Second Semester			
First Semester           Edu 331 Foundations of Education         3           Edu 332 Educational Psychology         3           MEd 331 Brass         1           MEd 336 Instrumental Music         3           ML 333 Music History         3           MTy 321 Counterpoint         2           AM Major Instrument         2           MLb 122 Orchestra         2           19	Edu 334 Child Development and Evaluation   3		

Fourth	n Year
First Semester	Second Semester
Edu 438 Classroom Management Secondary	Edu 4636
MEd 411 Woodwinds	MTv 422 Orchestration
MEd 332 Techniques and Materials	AM Major Instrument
MTv 421 Form and Analysis	MLb 122 Orchestra
AM Major Instrument	Elective (Foundation)
Elective (Foundation)	
MLb 122 Orchestra	a de la companya de
AM 1143	
· · · · · · · · · · · · · · · · · · ·	
17 -	. 15
'Total	
The six elective hours must be chosen from tw	vo different academic foundation groups
	different academic roundation groups.
Theory and Composition Major	·
First	Vege
First Semester	Second Semester
English (Composition)	English (Composition)
Mth 1334 College Algebra	Mth 134 Mathematics for Business Applications 3
Science (Laboratory)	Science (Laboratory)4
AM Major Instrument	AM Major Instrument
MTy 132 Elementary Harmony	MTy 133 Elementary Harmony
MLt 121 Music Literature	MLt 122 Music Literature
MLb Band, Chorus, Orchestra	MLb Band, Chorus, Orchestra
PE1	PE1
19	. 19
Secon	d Year
First Semester	Second Semester
English Literature	English Literature
Sophomore American History	Sophomore American History
Gov 231 Introduction to American Government I3	Gov 232 Introduction to American Government II 3
AM 1241	AM 1242
MTv 232 Advanced Harmony	MTy 233 Advanced Harmony
MLb Band, Chorus, Orchestra1	MLb Band, Chorus, Orchestra
PE1	PE
•	Elective (non-music)
16	19
A Company of the Comp	•
Third	· ·
First Semester	Second Semester
Edu 331 Foundations of Education	Edu 334 Child Development and Evaluation 3
Edu 332 Educational Psychology	AM 3284
AM 3283	MTy 322 Counterpoint
MTy 321 Counterpoint	MEd 337 or 338
MEd 335 or 336	MLt 334 Music History
MLt 333 Music History	MEd 332 Techniques and Materials
MEd 331 Elementary Methods and Materials 3	MLb Band, Chorus, Orchestra
MLb Band, Chorus, Orchestra1	·
. 20	17
Fourtl	n Year
First Semester	Second Semester
rust semester	
Edu'438 Classroom Management Secondary	Edu 4636
	Edu 463
Edu 438 Classroom Management Secondary 3	MTy 422 Orchestration
Edu 438 Classroom Management Secondary	MTy 422 Orchestration
Edu 438 Classroom Management Secondary       .3         MTy 421 Form and Analysis       .2         MTy 425 Band Arranging       .2	MTy 422 Orchestration       2         AM 4284       2         Elective (non-music)       3
Edu 438 Classroom Management Secondary       3         MTy 421 Form and Analysis       2         MTy 425 Band Arranging       2         AM 4283       2	MTy 422 Orchestration       2         AM 4284       2         Elective (non-music)       3
Edu 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	MTy 422 Orchestration       2         AM 4284       2         Elective (non-music)       3         MLb Band, Chorus, Orchestra       1
Edu 438 Classroom Management Secondary       3         MTy 421 Form and Analysis       2         MTy 425 Band Arranging       2         AM 4283       2         Elective (Music)       2	Edu 463       6         MTy 422 Orchestration       2         AM 4284       2         Elective (non-music)       3         MLb Band, Chorus, Orchestra       1         14

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**

voodi major				
First	First Year			
First Semester	Second Semester			
English (Composition)	English (Composition)			
PE1	PE1			
AM 11431	AM 1143			
AM 1281	AM 1282			
MLb 1104 Grand Chorus	MLb 1104 Grand Chorus			
MLt 121 Music Literature	MLt 122 Music Literature2			
MTy 132 Elementary Harmony3	MTy 133 Elementary Harmony3			
Science (Laboratory)	Science (Laboratory)4			
	. 17			
Second	l Year			
First Semester	Second Semester			
English Literature	English Literature			
Sophomore American History	Sophomore American History			
PE	PE			
AM 2281	AM 2282			
MLb 1104 Grand Chorus	MLb 1104 Grand Chorus			
MLb 210 Opera1	MLb 210 Opera1			
Mth 1334 College Algebra3	Mth 134 Mathematics for Business Applications 3			
MTy 232 Advanced Harmony	MTy 233 Advanced Harmony			
Third	Vear			
First Semester	Second Semester			
Edu 331 Foundations of Education	Edu 334 Child Development and Evaluation 3			
Edu 332 Educational Psychology	AM 3282			
AM 3281	MEd 332 Techniques and Materials			
MEd 331 Elementary Methods and Materials 3	MEd 337 Choral Conducting			
MEd 335 Choral Music	MLb 1104 Grand Chorus			
MLb 1104 Grand Chorus	MLt 334 Music History			
MLt 333 Music History	MTy 322 Counterpoint			
MTy 321 Counterpoint	Elective (Foundation)			
20	20			
Fourth	Vear			
First Semester	Second Semester			
Edu 438 Classroom Management Secondary	Edu 463			
Gov 231 Introduction to American Government I3	Edu 463			
AM 4281	AM 4282			
MLb 1104 Grand Chorus	MLb 1104 Grand Chorus1			
MTy 421 Form and Analysis	MTy 422 Orchestration			
Elective (Foundation)				
14	14			
Total				
	en 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 2:1½4*:0				
3403, 3404, 4403, 4404 Bassoon 4:2**:0				

1211, 1212, 2211, 2212, 3211, 3212, 4211, 4212 Cello 2:11/24*:0

 $1215,\,1216,\,2215,\,2216,\,3215,\,3216,\,4215,\,4216\,\,Clarinet\,\,2:1^{1}\!/_{2}4^{*}:0$ 

1217, 1218, 2217, 2218, 3217, 3218, 4217, 4218 Cornet-Trumpet 2:1¹/₂4*:0

3411, 3412, 4411, 4412 Cello 4:2**:0

3415, 3416, 4415, 4416 Clarinet 4:2**:0

3417, 3418, 4417, 4418 Cornet-Trumpet 4:2**:0

	1221,	1222, 2221, 2222, 3221, 3222, 4221, 4222 Flute 2:1½4*:0	
	3421,	3422, 4421, 4422 Flute 4:2**:0	
	1223.	1224, 2223, 2224, 3223, 3224, 4223, 4224 French Horn 2:11/24*:0	
		3424, 4423, 4424 French Horn 4:2**:0	
:		1232, 2231, 2232, 3231, 3232, 4231, 4232 Oboe 2:1½4*:0	
ċ			
		3432, 4431, 4432 Oboe 4:2**:0	
		1234, 2233, 2234, 3233, 3234, 4233, 4234 Organ 2:1½4*:0	
		3434, 4433, 4434 Organ 4:2**:0	
	1241,	1242, 2241, 2242, 3241, 3242, 4241, 4242 Piano 2:11/24*:0	
	3441,	3442, 4441, 4442 Piano 4:2**:0	
	1251,	1252, 2251, 2252, 3251, 3252, 4251, 4252 Saxophone 2:11/24*:0	
		3452, 4451, 4452 Saxophone 4:2**:0	
		1254, 2253, 2254, 3253, 3254, 4253, 4254 Percussion 2:11/24*:0	
		3454, 4453, 4454 Percussion 4:2**:0	
		1258, 2257, 2258, 3257, 3258, 4257, 4258 String Bass 2:1½4*:0	
		3458, 4457, 4458 String Bass 4:2**:0	
		1262, 2261, 2262, 3261, 3262, 4261, 4262 Trombone or Baritone 2:1 ¹ / ₂ 4*:0	
	3461,	3462, 4461, 4462 Trombone or Baritone 4:2**:0	
	1263,	1264, 2263, 2264, 3263, 3264, 4263, 4264 Tuba 2:1½4*:0	
	3463,	3464, 4463, 4464 Tuba 4:2**:0	
		1272, 2271, 2272, 3271, 3272, 4271, 4272 Viola 2:1½4*:0	
	,	3472, 4471, 4472 Viola 4:2**:0	
		1274, 2273, 2274, 3273, 3274, 4273, 4274 Violin 2:11/24*:0	
		3474, 4473, 4474 Violin 4:2**:0	
	,		
		1282, 2281, 2282, 3281, 3282, 4281, 4282 Voice 2:1½4*:0	
		3482, 4481, 4482 Voice 4:2**:0	
		2284 Composition 2:11/24*:0	
		3284, 4283, 4284 Composition 2:1½4*:0	
	3483,	3484, 4483, 4484 Composition 4:2**:0	
	*One 30	minute private lesson and one one-bour class per week.	
	**One bo	our private lesson and one one-bour class per week.	
	Mus	sic Education Courses (MEd)	
	131	Elements of Music 3:	:3:0
		Designed to familiarize non-music majors with the meaning of musical notation and the harmonic, melodic	and
		rhythmic structure of music.	1.0
	311	Brass 1: Techniques and materials in the teaching of instrumental music in the elementary school. Trumpet and Horn.	:1:0
	312		:1:0
		Techniques and materials in the teaching of instrumental music in the elementary school. Trombone, Baritone	
		Tuba.	
	313		:1:0
	314	Techniques and materials in the teaching of instrumental music in the elementary school. Violin and Viola.  Strings  1:	:1:0
		Techniques and materials in the teaching of instrumental music in the elementary school. Cello and Bass.	.1.0
	315		:1:1
		Materials for the percussion instruments. Performance on all percussion instruments.	
	317		:2:0
		Basic marching maneuvers. Charting various types of half-time shows for football games, such as the pageant transfer and the precision drills, and arranging the music for these shows. Term project: a completely charted half-time shows.	
		with music.	
		•	

1:1:0

1:1:0

.1:0:3

331	Elementary Methods and Materials 3:3:0
00-	Techniques and materials in teaching of music in the lower elementary grades. The child's voice, rote singing;
	rhythmics, introduction of notation, creative music activities.
	Prerequisite: MTy 131 or equivalent.
332	Techniques and Materials in Teaching of Music in the Upper Elementary Grades 3:3:0
	Creative music, rhythmic activity, rote singing, reading of notation and effective use of materials.
	Prerequisite: MTy 131 or equivalent.
333	The Organization and Development of the High School Stage Band 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	Choral Music 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	Instrumental Music 3:3:0
	Materials and problems encountered in the instrumental music field of the high school. A detailed study of the
337	organization and administration of bands, orchestras, etc.  Choral Conducting 3:3:0
<b>33</b> /	Basic patterns and rudiments of choral techniques as applied to secondary school choral groups. Limited to music
	majors.
	Prerequisite: Some vocal study, piano keyboard, one year of vocal laboratory and music theory.
338	Instrumental Conducting 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	Seminar 1:1:0
	A general study of the problems encountered in music
411	Woodwinds 1:1:0
	Techniques and materials in the teaching of instrumental music the elementary school. Flute, Clarinet and
	Saxophone.
412	Woodwinds 1:1:0
	Techniques and materials in the teaching of instrumental music in the elementary school. Oboe and Bassoon.
430	Recording Techniques 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 harrier.
B.4	aia Laboratom. /MLb*
Mu	sic Laboratory (MLb)*
*Cour	es 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.

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.

Basic fundamentals of small ensemble jazz performance Must be taken concurrent with MLB 113 (Jazz Improvisa-

Organized to furnish training in all styles of dance band performance. Open to any student who can qualify.

113

114

115

117

Jazz Improvisation

Jazz Combo

tion).

Repertoire and Pedagogy

Designed to provide background in the art of improvisation.

Orchestra

instrument.

Marching Band

122

124

213

330

331

Piano Pedagogy

Jazz History

Music of Non-West Cultures

appreciational methods.

	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.
Mus	sic Literature Courses (MLt)
111, 1	
, -	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.
121-12	

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

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 music of China, Japan, and India will be examined by historical survey, by analysis of musical scores, and by other

reading through the use of recordings from the significant periods of music history.

the contribution of the performers, composers and compositions in the field of piano literature.

A survey of literature and advances made in the jazz field, with views to historical and cultural background.

Prerequisite: MLt 121 must be taken before MLt 122.

A performing ensemble open to all university students who can qualify. Required of any student majoring in a string

2:0:6

2:0:6

3:3:0

3:3:0

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.
334	Prerequisite: MLt 121-122 and MTy 232-233.  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.
	presentatine: Not noted to the latent before Music History 333, so long as prerequisites for Music History 333 have been satisfied.
335	Music of the Afro-American 3:3:0
333	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.
Mus	sic 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, 1	
-5-, -	Elementary keyboard and written harmony, sight singing; ear training.  Prerequisite: MTy 131 or by advanced standing exam.
232, 2	V
-5-, -	
	Advanced keyboard and written harmony; sight singing; ear training.
221 2	Prerequisite: MTy 133.
321, 3	
	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.
422	Prerequisite: MTy 233.  Orchestration 2:2:0
422	
	Techniques of writing and arranging for orchestral instruments in small combinations and for full orchestra.
425	Prerequisite: MTy 233. Band Arranging 2:2:0
425	
	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.*

# **Department of Allied Health**

Department Head: William David Short

254A Ward Health Sciences Building

Assistant Professors: Dunn, Bailey, Short

**Instructors:** Fearing, Reynard, Young

Clinical Instructors: Bronson, Godwin, Hayes, Huval, Meador, Wallace

**Adjunct Professors:** Baker, Barry, Bharathi, Darnell, Filler, Giglio, Gish, Jepson, Koehler, Maddox, Mayfield, Pinchback, Sampeck, Shaw, Sweet, Toups, Weaver

Part-time Clinical Instructors: Bradford, Kilchrist

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

^{*}These programs are offered with the approval of the Texas Education Agency.

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 department 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 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).
- 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 Health Care Concepts

2:2:0

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.

#### 330 Human Sexuality

3:3:0

A lecture and discussion class exploring the biological, psychological, social and cultural aspects of human sexuality for health professionals.

#### 430 Concepts of Loss

3:3:0

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.

#### 433 Concepts of Health Care Administration

3:3:0

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.

#### 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 I. 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.

First Year

# Associate of Applied Science — Dental Hygiene

### Recommended Program of Study

11190	TCai	
Summer Session I	Summer Session II	
Bio 143 Anatomy and Physiology	Bio 144 Anatomy and Physiology	
DH 131 Orientation to Dental Hygiene	DH 127 Morphology and Occlusion 2	
HS 121 Health Care Concepts	,	
	<del></del>	
9 .		
Fall Semester	Spring Semester	
DH 132 Dental Radiology	DH 137 Dental Materials	
DH 144 Head and Neck Anatomy and Physiology 4	DH 138 General and Oral Pathology3	
DH 145 Pre Clinic	DH 146 Clinic I	
Chem 143 Introductory Chemistry	Bio 245. Microbiology	
	14	
Secon	a rear	
Summer Session I Summer Session II		
English Composition4	DH 221 Diet Analysis	
HEc 138 Principles of Nutrition	DH 223 Periodontology	
- <del></del> -	4	
Fall Semester	Spring Semester	
Psych 131 Introduction to Psych	DH 225 Community Dentistry II	
DH 224 Pharmacology	DH 256 Clinic III	
DH 233 Community Dentistry I	English Composition	
DH 255 Clinic II5	Soc 131 Introduction to Sociology	
	15	

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

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

2:1:3

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

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

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

 $Comparative \ study \ of \ normal \ and \ diseased \ periodon tium \ and \ the \ effects \ of \ structural, \ functional \ and \ environmental \ agents.$ 

Prerequisite: Admission to the program.

#### 224 Pharmacology

2:2:0

Study of the uses and actions of drugs including drug side effects, contra-indications and oral manifestations. *Prerequisite: Admission to the program.* 

#### 225 Community Dentistry II

2:1:

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 bygiene program; DH 145 and 146.

#### 256 Clinic III

5:2:13

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

preventive maintenance of X-ray machines.

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**

Fi	rst Year
Summer Session I	Summer Session II
Bio 143 Anatomy and Physiology	
HS 121 Health Care Concepts	RA 131 Orientation to Radiologic Technology 3
	7
Fall Semester	Spring Semester
RA 132 Radiographic Principles	RA 133 Advanced Positioning & Pathology
RA 143 Radiographic Positioning	
Math	
Eng 131 English Composition	
RA 152 Radiographic Practicum I5	RA 154 Radiographic Practicum II
18	18
Sec	ond Year
Summer Session I	Spring Semester
RA 234 Radiographic Practicum III	
Summer Session II	RA 233 Radiation Biology
RA 235 Radiographic Practicum IV3	RA 264 Practicum VI6
Fall Semester	
RA 231 Special Procedures	
RA 242 Advanced Procedures	
RA 262 Radiographic Practicum V	
13	12
5	<b>(-</b> - )
Radiologic Technology Cours	es (RA)
131 Orientation to Radiologic Technology	3:2:3
	ganization, production of X-rays, radiation protection, darkroom
technique, terminology. Examinations performed	
132 Radiographic Principles	3:3:0
	nphasis on the relationship between milliamperage, kilovoltage,
	st on a radiograph. Film critique and dark room technique.
133 Advanced Positioning & Pathology	3:3:0
9	include Skulls, trauma, pediatrics and pathology identifications.
143 Radiographic Positioning	4:3:4
gg	ndications are explored. Topographic anatomy included.
144 Radiographic Physics	4:3:2
	nsformers, electrical rectification, production of X-rays and the
intensive study of electromagnetism, electric tra	nsiormers, electrical rectification, production of X-rays and the

#### 152 Radiographic Practicum I

5:0:24

Introduction to the clinical environment in affiliate hospitals. Rotation through different work centers to observe and assist in the operation of the radiology department.

Course requires 24 hours week of clinical participation.

#### 154 Radiographic Practicum II

6:0:24

Students make standard radiographs under close supervision by a qualified radiologic technologist. Course requires 24 hours week in clinical participation.

#### 231 Special Procedures

3:3:0 Procedures uncommon to the radiology department. Specialized equipment involved. Anatomy, contrast media and radiographic projections used. Analysis of film quality.

233 Radiation Biology 3:3:0

Effects of radiation on the human population, methods of protection and dosimetry. Basic principles of radiation therapy and nuclear medicine.

#### 234 Radiographic Practicum III

Clinical study to broaden the students' application of radiographic procedures. Proficiencies in diagnostic radiology will be emphasized.

Course requires 40 brs/week of clinical participation.

#### 235 Radiographic Practicum IV

3:0:40

A continuation of Ra 234 with increasing emphasis in diagnostic radiology. Course requires 40 brs/week of clinical participation. Prerequisite: Ra 234.

#### 236 Radiologic Technology Seminar

3:3:0

An indepth study of testing methodology. Also covered will be new advances in the field of radiology.

#### 242 Advanced Procedures

4:3:2

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.

#### 262 Radiographic Practicum V

6:0:32

Rotation through specialized procedure areas during clinical practice under limited supervision. Course requires 32 brs/week of clinical participation.

#### 264 Radiographic Practicum VI

6:0:32

Rotation through specialized areas in a radiology department. Emphasis on job responsibilities and confidence in skill performance.

Course requires 32 brs/week clinical participation.

### 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

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 technology/therapy program by April 15 of each year. These forms and the admission procedures are available from the program director, Ward Health Sciences Building.

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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**

necc	Annie nueu Program or Study	
	First	Year
HS 121	Summer Session I  Anatomy and Physiology 4 Health Care Concepts 2 Basic Respiratory Technology Care 2	Summer Session II  Bio 144 Anatomy and Physiology
	. 8	7
RT 141 RT 143	Fall Semester           Clinical Medicine I         2           RT Procedures I         4           RT Sciences         4           RT Clinic I         6           16	Spring Semester           RT 122 Clinical Medicine II.         2           RT 137 RT Procedures II         3           RT 138 Cardiopulm Tech         3           RT 161 RT Clinic II         6
	Secon	•
	Summer Session I  1 English Composition	Summer Session II  Eng 132 English Composition
	Fall Semester	Spring Semester
Math RT 221 RT 233	43 Introductory Chemistry       4	Bio 245 Intro Microbiology       4         Phy 141 General Physics       4         RT 234 RT Procedures IV       3         RT 235 RT Clinical IV       3
Res	piratory TechnologyTherapy	Courses (RT)
121	Clinical Medicine I	2:2:0
121		ditions important to the respiratory technician. Emphasis on
122	Clinical Medicine II	2:2:0
,	Prepares the student for the management of acute respiratory failure in newborn, pediatric, medical, surgical obstetric and gynecology patients. Respiratory therapy involvement is emphasized.	
	<b>Basic Respiratory Technology Care</b> A basic introduction to the concepts of oxygen care, p	2:2:0 hysical examinations, gas modalities and oxygen analyzers.
	Orientation to RT Practice	3:3:6
	An orientation to the concepts of oxygen manufact humidifiers, oxygen concentrators, and an indepth m	ture, transport and storage, flow meters, regulators, tanks, oduel in CPR.
137	Respiratory Therapy Procedures II	3:2:3
	Prepares the student to skillfully operate various volumby medical staff.	ne ventilators and to effectively administer assistance required
	Prerequisite: Concurrent enrollment in RT 138, 122,	
	Cardiopulmonary Technology	3:2:3
		respiratory therapy. Relates the cardiopulmonary systems to blood gas analysis, pulmonary function studies and chest

# physiotherapy.

Respiratory Therapy Procedures I 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.

4:3:2

- 143 Respiratory Therapy Sciences

  Basics of mathematics, chemistry, physics and microbiology as to
  - 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
  An advanced study of disease with emphasis on the diseases which compromise the function of the respiratory appratus.
- 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 neonatal 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 modalilties 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: Esperat, Gardner, Malone, Moss, Poole, Price, Twiname, Waugh Instructors: Boyd, Calhoun, Cloud, Hale, Mulford, Roberts, Slaydon, Smith, Wohler

**Instructor III:** Aycock

Instructor II: Kjelson, Rudloff, Stone

Instructor I: Mason

Clinical Instructors: Dickey, Diltz, Cartwright, Gilmore, Gregory, Kilpatrick, Richard, Richardson, Rosetta, Stanley, 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.)
- 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.
- 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.
- Admission may be limited by available space.

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 specialities, 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.
- 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 will 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	Second Semester	
Bio 143 Human Anatomy and Physiology 4	Bio 144 Human Anatomy and Physiology	
Chm 143 Introduction4	Chm 144 Introductory	
Psy 131 Introduction to Psychology3	Psy 234 Child Psychology	
HEc 138 Principles of Nutrition	Soc 131 Introduction to Sociology	
Eng 131 Composition	Eng 132 Composition	
HPE1	HPE1	
18	18	
	•	

#### Second Year

Second Teal		
First Semester	Second Semester	
Bio 245 Introductory Microbiology	Nur 221 Concepts Basic to Nursing Practice2	
Mth 1334 College Algebra3	Nur 284 Concepts and Practice of Clinical Nursing 8	
Nur 132 Basic Nursing Skills	Nur 332 Pharmacologic Basis of Nursing Practice 3	
Nur 233 Basic Pathophysiology	Eng 231 Literature	
Elective (Non Major)3	HPE	
HS 121 Health Care Concepts2		
HPE		

16

17

Prerequisite: Departmental consent.

Third Year		
	First Semester	Second Semester
Nur 32	28 Ecology of Nursing	Nur 331 The Community as a Client
Nur 39	1 Nursing Care of Adult Client9	Nur 382 Nursing Care of Childbearing Families 8
	1 American History	Nur 430 Research Process in Nursing
Electiv	re (Non Major)3	Gov 231 Introduction to American Government $13$
	17	17
	Fourtl	h Year
-	First Semester	Second Semester
Nur 48	31 Nursing Care of Childrearing Families8	Nur 491 Comprehensive Nursing Practice
Nur El	ective	Nur 433 Senior Seminar
	2 American History	Gov 232 Introduction to American Government II 3
Eng Li	terature (2)3	Elective (non-major)*
		*Students are encouraged to take this course if possible
		18
Bad	chelors Degree Nursing Cour	ses (Nur)
132	Basic Nursing Skills	3:2:3
		ls, mathematical and measurement skills and terminology.
	Required for all ADN and BSN applicants.	
221	Concepts Basic to Nursing Practice	2:2:0
	Introduction to selected concepts which serve as a fran	nework for nursing practice. Beginning integration of content
	from the natural, physical, and social sciences applied	to health care.
	Prerequisite: Admission to the BSN Program or depart	tmental consent.
233	Basic Pathophysiology	3:3:0
	Study of basic pathophysiology with emphasis on dise	ease processes. Focus on implications for nursing practice.
	Prerequisite: Admission to the BSN program or depart	ment consent.
284	Concepts and Practice of Clinical Nursing	8:3:15
	Beginning application of the nursing process. Empha	sis on health assessment and history taking.
	Prerequisite: Nur 132,233, admission to BSN Program	
328	Ecology of Nursing	2:2:0
		to aid understanding of contemporary practice. Emphasis on
	-	ssues and to the scientific approach to nursing. Focus on the
	inter-relatedness of nursing education and practice w	ithin the nearth care system.
3305	Prerequisite: Departmental consent.  Directed Study in Nursing	3:3:0
3307	•	
	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.	
	Prerequisite: Departmental consent.	ented to content taries.
331	The Community as a Client	3:3:0
-	•	delivery of health care to large and small groups. Emphasis is
	• • • • • • • • • • • • • • • • • • • •	hin the context of primary, secondary and tertiary health care.
	Prerequisite: Departmental consent.	
332	Pharmacologic Basis of Nursing Practice	3:3:0
	An introduction to pharmacology, principles of therap	peutics 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 pro	oviding 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	f health care.
	Prerequisite: Department consent.	
3334	•	3:3:0
		development including specific planning issues relating to
	facilities, services, and manpower.	
	Proroauisite: Detvartmental consent	

Opportunity to expand knowledge of theory and practice in selected areas of nursing. Course may be repeated as

Use of the nursing process in the care of children and their families facing crisis. This course covers the dynamics of

Provides the senior nursing student the opportunity to study and discuss complex nursing and health care issues.

3:3:0

3-3-0

3:3:0

content varies.

Senior Seminar

Media in Nursing

432

433

434

Prerequisite: Nur 391 and departmental consent.

the crisis situation and the adaptive responses of the child and family.

An introduction to the use and development of media in a variety of nursing settings.

Nursing of Children in Crisis

Prerequisite: Departmental consent.

Prerequisite: Department consent.

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

4.2.10

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 prospective.

### 481 Nursing Care of Childrearing Families

8:4:12

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.

G

### Associate of Science — Nursing

Program Director: Doris I. Price

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,

8:4:16

8:2:24

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 12	1 Health Care Concepts2	Nur 132 Basic Nursing Skills
	43 Human Anatomy and Physiology 4	Bio 144 Human Anatomy and Physiology
PE Ac	tivity	
	7-8	<del></del>
	Fall Semester	Spring Semester
Fng 1	31 Composition	Bio 245 Microbiology
Psv 12	Introduction	Eng 132 Composition
	61 Mental and Physical Health I6	Nur 172 Nursing Adult Client I
	31 Intro. Am. Gov. I	His 231 American History
	· · · · · · · · · · · · · · · · · · ·	17
_	15	
	mer Session I and II	
Nur 2	81 Maternity Nursing	
	Secon	d Yea <del>r</del>
	Fall Semester	Spring Semester
Nur 2	82 Nursing Child Client8	Nur 283 Nursing Adult Client II
	32 Intro. Am. Gov. II	His 232 American History
PE Ac	tivity	Eng Literature3
Soc 1	31 Introduction	
	15-16	14
	-, -,	
Δο	sociate Degree Nursing Cour	ses (Nur)
		3:2:3
132	Basic Nursing Skills	
		ls, mathematical and measurement skills and terminology.
	Required for all ADN and BSN applicants. Results in a	· · · · · · · · · · · · · · · · · · ·
161	Mental and Physical Health I	6:2:16
		ework for the nursing process. Includes physiology, nutrition,
	pharmacology, mental health, growth and developme	nt. Emphasis on technical, observational, and communication
	skills needed for effective nursing care.	
	Prerequisite: Nur 132, admission to ADN program.	
172	Nursing Care of the Adult Client I	7:3:16
	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 m	nental health.
	Prerequisite: Nur 161.	•
2101	2201, 2301, 2401 Special Topics in Nursing	1-4:1-4:0
2101		care Decimand to avanand the student's professional role in
		care. Designed to expand the student's professional role in
	various health care settings and areas of specialization	1.
	Prerequisite: Departmental consent.	
281	Maternity Nursing	8:4:16
	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.

physical and mental health. Introduction to management in hospital nursing service.

Application of all concepts included in the nursing process to hospitalized adults with complex disturbances in

Application of concepts basic to the nursing process to the hospitalized child.

Prerequisite: Nur 172.

Prerequisite: Nur 281.

Prerequisite: Nur 282.

Nursing Care of the Child Client

Nursing Care of the Adult Client II

282

283

163

### **Vocational Nursing**

Program Director: Sandra Boyd

Vocational Nurses provide basic nursing care under the direct supervision of a Registered Nurse. 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 75 per cent 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	VN 163 Nursing Skills II
VN 144 Anatomy	VN 136 Medical Surgical Nursing I
VN 122 Nutrition	VN 133 Pharmacology
VN 166 Clinical Practice I	VN 167 Clinical Practice II
19	. 18
Third Semester	•
VN 137 Medical Surgical Nursing II	
VN 138 Obstetrical Nursing3	
VN 139 Pediatric Nursing3	
VN 121 Personal and Vocational Adjustments2	
VN 168 Clinical Practice III	
17	· ·
1/	

Vo	cational Nursing Courses (VN)	
121	Personal and Vocational Adjustments	2:2:0
	Introduction to health care delivery systems, professional organizations, mechanics of licensure and tran graduate status.	sition to
122	Nutrition and Diet Therapy	2:2:0
	Fundamental principles of basic nutrition, the relationship of food to normal health and the application principles of nutrition to diet therapy in the treatment of disease.	of basic
133	Pharmacology	3:3:0
	This course is designed to introduce the student to pharmacology and the administration of medicines.	
136	Medical Surgical Nursing I	3:3:0
	Specific theory in the diseases and conditions of integumentary, special sensory, respiratory, endocrine, n and cardiovascular systems.	nuscular
137	Medical Surgical Nursing II	3:3:0

Specific theory in the disease and conditions of gastrointestinal, genitourinary, male and female reproductive, nervous and skeletal systems.

138 Obstetrical Nursing 3:3:0

Specific theory on the care of mothers and newborn infants.

139 Pediatric Nursing 3:3:0

Specific theory on the care of sick children.

144 Anatomy and Physiology 4:4:4

Anatomy and Physiology 4:4:0

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.

Nursing Skills II 6:2:8

Continuation of basic care skills, adding more complex skills such as drug administration, sterile technique and assisting with special procedures.

	Department of Psychology 231
166	Clinical Practice I 6:0:24
	Introduction to basic needs of hospitalized adults and children.
167	Clinical Practice II 6:0:24
	Refinement of skills presented in Clinical Practice I with emphasis on nursing care needs of adults and children experiencing common medical-surgical problems.
168	Clinical Practice III 6:0:24
	Continues development of skills from previous Clinical Practice with introduction to basic care of the obstetrical patient and newborn infant.
175	Nursing Skills I 7:2:8
	Presentation of basic patient care skills; basic microbiology; mental health and illness; personal and professional ethical and legal responsibilities.
Dep	Department of Psychology artment Head: Richard G. Marriott 103 Psychology Building
Prof	fessors: Barrington, Bell, Hawker
	ociate Professors: Die, Marriott, Walker
ASS1	stant Professors: Dubitsky, Esser, Lindoerfer, Mitchell
Bac	chelor of Arts — Psychology Major
	The degree of Bachelor of Arts in Psychology will be awarded upon completion of the
follo	wing.
	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
	injured the control to the control t

Major:

Psychology 131 Introduction to Psychology

Psychology 241 Statistical Methods in Psychology

Psychology 242 Methods in Psychology

Psychology Additional 15 semester hours, a minimum of 12 semester hours must be on the advanced level

An approved minor of 18 semester hours, a minimum of six semester hours must be on the advanced level

A sufficient number of approved electives to complete a total of 126 semester hours.

### **Recommended Program of Study**

First Year	Second Year
Bio 141, 142 General Biology8	Eng Literature:6
Eng Composition	Foreign Language6
Foreign Language	His Sophomore American History6
Mth6	Psy 241 Introduction to Statistical Methods
Psy 131 Introduction to Psychology3	Electives
PE Activity	PE Activity
21.22	22.26

Third Year	Fourth Year
Gov 231, 232 Introduction to American Government 6	Psy, Advanced
Psy 242 Methods in Psychology	Minor9
Psy Advanced 3 hrs	Electives
Minor9	
Electives	,
- 21	- 20
Total 126 Hours	

### **Bachelor of Science** — Psychology Major

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

1. General Requirements:

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 242 Methods in Psychology

Psychology 343 Experimental Psychology

Psychology Additional 15 semester hours, a minimum of nine semester hours must be on the advanced level.

3. Minor:

An approved minor of 18 semester hours a minimum of six semester hours must be on the advanced level

4. Electives:

A sufficient number of approved electives to complete a total of 128 semester hours.

### **Recommended Program of Study**

First Year	Second Year
Bio 141-142 General Biology	Eng Literature6
Eng Composition	Mth6
Mth6	Science
Science	Psy 242 Methods in Psychology
Psy 131 Introduction to Psychology3	Minor
Psy 241 Introduction to Statistical Methods 4	Electives
PE Activity	PE Activity2-4
33-35	31-33
Third Year	Fourth Year
Gov 231, 232 Introduction to American Government6	His Sophomore American History
Psy 343 Experimental Psychology	Psy Advanced
Psy	Minor6
Minor	Electives
Electives9	
31	33
Total 128 hours	

^{*}Deviations from the Mth 236, 237 sequence require prior approval of department head.

# *Bachelor of Science in Psychology

13 7 7 7 7

*Bachelor of Science in Biology

First Year	Second Year
Bio 141, 142 General Biology8	Chm 341, 342 Organic8
Chm 141, 142 General	Bio 240 Comparative Anatomy
Eng Composition	Bio 342 Embryology
Mth 1335 Precalculus Mathematics	Psy 242 Methods
Psy 131 Introduction to Psychology3	Eng Soph Literature6
Psy 241 Introduction to Statistical Methods 4	Mth 236 Calculus I
PE Activity	Mth 237 Calculus II
	Psy Electives
34-36	35
Summer	Third Year
Gov 231, 232 Introduction to American Government 6	His Sophomore American History
PE Activity	Phy 141, 142 General8
Electives	Bio 347 Genetics
	Bio 344 Advanced Physiology
	Psy 343 Experimental Psy
•	Psy Electives Adv 6 hrs9
14-16	35
Fourth Year	, , , , , , , , , , , , , , , , , , , ,
Bio 444 Vertebrate Natural History	•
Bio 416 Classical Biological Literature	
Bio 446 Ecology	
Bio 447 Cellular Biology	
Bio Electives	,
Psy Elective Adv	•
Electives	
37	•
	· · ·

^{*}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.

3:3:0

### 235 Adolescent Psychology

# 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.

#### 242 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.
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
2/2	and Psy 339.
343	Experimental Psychology 4:3:2
	Techniques to demonstrate and investigate concepts in psychology. Includes planning and executing an original
	research project.
410.6	Prerequisite: Psy 242. 20.430 Undergraduate Research 1-3:A:0
410,4	
	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 psychol-
	ogy. 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 experi-
	mental 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 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.
- 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
  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.



# **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 College of Technical Arts also offers courses and programs on campuses located in Orange and Port Arthur. Off-campus courses are offered in several cities in the area.

An Associate of Applied Science degree is awarded in the following fields of study: automotive mechanics; business data processing; child care technology; drafting technology; diesel mechanics; fire protection technology; electrical technology; electronics technology; general secretary; industrial electricity and electronics technology; industrial supervision; legal secretary; medical secretary; 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 upon satisfactory completion of one of the following programs: accounting clerk; appliance repair; automotive mechanics; clerical; cosmetology; 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 (Beaumont and Port Arthur)

Electrical Technology (Beaumont)

Fire Protection Technology (Beaumont)

Maintenance Pipefitting (Beaumont)

Occupational Safety and Health (Beaumont)

#### **Industrial Department**

Automotive Mechanics (Port Arthur)

Diesel Mechanics (Beaumont)

Machine Tools (Beaumont)

Refrigeration and Air Conditioning Technology (Beaumont)

Welding (Beaumont, Orange, Port Arthur)

### Related Arts Department

Business Data Processing (Beaumont)

Industrial Supervision (Beaumont and Orange)

Mid-Management (Beaumont, Orange, Port Arthur)

Property Tax Administration (Beaumont)

Real Estate (Beaumont, Orange, Port Arthur)

#### **Technical Department**

Drafting Technology (Beaumont, Orange, Port Arthur)

Electronics Technology (Port Arthur)

General Secretary (Orange and Port Arthur)

Industrial Electricity and Electronics Technology (Beaumont and Orange)

Legal Secretary (Port Arthur)

Medical Secretary (Port Arthur)

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 curriculm 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

### **Diploma Programs**

Three departments in the College of Technical Arts offer diploma programs in seven fields of study. The departments that offer these programs are:

### **Adult Training Progams**

Cosmetology (Port Arthur)

Marine Construction (Orange)

#### **Industrial Department**

Automotive Mechanics (Port Arthur)

Welding (Orange and Port Arthur)

### Technical Department (Orange and Port Arthur)

Accounting Clerk

Clerical

General Secretary

Legal Secretary

Medical Secretary

### Certificate Programs

In addition to the above degree and diploma programs, the College of Technical Arts offers Certificates of Completion in ten programs.

### **Adult Training Programs**

Child Care Technology (Port Arthur)

Fire Protection Certification School (Beaumont)

Maintenance Pipefitting (Beaumont)

Occupational Safety and Health (Beaumont)

Plant Maintenance and Operations (Beaumont and Orange)

#### **Industrial Department**

Appliance Repair (Beaumont)

Refrigeration (Beaumont)

Plate Welding (Beaumont)

#### Related Arts Department

Industrial Supervision (Beaumont and Orange)

Real Estate (Beaumont, Orange, Port Arthur)

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

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**

- 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.
- 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: No GRE, GMAT, or NTE scores more than 5 years old will be accepted except by special premission 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:

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 such 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 such 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.
- Students wishing to pursue the Master of Business Administration degree should refer to the College of Business section of the bulletin for specific requirements.
- 3. Provisional admission to the Graduate College for one term may be granted by the Graduate Dean to applicants who show promise of the ability to work successfully at the graduate level, 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 reenroll. International students will not be admitted on a provisional basis.
- 4. Admission applications from international students are evaluated on an individual basis after the following information is received:

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, all international students whose native language is not English are 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.
- C. an original statement of financial resources. The University provides a form for this purpose. Other forms will not be accepted.
- 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.
- 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. The Admission requirements stated above are *minimum* requirements for admission to the College of Graduate Studies. Applicants must also have the approval of the department in which the degree program is offered and must meet the specific requirements of that department. Prospective students should consult the college/department section of the Graduate Bulletin for those requirements.

### **Post Baccalaureate Admission**

- Students who wish to take graduate courses but do not intend to work toward a
  particular graduate degree, or who have not met all requirements for admission to the
  College of Graduate Studies, may be admitted as Post Baccalaureate students to 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.
- 4. No post baccalaureate student will be allowed to use hours in excess of 12 hours toward a graduate degree.
- Post baccalaureate students pursuing the MBA degree are not permitted to enroll in Business courses for graduate credit.

# **Directory of Personnel 1983-84**

**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.	
Merlin P. Breaux	Sour Lake
George A. Dishman, Jr	Beaumont

#### **General Administration**

Kemble, C. Robert, Ph.D., President
Johnson, Andrew J., Ph.D., Executive Associate to the President
Geddes, David D., Ph.D., Vice President for Academic Affairs
Leonard, W. S., M.S., Vice President for University Relations
Baxley, Oscar K., M.B.A., Vice President for Finance
McLaughlin, George E., Ed.D., Vice President for Student Affairs/Dean of Students
Hargrove, W. Richard, Ed. D., Assistant to the President/Dean for Academic Services
Johnson, Philip L., Ph.D., Executive Director, John E. Gray Institute
Wooster, Ralph A., Ph. D., Dean of Faculties

#### **Academic Administration**

Brentlinger, W. Brock, Ph.D., Dean, College of Fine and Applied Arts and Dean, Graduate Studies Bell, Myrtle L., Ed.D., Dean, College of Health and Behavioral Sciences
Johnston, Maxine, M.L.S., Director of Library Services
Monroe, W. Sam, LL.D., Provost, Lamar University at Port Arthur
Rode, Elmer G., Jr., M.Ed., Dean of Admissions and Registrar
Ryan, John A., Ph.D., Dean, College of Business
Schnur, James O., Ed.D., Dean, College of Education
Shipper, Kenneth E., Ph.D., Dean, College of Technical Arts
Welch, Joe Ben, Ed.D., Provost, Lamar University at Orange
Williams, Preston B., Ph.D., Dean, College of Arts and Sciences
Young, Fred M., Ph.D., Dean, College of Engineering

### **Faculty 1983-84**

The following list reflects the status of the Lamar University faculty as of January, 1982. 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, Reference Librarian, Instructor B.A., M.L.S., Louisiana State University

Achilles, Robert F. 1963, Regents' Professor of Speech B.S., McPherson College, M.A., Ph.D., Wichita State University

Adams, Howard W. 1956, Professor of Secondary Education B.A., Wayne State College, M.A., Ed.D., University of Nebraska

Akers, Hugh A. 1977, Associate Professor of Chemistry B.S., University of California, Riverside; Ph.D., University of California, Berkeley

Allen, Charles L. 1979, Associate Professor of Economics

B.A., East Texas State University; M.A., Ph.D., University of Arkansas

Allen, Joel L. 1960, Assistant Professor of Economics

B.S., Arkansas Agricultural and Mechanical College; M.S., Baylor University

Alliston, Wiley A. 1981, Instructor of Economics

B.B.A., M.S., North Texas State University

Altemose, John R., Jr. 1973, Associate Professor of Criminal Justice

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

Askew, Mary H. 1981, Instructor of Nursing

A.S., Miami Dade College; B.A., Duke University; M.P.H., University of North Carolina

Autry, Bruce C. 1982, Adjunct Instructor, English & Foreign Languages

B.A., UNC 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

Baj, Joseph A., II 1964, Associate Professor of Mathematics

B.A., Kent State University; M.A., University of Texas

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, Robert J. 1960, Regents' Professor of English

B.A., M.A., University of Kansas; Ph.D., University of Texas

Barr, John D. 1978, Lecturer of Health and Physical Education for Men, Assistant Football Coach B.S., University of Oklahoma

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

Baxter, Nick A. 1981, Assistant Professor of Special Education

B.A., Quincy College; M.Ed., Our Lady of the Lake University; Ph.D., North Texas State University

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

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 and Physical Education for Women

B.S., M.A., Ph.D., Texas Woman's University

Bell, M. Katherine 1962, Assoicate Professor of Mathematics, Acting Head, Department of Mathematics B.S., Florida State University, M.A., University of Cincinnati, Regents' Professor

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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

Benely, Fabienne 1982, Instructor, Economics

B.A., M.A., Eastern Illinois; DEUG, Sorbonne University

Bennett, Richmond O. 1957, Professor of Accounting

B.S., M.S., Texas A&M University; Ph.D., University of Texas; Certified Public Accountant

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

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, Curriculum & Instruction B.A., Kansas State; M.A., Our Lady of the Lake University

Bolton, Georgia H. 1980, Adjunct Instructor of Computer Science B.S., M.S., Texas Tech University

Bonton, Donald 1981, Instructor I of Drafting

A.A.S., Lamar University

Bost, David L. 1949, Professor of Secondary Education

B.A., Hardin-Simmons University; M.J., University of Texas; Ph.D., East Texas State University; Licensed Psychologist

Boughton, James K. 1980, Adjunct Associate Professor of Civil 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, Curriculum & Instruction

B.S., M.ED., University of S. Carolina; Ph.D., University of Georgia

Braud, Beverly 1979, Adjunct Instructor of English B.S., M.A., Louisiana State University

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

B.A., Greenville College; M.A., Indiana State University; Ph.D., University of Illinois

Briggs, Kenneth R. 1966, Regents' Professor of Secondary Education, and Acting Head, Department of Secondary Education

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

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, Curriculum & Instruction

B.S., University of Minnesota; M.S., College of St. Thomas; Ph.D., Texas Women's University

Brunson, Richard 1982, Associate Professor, Management, Marketing & Finance B.S., U.S. Military Academy; M.B.A., Babson College, Ph.D., Michigan State 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

Bryan, George A., Jr. 1964, Assistant Professor of Biology

B.S., University of Texas at El Paso; M.S., The Pennsylvania State University

Buller, Henry P. 1961, Assistant Professor of Psychology

B.A., Bethel College; M.Ed., University of Kansas

Burke, Charles M. 1970, Professor of Elementary Education and Head, Department of Elementary Education

B.A., Southeastern Louisiana University; M.Ed., Louisiana State University; Ed.D., University of Southern Mississippi

Burke, William Tunnell, III 1982, Assistant Professor of Business, Administrative Services

B.A., Morehouse College; J.D., Howard University Law Center

Burnham, Ronald D. 1981, Lecturer, Assistant Football Coach

B.S., Samford University; M.A., Livingston University

Bussell, Karen A. 1979, Lecturer of Health and Physical Education for Women, Women's Swim Coach B.S., Texas Tech University; M.S., Lamar University

Calhoun, Mary L. 1981, Instructor of Nursing

B.A., University of Missouri; Registered Nurse

Callicut, James L., Jr. 1981, Adjunct Instructor of English

B.A., M.A., University of South Carolina; Ph.D., Duke University

Calvert, Patricia H. 1979, Lecturer of Health and Physical Education for Women, Track Coach 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

A.A.S., Lamar University

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, Catalog Librarian, Instructor

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

Cater, Alice W. 1974, Instructor III of Real Estate

B.B.A., Southern Methodist University; M.B.A. University of Texas

Chattopadhyay, Tapan K. 1981, Visiting Lecturer in Mechanical Engineering

B.S.M.E., M.M.E., Ph.D., Jadavpur University

Chen, Daniel Hao 1982, Assistant Professor, Chemical Engineering

B.S., National Cheng Kung University; M.S., National Taiwan University; Ph.D., Oklahoma State

Cherry, Richard T. 1966, Regents' Professor of Finance, Head Department Management-Marketing-Finance

B.A., Texas A&M University; M.A., Ph.D., University of Texas

Chiasson, Sharon D. 1980, Instructor I, Related Arts

B.A., M.A., Lamar University

Choi, Jai-Young 1982, Assistant Professor, Economics

B.A., Yonsei University; M.S., 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

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Churan, Esther 1961, Acquisitions Librarian, Instructor

B.A., B.S., Texas Woman's University

Clark, Lynnwood M., Jr. 1972, Instructor II of Business Data Processing
B.S., Lamar University

Cloud, Patricia Charlene 1980, Instructor of Nursing

B.S.N., McNeese State University; M.S.N., University of Texas at Galveston; Registered Nurse

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

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/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 and Physical Education for Men

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, Assistant Professor of Psychology

B.S., Lamar University, M.Ed., University of Houston; Ph.D., Texas A&M University

Dietert, Linda 1980, Reference Librarian, Instructor

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 State University, M.S., Louisiana State University

Dorris, Kenneth L. 1965, Associate Professor of Chemistry B.S., Ph.D., University of Texas

Drenan, Raymond L. 1962, Associate Professor of Sociology B.S., University of Illinois, M.P.S., University of Colorado

Drury, Bruce R. 1971, Professor of Government

RA MA University of Nebraska: Ph.D. University of Florid.

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, Serials Librarian, Instructor 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 L. 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 Electricity and 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

Ellenburg, Renee A. 1982, Instructor I, Adult Training B.S., Texas Tech University

Elliff, Connie Jo 1976, Instructor of Home Economics

B.S., Southwest Texas State University; M.S., Kansas State University; Registered Dietitian

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

Esser, James K. 1982, Assistant Professor, Psychology B.S., University of Iowa; Ph.D., Indiana University

Fearing, Ruth O. 1980, Clinical Instructor of Dental Hygiene

B.S., Northeastern University; M.S., Boston University School of Denistry; Registered Dental Hygienist

Fitzgerald, Meredith K. 1970, Assistant Professor of Elementary Education

B.S., Bethel College, M.A., George Peabody College for Teachers

B.A., Bethel College; M.A., George Peabody College for Teachers Fitzgerald, William T. 1951, Associate Professor of Biology 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

Foster, Pat 1980, Lecturer of Health and Physical Education for Men, Head Basketball Coach B.S., University of Arkansas

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Francis, Nathan Travis 1962, Associate Professor of Modern Languages
B.A., Texas Tech University; M.A., Texas Christian University; Ph.D., Texas Tech University

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Frankland, L. Ann 1981, Adjunct Instructor of English B.A., M.A., East Texas State 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 and Physical Education for Men B.S., Lamar University, M.S., University of Texas

Federick, Maurice, Jr. 1982, Instructor I Refrigeration & Air Conditioning, Industrial

Frissell, Harry L. 1958, Professor of English

B.A., Southwestern University; M.A., Ph.D., Vanderbilt University

Gardner, Karen L. 1980, Assistant Professor of Nursing
A.A., St. Petersburg Junior College; B.S.N., Florida State University; M.S.N., Texas Woman's University; Registered Nurse

Gardner, Kathryn A. 1979, Instructor II 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

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 State; M.A., University of Texas

Ghezzi, Debby L. 1980, Lecturer of Health and Physical Education for Women, Women's Tennis Coach B.S., M.Ed., Ohio University

Gibson, Delbert L. 1959, Professor of Sociology

B.S., Baylor University; Th.M., Southwestern Baptist Theological Seminary; M.A., Ph.D., University of Texas

Gierlinski, Jacek T. 1983, Assistant Professor of Civil Engineering
M.S., The University of Technology, Warsaw; Ph.D., Polish Academy of Sciences.

Gilligan, James P. 1972, Instructor of Health and Physical Education for Men, 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

Goulas, Fara M. 1975, Assistant Professor of Special Education Education

B.S., Lamar University; M.S., University of Colorado

Green, Annie Sue 1964, Assistant Professor of Mathematics B.A., M.S., Lamar University Green, Marcia L. 1972, Instructor II of Related Arts

B.A., Bishop College; M.A., Stephen F. Austin State University; M.Ed., Lamar University

Green, Steve 1981, Lecturer, Assistant Basketball Coach B.S.E., Oklahoma Christian College

Greene, Jesse Laurence 1980, Adjunct Instructor of English

B.A., Prairie View A&M College; M.A., University of Southern California; Ph.D., University of Texas at Austin

Greenockle, Karen M. 1974, Instructor of Health and Physical Education for Women B.S., Texas Christian University, M.S., Lamar University

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 and Physical Education for Women B.S., M.S., Northwestern State University of Louisiana

Griffin, Vernon H. 1970, Professor of Elementary Education, Director of Certification and Graduat Studies

B.S., M.Ed., Sam Houston State University; Ed.D., University of Houston

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 (U.K.)

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

Hale, Elizabeth Ann 1979, Instructor of Nursing B.S.N., University of Texas at Houston; M.S.N., University of Texas at Galveston; Registered Nur

Hansen, Elizabeth C. 1981, Adjunct Professor of Mathematics

B.S., M.S., Texas A&M University

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 Elementary Education, Dean, Division of Academic Service and Assistant to the President

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 Univers

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

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 Secondary Education

B.S. Lamar University: M.A. Central Michigan University: Ed.D. University of Hou

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 and Physical Education for Men B.A., Trinity University; M.Ed., University of Houston

Hill, Rebecca O. 1965, Assistant Professor of 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

Ho, Tho-Ching 1982, Assistant Professor, Chemical Engineering B.S., National Taiwan University, M.S., Ph.D., Kansas State University

Hogue, Bradley B. 1967, Professor of Elementary Education

B.A., M.Ed., Southern Methodist University; Ed.D., North Texas State University

Holland, DeWitte T. 1971, Professor of Speech and Head, Department of Communication 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

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Holland, Mary M. 1976, Circulation Librarian, Instructor

A.B., Birmingham Southern College; M.L.S., Drexel University

Holm, Belle Mead 1963, Professor of Health and Physical Education for Women, Head, Department of Health and Physical Education for Women, Director of Intercollegiate Athletics for Women 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 and Physical Education for Women 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

Huang, Wen-Lee 1979, Adjunct Instructor of Computer Science

B.S., M.S., Southern Illinois University

Hudson, Jean Marie 1951, Assistant Professor of Accounting

B.A., Carleton College; M.A., University of Oklahoma; Certified Public Accountant

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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

Ingalls, Arthur B. 1981, Captain/Assistant Professor of Military Science B.A., Stephen F. Austin State University

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R.A. Pepperdine College: M.A. Ph.D. Unive

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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, 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

B.A., M.S., Florida State University; Ph.D., Kent State University

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Jolly, Sidney W., Jr. 1971, Associate Professor of Health and Physical Education for Men, Head Track Coach

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, Adult Training

Jones, Kirkland C. 1973, Associate Professor of English

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Jones, Phillip B. 1982, Instructor I, Technical Department A.A.S., Lamar University

Jones, Richard W. 1975, Associate Professor of Accounting

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B.S., East Texas Baptist College; B.S., Lamar University; M.S., Air Force Institute of Technology

Jordan, Jimmie L. 1982, Assistant Professor, Geology B.S., Lamar University; Ph.D., Rice University

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B.F.A. - Art - Idaho State University

Kelly, Patricia A: 1981, Lecturer/Assistant Basketball Coach B.S., Slippery Rock State College; M.A.Ed., Carolina University

Kemp, Gay L. 1981, Research Assistant B.A.T., Sam Houston State University

Kilpatrick, Ruby 1977, Clinical Instructor of Nursing Registered Nurse

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B.B.A., M.B.A., Southern Methodist University; Ph.D., The University of Houston King, Jess Freeman 1978, Assistant Professor of Communication

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Kindl, Jamie B. 1982, Instructor of Dance, Health, Dance, Women's Physical Education B.A., M.A., Butler University

Kirksey, C. D. 1946, Professor of Business Statistics

B.S., M.S., North Texas State University; Ph.D., University of Texas

Kjelson, Edna M. 1968, Instructor II of Nursing

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Koh, Hikyoo 1981, Assistant Professor of Computer Science

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Kumar, Subodh 1981, Associate Professor of Civil Engineering B.Tech, I.I.T., Kharagpur; M.Tech, I.I.T., Bombay; M.S., Iowa State University; Ph.D., University of Oklahoma; Registered Professional Engineer.

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

Lane, James E. 1967, Assistant Professor of Special Education B.S., Abilene Christian University; M.Ed., Lamar University

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Lauffer, Charles H. 1962, Assistant Professor of Mathematics B.S., M.S., Auburn University

Lawrence, Robert J. 1958, Instructor III of Industrial Electricity and 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

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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 and Physical Education for Women B.S., Howard College; M.S., Alabama College; Ph.D., Florida State University

Lowrey, Norman E. 1967, Supervisor of Adult Training

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Ma, Li-Chen 1972, Associate Professor of Sociology B.S., M.S., National Taiwan University; Ph.D., University of Georgia

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B.A., Centenary College; M.F.A., University of Arkansa: Mades, John W. 1964, Instructor of Mathematics

B.A., Millikin University, M.A., University of Missouri Mainord, Robert A., Jr. 1981, Instructor I of Electronics

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McIntosh, Edward R. 1971, Associate Professor of Elementary Education B.S., University of Florida; M.S., Florida State University; Ed.D., Michigan State University

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Mock, Ralph K., Jr. 1966, Instructor IV and Program Coordinator of Drafting Technology

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Moulton, Robert D. 1974, Associate Professor of Speech, Director of Speech Pathology B.S., M.S., University of Utah, Ph.D., Michigan State University

Mulford, Virginia Barbara 1979, Instructor of Nursing

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Murray, M. Kathleen 1973, Instructor and Head, Library Technical Services B.A., Bryn Mawr College; M.L.S., University of Texas

Neumann, Edna L. 1976, Professor of Nursing

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Newberry, Rosario I. 1975, Instructor of Health and Physical Education for Women B.S., Lamar University, M.S., Texas Tech University

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B.S., Lamar University; M.S., Ph.D., Purdue University

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Owens, Howell C. 1981, Assistant Professor of Business Law B.B.A., University of Texas; J.D., University of Houston Law School

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A.B., M.S., University of Illinois; Ph.D., University of Nebraska

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Parks, Walter I., Jr. 1981, Instructor of Music B.M., M.M., Illinois State University

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Pate, Martha B. 1978, Adjunct Instructor, Department of Mathematics B.S., M.S., Lamar University

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B.A., Tift College; M.A., M.Ed., Lamar University; M.A., Ph.D., Rice University

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Ramke, Henry Herman, Jr., 1981, Instructor I of the Technical Department B.S., Louisiana State University

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B.A., Louisiana Tech University; M.A., University of Denver; Ph.D., Louisiana State University

Rennebohm, Fern H. 1982, Department Head and Professor, Home Economics B.S., M.S., Ph.D., University of Wisconsin

Rettke, Robert C. 1980, Assistant Professor of Geology

B.A., M.A., State University of New York-Buffalo; Ph.D., Case Western Reserve University

Reynard, Betty Jane 1979, Clinical Instructor of Dental Hygiene A.A.S., Lamar University; Registered Dental Hygienist

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B.A., University of Texas; M.A., Trinity University; Ph.D., University of Tulsa

Richard, Connie J. 1979, Clinical Instructor of Nursing

B.S.N., St. Mary's School of Nursing; Registered Nurse

Richardson, Eda 1976, Clinical Instructor of Nursing

B.S., Marymount College, M.S., Kansas State College, Pittsburg, Registered Nurse

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B.S., University of Louisville; M.S., Ph.D., Northwestern University

Riley, John F. 1981, Assistant Professor of Elementary Education B.A., M.Ed., Auburn University; Ed.D., University of Georgia

Rivers, Gail P. 1975, Instructor of Dental Hygiene

B.S., M.Ed., Lamar University; Registered Dental Hygienist

Roberts, Katherine 1976, Clinical Instructor of Nursing B.S.N., University of Texas; Registered Nurse

Rogan, Robert C. 1961, Professor of Art and Head, Department of Art

B.A., Washburn University; M.F.A., University of Iowa; Ed.D., The University of Kansas

Rogas, Dan W. 1955, Assistant Professor of Health and Physical Education for Men, Athletic Business Manager

B.S., Tulane University; M.S., Lamar University

Rogers, Bruce G. 1961, Professor of Civil Engineering

B.S., University of Houston; M.S., Ph.D., University of Illinois; Registered Professional Engineer

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Rosetta, Olinda 1975, Clinical Instructor of Nursing

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Roth, Lane 1978, Assistant Professor of Communication

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

Royse, Carolyn Ruth 1982, Assistant Professor of Business Law, Administrative Services B.A., University of Houston; J.D., Texas Tech

Rudloff, Virginia 1964, Instructor II of Nursing

Diploma, Hotel Dieu School of Nursing, Registered Nurse

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Rule, Henry B. 1960, Regents' Professor of English B.A., University of Texas; M.A., Columbia University; Ph.D., University of Colorado

Runnels, William C. 1965, Associate Professor of Biology

B.S., M.S., Texas A&I University; Ph.D., Texas A&M University

Ryan, John A. 1975, Professor of Marketing, Dean, College of Business

B.S., University of Southern California, M.B.A., Ph.D., The University of Texas

Ryan, William L. 1978, Assistant Professor, Library

B.S., Northwest Missouri State University; M.L.S., M.A., Ed., Specialist-Instructional Media, University of Missouri

Sanders, L. Thomas 1974, Assistant Professor of Government

B.A., Louisiana State University; M.A., University of Michigan; Ph.D., University of Michigan, Ann

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B.A., M.A., Vanderbilt University; Ph.D., Johns Hopkins University

Scarber, Tena Carroll 1979, Clinical Instructor of Respiratory Technology

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Schroeter, William 1977, Adjunct Instructor of Real Estate

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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 Secondary 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 and Physical Education for Men, Assistant Track Coach B.S., M.S., Lamar University

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Shipper, Kenneth E. 1971, Dean, College of Technical Arts

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Shmider, Edward 1980, Associate Professor of Music

Bachelor's in Music, Musorgsky Musical College; Master's in Music and Aspirant Degree, Gnessin Music Academy, Moscow

Short, W. David 1974, Instructor 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

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Singh, Ramchandra S. 1977, Associate Professor in the Department of Civil Engineering B.S., Nagpur University, M.S., University of Illinois; Ph.D., University of Wisconsin Slaydon, Bessie 1980, Instructor of Nursing

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Smith, Bobbie L. 1981, Master Sergeant, Military Science B.A., Columbia College

Smith, Frances J. 1977, Instructor of Nursing

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Smith, Kevin B. 1981, Assistant Professor of Sociology

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Smith, Wayne S. 1981, Major/Professor of Military Science B.A., Troy State University

Snider, Walter D. 1978, Assistant Professor of Business Law B.A., L.L.B./J.D., Baylor University

Snyder, Phillip B. 1972, Professor of Secondary Education B.S., Trinity University; M.Ed., Ph.D., University of Texas

Sommerfeld, John F. 1978, Instructor of Art B.F.A., M.S., University of Wisconsin

Sontag, Monty L. 1972, Professor of Special Education

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Spradley, Larry W. 1972, Professor of Business Statistics

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Stahl, Deanna K. 1972, Instructor IV of Technical Mathematics

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Standley, Troy 1975, Instructor III of Fire Protection Technology and Coordinator, Fire Training Program

LL.B., Baylor University

Stanley, William H. 1973, Associate Professor of Secondary Education

B.S., North Texas State University; M.Ed., Hardin-Simmons University; Ed.D., North Texas State University

Stark, Jeremiah M. 1956, Professor of Mathematics

B.S., United States Coast Guard Academy; B.S., North Texas State University; S.M., Ph.D., Massachusetts Institute of Technology

Steiert, Alfred F. 1966, Assistant Professor of Management and Director of Advising Center B.S., M.B.A., University of Florida

Stevens, James B. 1970, Associate Professor of Geology

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Stevens, Manfred 1960, Professor of Government and Head, Department of Government B.A., M.A., University of Oklahoma; Ph.D., University of Michigan

Stidham, Ronald 1970, Associate Professor of Government

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Stiles, JoAnn, K. 1966, Assistant Professor of History B.A., M.A., University of Texas

Stone, Faye N. 1968, Instructor II of Nursing

Diploma, Harriet L. Mather School of Nursing, Southern Baptist Hospital; Registered Nurse

Storey, John W. 1968, Professor of History

B.A., Lamar University; M.A., Baylor University; Ph.D., University of Kentucky

Strickland, Arney, L. 1969, Professor of English and Acting Director, English as Second Language Program

B.A., M.A., Lamar University; Ed.D., Ball State University

Suiter, Coleta Faye 1980, Adjunct Instructor of Home Economics

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Summerlin, Charles T. 1973, Assistant Professor of English, Director of Freshman English B.A., Abilene Christian University, M.Ph., Ph.D., Yale University

Sutton, Walter A. 1963, Professor of History

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Swerdlow, Robert A. 1978, Associate Professor of Marketing, Graduate Coordinator, MBA Program B.B.A., M.B.A., Lamar University; Ph.D., University of Arkansas

Taylor, David G. 1955, Associate Professor of Marketing B.A., M.A., Baylor University

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Taylor, Ruth 1977, Associate Professor of Nursing B.S.N., M.S.N., Hunter College of City University of New York; M.Ed., Fordham University, Registered Nurse

Tennissen, Anthony C. 1963, Regents' Professor of Geology

B.S., University of Tulsa; M.S., Syracuse University; Ph.D., University of Missouri-Rolla

Thames, Dorothy Fave 1957, Assistant Professor of Mathematics

A.B., Birmingham-Southern College; M.A., George Peabody College for Teachers

Thomas, Robert Blaine 1960, Professor of English

B.S., Virginia Polytechnic Institute and State University; M.A., M.S., Ph.D., Louisiana State University

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Tims, George B., Jr. 1951, Professor of Industrial Engineering, Director of Cooperative Education B.S., M.S., Oklahoma State University; Registered Professional Engineer

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Tucker, William R. 1956, Regents' Professor of Government

B.A., M.A., University of Oklahoma; Ph.D., University of Geneva

Turco, Charles P. 1965, Professor of Biology, Director of Research and Programs
B.S., Saint John's College; M.S., M.S.Ed., Saint John's University; Ph.D., Texas A&M University

Twiname, B. Gayle 1979, Instructor of Nursing

B.S.N., University of North Florida; M.S.N., Medical College of Georgia; Registered Nurse

Urbano, Victoria Eugenia 1966, Regents' Professor of Modern Languages

B.A., Colegio Superior; M.A., Ph.D., Universidad de Madrid

Utter, Glenn H. 1972, Associate Professor of Government

B.A., State University of New York at Binghamton; M.A., Ph.D., State University of New York at Buffalo

Vanzant, Howard C. 1966, Professor of Mathematics

B.S., University of Texas at El Paso; M.S., Ph.D., University of Florida

Vaughn, Charles J. 1982, Adjunct Instructor, English & Foreign Languages

B.A., Indiana University; M.A., Southwestern University

Vaughn, Jeannette W. 1954, Assistant Professor of Office Administration

B.A., Texas Woman's University; M.B.A., University of Texas

Veuleman, Malcolm W. 1970, Professor of Accounting and Head, Department of Accounting B.S., McNeese State University; M.B.A., Ph.D., University of Arkansas; Certified Public Accountant

Vint, Robert Lee, III 1981, Lecturer, Assistant Basketball Coach

B.S.E., M.S.E., University of Arkansas

Viviani, G.L. 1982 Assistant Professor of Electrical Engineering B.S., M.S., Ph.D., Purdue

Wakeland, William R. 1978, Professor of Electrical Engineering

Head, Department of Electrical Engineering

B.S., U.S. Naval Academy; M.S., Naval Postgraduate School; Ph.D., University of Houston; Registered Professional Engineer

Waldron, Bobby R. 1970, Associate Professor of Computer Science

and Director, Division of Computer Science

B.S., Louisiana College; M.S., Northwestern State University of Louisiana; Ph.D., Texas A&M University

Walker, Delia A. 1979, Instructor II of Drafting Technology A.A.S., Lamar University

Walker, James L., Jr. 1969, Associate Professor of Psychology B.A., Baylor University; Ph.D., Texas Tech University

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

Wall, George B. 1965, Professor of Philosophy

B.A., Occidental College; B.D., Fuller Theological Seminary; Ph.D., University of Southern California

Certificate in Respiratory Therapy, Southern Community State College; Associate of Science, Denver Community College; Registered Respiratory Therapist; Registered Nurse

Walsh, Dennis M. 1978, Lecturer of Health and Physical Education for Men, Assistant Basketball Coach B.A., Providence College; M.S., Lamar University

Warren, Michael E. 1966, Professor of Biology and Head, Department of Biology B.A., M.A., Ph.D., University of Texas

Watt, Joseph T., Jr. 1965, Professor of Electrical Engineering

B.A., B.S., Rice University; M.S., Ph.D., The University of Texas; Registered Professional Engineer

Waugh, Darimell 1979, Assistant Professor of Nursing B.S.N., Florida A&M University; M.S.N., Wayne State University; Registered Nurse

Wesbrooks, Ronald L. 1969, Instructor of Health and Physical Education for Men, Tennis Coach B.S., Eastern New Mexico University, M.S., Lamar University

Wesley, Carey B. 1966, Instructor IV of Welding
A.A.S., Lamar University

Western, Peggie S. 1982, Adjunct Instructor, English and Foreign Languages B.S., Midwestern State; M.A., A.B.D., Texas Women's University

Wheeler, Marjorie 1970, Head, Library Reference Services, Assistant Professor A.B., Smith College; M.A., Johns Hopkins University

White, Charles W. 1980, Associate Professor of Marketing

B.B.A., M.B.A., Baylor University; D.B.A., Mississippi State University

White, Kathryn 1973, Professor of Office Administration

B.S., M.S., Oklahoma State University; M.R.E., Southwestern Baptist Theological Seminary; Ed.D., Oklahoma State University

White, William F. 1982, Professor, Professional Development & Graduate Studies A.B., St. Bernard's College; Ed.M., University of Buffalo; Ph.D., SUNY

Whittle, John A. 1969, Professor of Chemistry B.S., University of Glasgow; Ph.D., University of London, Imperial College

B.S., University of Glasgow; Ph.D., University of London, Imperial College Wiley, Charles A. 1952, Regents' Professor of Music, Director of Bands

B.S., Texas Tech University; M.M., University of Texas; Ed.D., University of Colorado

Wilkerson, Robert H. 1964, Assistant Professor of Communication

B.A., M.A., University of Oklahoma

Williams, Donald E. 1952, Associate Professor of Management B.A., M.A., Ed.D., North Texas State University

Williams, Harry L. 1968, Vocational Counselor

B.B.A, Stephen F. Austin State University; M.Ed., Lamar University

Williams, James A. 1982, Instructor I, Technical Department

Wills, Curtis E. 1971, Associate Professor of Secondary Education
B.S., M.Ed., Sam Houston State University; Ed.D., North Texas State University; Licensed Psycholo-

gist Wills, Linda M. 1979, Lecturer of Health and Physical Education for Women, Volleyball Coach

B.A., Long Beach State University; M.A., Northern Arizona State University

Wilmore, Brenda C. 1982, Clinical Instructor, Nursing B.S., Lamar University

Wilsker, Donna 1977, Assistant Professor of Nursing

B.S.N., University of Bridgeport; M.S.N., University of Maryland, Registered Nurse

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 I., 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 and Coordinator of Management and Finance Programs

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 and Physical Education for Men, Director of Intramurals for Men

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 and Physical Education for Men B.S., M.S., Louisiana State University; Ed.D., University of Houston

And the special state of the second

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, Dean, College of Sciences, and Dean, College of Graduate Studies

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

Zajta, Aurel J. 1982, Visiting Professor of Mathematical Sciences, Mathematics Diploma, L. Eotvos University & Agricultural University; Ph.D., Kossuth University

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 and Physical Education for Men, Athletic Trainer B.S., University of Texas at El Paso

Zurlo, John A. 1980, Adjunct Instructor of English B.A., M.A., University of Texas at Arlington; M.A., State University of New York

#### Part-Time Faculty

Adams, Frank A. 1975, Adjunct Instructor of Real Estate B.A., Vanderbilt University; J.D., University of Texas

Adams, Lucien J., III 1981 Adjunct Instructor of Chemical Engineering B.S., University of Southwestern Louisiana

Adams, Marilyn A. 1976, Adjunct Instructor of Business Law B.A., University of Texas; J.D., South Texas College of Law

Allen, Jeraldine N. 1981, Clinical Instructor of Radiologic Technology A.A.S., Lamar University; Registered Radiographer

Baker, Blanch J. 1980, Adjunct Instructor of Mathematics B.A., Lamar University; M.A., Ph.D., University of Texas at Austin

Barnes, Geralann 1981, Adjunct Instructor of Related Arts

Barrington, Peggy 1981, Adjunct Instructor of Office Administration B.B.A., Lamar University; M.B.A., Sam Houston State University

Barry, Gene Norman D.D.S., Adjunct Instructor of Dental Hygiene B.S., University of Houston; D.D.S., Harvard School of Dental Medicine

Berwick, John E. 1978, Adjunct Instructor of Refrigeration and Air Conditioning A.A.S., Lamar University

Bickings, Jayne 1981, Adjunct Instructor of Communications

B.S., M.A., Texas Women'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

Bledsoe, Richard W. 1980, Adjunct Instructor of Industrial Electricity and Electronics Technology

Bohrer, Lyle E. 1946, Assistant Professor of Electrical Engineering

B.S., Rice University; M.S., University of Colorado; Registered Professional Engineer

Brown, Gerald 1981, Adjunct Instructor of Fire Technology

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

Campbell, Vera H. 1966, Assistant Professor of Speech

B.A., Morningside College; M.A., University of Northern Colorado; Certificate, New York University

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

Cavaliere, Jose A., Jr. 1980, Adjunct Instructor of Civil Engineering B.S.C.E., M.B.A., M.Egr., Rensselaer Polytechnic Institute

Clark, Dorothy J. 1980, Adjunct Instructor of Business Data Processing B.B.A., Lamar University

Cole, Joanne Beth 1981, Clinical Instructor of Dental Hygiene Registered Dental Hygienist

Coody, Betty F. 1963, Regents' Professor of Elementary Education B.A., East Texas State University; M.Ed., Ph.D., University of Texas

Craigue, William 1980, Adjunct Instructor in the Department of Civil Engineering

Crutchfield, Joe Wayne 1980, Adjunct Instructor of Criminal Justice

B.S., Lamar University

Daigle, Elizabeth Farr 1981, Adjunct Instructor of Related Arts

De Blanc, Michael 1981, Adjunct Instructor, Technical Department A.A.S., Lamar University

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

Droddy, Volley C. 1978, Adjunct Instructor of Maintenance Pipefitting

Eddy, Louise 1980, Adjunct Instructor of Communication B.S., M.S., Lamar University

Farrar, W. Fred 1967, Associate Professor of Accounting

B.A., Louisiana Tech University; M.B.A., University of Texas; Certified Public Accountant

Franks, Wanda 1977, Adjunct Instructor of Related Arts B.S., M.Ed., Lamar 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

Gray, Nancy Feeling 1981, Adjunct Instructor of Related Arts

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

Hardy, Thomas J. 1979, Adjunct Instructor in the Department of Electrical Engineering B.S., U.S. Naval Academy, M.S., Texas A&M University

Hartford, William H. 1973, 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

Hayes, James L. 1974, Adjunct Instructor of Accounting B.B.A., University of Texas

Hebert, Lisa 1981, Research Assistant, Department of Communication B.S., University of Southern Louisiana

Henry, W. R. 1976, Adjunct Associate Professor in the Department of Civil Engineering B.S., M.S., East Texas University

Herbert, Herman G. 1980, Adjunct Instructor of Refrigeration and Air Conditioning Technology A.A.S., Lamar University

Herrington, Thomas R. 1978, Adjunct Instructor of Welding A.A.S., Lamar University

Hidalgo, Robert A. 1980, Adjunct Instructor of Business Data Processing B.S., Lamar University

Hillin, Celeste 1981, Staff Audiologist, Department of Communication B.S., M.S., Lamar University

Holmes, John A. 1980, Adjunct Instructor of Plant Maintenance A.A.S., Lamar University

Hornack, Mary M. 1979, Adjunct Instructor of Child Care Technology

B.S., M.Ed., East Texas State University

Houseman, Robert 1978, Adjunct Instructor of Real Estate Huckaby, Dennis 1981, Adjunct Instructor of Related Arts B.S., Lamar University

Innman, Ben W., Jr. 1980, Adjunct Instructor of Diesel Mechanics

A.A.S., Lamar University 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, Harvey C. 1971, Professor of Secondary Education

B.A., Texas College; M.A., University of Michigan; Ed.D., University of Southern California

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

Kavanaugh, Stephen P. 1980, Adjunct Instructor in the Department of Mechanical Engineering

Kaye, Lory 1981, Adjunct Instructor of Office Administration

B.B.A., Lamar University Kilpatrick, Ruby N. 1977, Clinical Instructor of Nursing

B.S.N., Lamar University, Registered Nurse

Kinard, Penne 1981, Adjunct Instructor of Child Care Technology B.S., Lamar University

Klaus, Mary A. 1977, Adjunct Instructor of Child Care Technology

B.S., M.S., University of Missouri Knippel, Jeanette M. 1980, Adjunct Instructor of Child Care Technology

B.S., North Texas State University; M.Ed., Texas Woman's University

Koehler, Joel 1978, Adjunct Professor of Dental Hygiene B.S., Texas A&M University; D.D.S., University of Texas Dental Branch-Houston

Laird, Gary 1975, Adjunct Instructor of Special Education B.S., M.A., Lamar University

Landes, J. D. 1946, Professor of Accounting

B.A., M.S., North Texas State University; Ph.D., University of North Carolina

Landegren, G. F. 1946, Associate Professor of Physics B.S., Texas A&I University; M.A., University of Texas

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

Louvier, Sharon K. 1980, Adjunct Instructor of Related Arts

B.S., M.S., Lamar University

Lovelace, Daryl G. 1979, Adjunct Instructor of Drafting Technology

Mainord, Robert A., Jr. 1980, Adjunct Instructor of Industrial Electricity and Electronics Technology B.S., Lamar University

Mang, Conrad D. 1969, Professor of Elementary Education

B.S., M.Ed., M.L., University of Houston, Ed.D., University of Texas

Mann, David L. 1976, Adjunct Instructor of Real Estate B.B.A., Southern Methodist University

McClendon, Bruce W. 1980, Adjunct Instructor of Real Estate B.A., University of Missouri; M.A., University of Oklahoma

McLaughlin, Marvin L. 1946, Professor of Elementary Education

B.S., Sam Houston State University; M.Ed., University of Texas; Ed.D., University of Houston

Mitterlehner, Walter D. 1978, Adjunct Instructor of Occupational Safety and Health

Mittra, 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

Montalbano, Gail 1980, Clinical Instructor of Respiratory Technology

Certificate in Respiratory Technology, Lamar University; Certified Respiratory Therapy Techni-

Morgan, Kim Renee 1981, Research Assistant, Department of Communication B.S., Lamar University

Nunez, Ronald J. 1979, Adjunct Instructor of Welding A.A.S., Lamar University

Partin, Charles A. 1964, Professor of Economics B.S., Stephen F. Austin State University; M.A., Ph.D., University of Texas

Peters, William C. 1967, Adjunct Instructor of Business Data Processing B.A., University of Louisville

Phair, George Allan 1980, Adjunct Instructor of Criminal Justice

Pierce, Dorothy 1978, Adjunct Instructor of Real Estate A.A.S., Lamar University

Reed, Charles C. 1978, Adjunct Instructor of Accounting B.S., Indiana University; Certified Public Accountant

Reger, Gary N. 1980, Adjunct Instructor of Business Law B.B.A., Texas A&M University; J.D., University of Texas School of Law

Reynard, Betty Jane 1979, Clinical Instructor of Dental Hygiene A.A.S., B.S., Lamar University; Registered Dental Hygienist

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

Schroder, John P. 1979, Adjunct Instructor of Drafting Technology B.S., University of Southwestern Louisiana

Schroeter, William E. 1977, Adjunct Instructor of Real Estate

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

Simmons, James M. 1970, Assistant Professor of Music

B.S., Memphis State University; M.M., University of Houston; Ed.D. McNeese State University

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

Stephenson, R. Regan 1980, Adjunct Instructor of Real Estate B.B.A., Lamar University

Stevens, Eleanor M. 1977, Adjunct Instructor of Office Administration B.B.A., University of Texas; M.B.A., University of Houston

Stevens, Margaret S. 1980, Adjunct Instructor of Geology

Stidham, Mary Lea 1981, Adjunct Instructor of Related Arts

Strafau, Robert David 1981, Adjunct Instructor of Related Arts

Switzer, Fred S., III 1980, Adjunct Instructor of Business Data Processing B.A., University of Texas

Terrell, Wade E 1980, Adjunct Instructor of Diesel Mechanics A.A.S., Lamar University

Thibodeaux, Linda 1981, Adjunct Instructor of Home Economics B.S., M.S., Lamar University

Van Meter, Barbara L. 1981, Adjunct Instructor of Home Economics B.S., M.Ed., Lamar University

Venza, Anthony J., Jr. 1978, Adjunct Instructor of Mid-Management B.A., B.B.A., M.B.A., Lamar University

Victor, Ann 1980, Adjunct Instructor of Music B.M., M.M., Kent State 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

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

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Webb, Clem T. 1976, Adjunct Instructor of Art B.S., Lamar University

Webster, Wilbur O. 1972, Adjunct Instructor of Mid-Management B.S., University of Southwestern Louisiana

Wheeler, Gary M. 1981, Adjunct Instructor of Related Arts

White, Dennis P. 1981, Adjunct Instructor of Criminal Justice

White, James T. 1977, Adjunct Instructor of Drafting Technology A.A.S., Lamar University

White, Vicki R. 1981, Adjunct Instructor of Home Economics B.S., M.Ed., Texas Christian University

Whitmarsh, Robert H. 1979, Adjunct Instructor of Chemistry

Wiggins, Sharon A. 1980, Adjunct Instructor of Occupational Safety and Health

Wilkerson, Joan S. 1969, Assistant Professor of English

A.B., Duke University; M.A., George Peabody College for Teachers

Williams, Harry L. 1972, Vocational Counselor of Related Arts

Williams, Roland 1980, Adjunct Professor of Dental Hygiene

B.S., Lamar University; D.D.S., University of Texas Dental Branch, Houston

Wilson, James C. 1980, Adjunct Instructor of Plant Maintenance and Operations Winney, Betty 1967, Assistant Professor of Speech and Hearing Therapy

B.S., M.S., Lamar University, Certificate in Audiology

Woods, Anita J. 1971, Adjunct Instructor of Related Arts B.A., Sam Houston State University

## Lamar University at Orange

#### Faculty 1983-84

The following list reflects the status of the Lamar University at Orange faculty as of November, 1982. 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.

Aims, B. Doug 1981, Assistant Professor and Director, Academic Programs
B.S., M.S., Washington University M.Ed., Ed.D., Memphis State University

Arnow, Judith Z. 1972, Assistant Professor of Mathematics

B.A., University of North Dakota; M.S., Lamar University; M.S., Rice University

Brown, M. Ray 1978, Assistant Professor of Sociology B.A., M.A., Texas Tech University; Ph.D., Brown University

Campbell, Jesse W. Jr. 1976, Adjunct Instructor of Physical Education 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

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

Gardner, John C. 1980, Assistant Professor of Accounting and History

B.A., Stetson University; M.A., Florida State University M.L.S., Louisiana State University; M.B.A., North Texas State University; Ph.D., Louisiana State 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

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.S., Lamar University; M.A., Sam Houston State University; Ph.D., North Texas State University

Ronning, James C. 1970, Assistant Professor of Psychology

B.S., Lamar University; M.Ed., Abilene Christian University; E.Dd., McNeese State University

Talmadge, Geraldine 1976, Adjunct 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

Thiele, Harold 1977, Instructor I of Drafting Technology

B.S., University of Southwestern Louisiana; M.Ed., Louisiana State 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 I of Industrial Electricity and Electronics Technology

Welch, Bonnie F. 1978, Instructor I of Office Occupations B.B.A., Lamar University

Wielgus, Cathy J. 1980, Clinical Instructor of Nursing B.S.N., West Virginia University; Registered Nurse

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, 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

Arabic, Robert 1981, Adjunct Instructor of Welding

Blagburn, Rickey R. 1981, Teaching Assistant

Branson, Wilma C. 1978, Adjunct Instructor of Technical Mathematics B.S., Lamar University

Collier, Helen L. 1980, Adjunct Instructor of Business Communications M.Ed., University of Illinois

Daniel, Mary Ann 1979, Adjunct Instructor of Sociology B.S., University of Houston

Dupree, Carol S. 1981, Adjunct Instructor of Office Occupations B.S., M.S., Emporia State University

Freeman, Brenda L. 1981, Instructor of Office Occupations
B.B.A., Georgia College; J.D., Walter F. George School of Law-Mercer University

Head, Sandra J. 1981, Adjunct Instructor of Real Estate

Inman, Anna Carol 1981, Adjunct Instructor of Marketing B.B.A., Lamar University

Kirkendall, Steve 1981, Adjunct Instructor of English B.A., M.Ed., Lamar University

McLendon, Connie J. 1981, Adjunct Instructor of English
B.S., Texas A&I University, M.A., North Texas State University

Milton, Summer Gale 1979, Adjunct Instructor of Office Occupations
J.D., South Texas College of Law

Orlowsky, Edward L. 1981, Instructor of Drafting

Pate, Martha Joel Brown 1979, Adjunct Instructor of Mathematics B.S., M.S., Lamar University

Perkins, Lana 1981, Adjunct Instructor of Drafting Technology

Reeves, Claudie H., II 1981, Adjunct Instructor of Industrial Supervision

B.S., University of the State of New York; B.S., University of Maryland; M.A., University of Northern Colorado

Rives, Barbara Sunderland 1980, Adjunct Instructor of Technical Mathematics B.A., David Lipscomb College

Robinson, Jeanette H. 1981, Instructor of English
B.A., University of Texas; M.A., Lamar University

Ryland, Nelda S. 1981, Instructor of Technical English B.S., Lamar University

Shipman, Truth L. 1975, Adjunct Instructor of Technical Mathematics B.A., M.Ed., Lamar University

Stevens, Margaret S. 1972, Adjunct Instructor of Geology

B.A., Central Michigan University; M.S., University of Michigan

Thompson, Becky McGlothen 1981, Adjunct Instructor of Office Occupations
B.B.A., Lamar University

Warner, Jean 1980, Adjunct Instructor of Psychology M.A., University of Iowa

Wimberley, Ruby J. 1976, Adjunct Instructor of Real Estate

Windham, Ben 1981, Adjunct Instructor of Electronics
A.A.S., Lamar University

Young, Paul Jr. 1981, Adjunct Instructor of Speech

### Lamar University at Port Arthur

#### Faculty 1983-84

The following list reflects the status of the Lamar University at Port Arthur faculty as of November, 1982. 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

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

Burris, Shirley H. 1978, Instructor I of Office Occupations B.A., M.B.Ed., Stephen F. Austin State University

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

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

Hachbald, Shirley Sue 1980, Assistant Professor of English
A.A., Blinn College; B.A., M.A., University of Houston

Hutchins, Janis A. 1980, Instructor I of Office Occupations B.B.A., M.B.A., Lamar University

McKay, Robert B. 1980, Instructor I of Automotive Mechanics

Meyer, Kenneth E. 1981, Instructor I of Automotive Mechanics B.S., Mankato State University Modica, Carolyn J. 1981, Instructor I of Cosmetology Registered Cosmetologist

Moore, Inell 1975, Instructor I of Office Occupations B.A., M.Ed., Texas Southern University

Parker, Beverly 1975, Instructor of Government

B.A., Southwestern University; M.A., Lamar University

Peeler, Robert W. 1979, Instructor I of Electronics Technology B.S., Lamar University

Pinder, Volney 1981, Adjunct Instructor of Technical Mathematics B.S., Lamar University

Roberts, Edwin A. 1981, Instructor I of Welding

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 I of Electronics Technology, and Head, Department of Electronics Technology

Whigham, Virginia 1975, Instructor I of Office Occupations

Young, Velma 1977, Instructor I of Cosmetology and Program Coordinator of Cosmetology Registered Cosmetologist

#### **Part-Time Faculty**

Baxter, Benny L. 1977, Instructor of Automotive Mechanics

Dubose, John C. 1980, Instructor of Accounting

B.B.A., Lamar University; M.B.A., McNeese State University; Certified Public Accountant

Dumas, Perle W. 1981, Instructor of English

B.A., Lamar University

Duplantis, Dan 1978, Instructor of Real Estate
A.A.S., Lamar University

Table 10 to 10 to

Forse, Leroy 1977, Instructor of Welding

Gordon, Robert 1981, Instructor of Welding

Johnson, Paul W. 1978, Instructor of Drafting B.E.D., Texas A & M University

King, Maydell 1979, Instructor of Office Occupations B.B.A., Lamar University

Murray, Jack 1977, Instructor of Real Estate

A.A.S., B.B.A., Lamar University

Naughton, Alan J. 1980, Adjunct Instructor of Economics B.A., Tarkio College; M.A., Southern Illinois University

Nordstrom, Harold Thomas 1981, Instructor of Real Estate Certified Residential Brokerage Manager

Pate, Martha 1981, Instructor of Mathematics

B.S., M.S., Lamar University 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

Ruff, Patricia 1981, Instructor of English

B.S., University of Southern California; M.A., Lamar University

Schroeter, William E. 1977, Instructor of Real Estate

Stevens, Margaret 1979, Instructor of Geology

B.S., Central Michigan University; M.S., University of Michigan

Suiter, Coleta 1980, Instructor of Home Economics

B.S., M.S., Lamar University

Taufique, Altah H. 1981, Instructor of Economics

B.A., University of Karochie, M.A., Central Missouri State University

Teague, Ronald 1979, Instructor of Automotive Mechanics

B.S. North Texas State University

Trahan, Lee Ray 1975, Instructor of Welding

Tronstad, Glen 1981, Instructor of Electronics

A.A.S., Lamar University

Williams, Patricia D. 1977, Instructor of Office Occupations

Wodall, Terry Glenn 1981, Instructor of Music B.S., Lamar University

#### **Principal Administrative Staff**

Applegate, Roberta, Program Director, Setzer Student Center

Baldwin, Geraldine, Director of Development

Beverley, George T., Director of KVLU-FM Radio

Bevil, Lamar C., M.D., University Physician

Brickhouse, Earl, Director of Public Relations

Burney, Dianne D., Director of Continuing Education

Carpenter, Eugene W., Chief of University Police

Castette, Jesse, Assistant Director of Housing

Collins, Barry, Director of Intramurals and Recreational Sports

Cozine, James J., Assistant to the Dean, Division of Public Service

Dennis, Daniel P., Auditor

Fiorenza, Wanda, Executive Director, Alumni Association

Fondren, Darrell L., Director of Veterans' Affairs

Forristall, Dorothy Z., Director of Learning Skills Program

Foster, Pat, Athletic Director, Head Basketball Coach

Francis, Clifton N., Director of Registration and Records

Galloway, Willie M., Administrative Assistant for University Reception Center

Goode, D. Rex, Director of Campus Planning

Gwin, Howell H., Director of Graduate Studies

Haggard, Alvin L., Budget Director

Hayes, Stuart W., Coordinator, Photographic Services

Hurlbut, Bryan, Director of Accounting

Iones, Dolores, R.N. Nurse Practioner

Juhan, Gerry, Career Counselor for Special Services

King, Kathleen, Assistant to the Dean of Student Development

Lee, Robert, Director of Special Services

Ling, Billy V., Purchasing Agent

Lomonte, Theresa, Director of Health Center

Martin, Jack T., Director of Placement

Moye, Gene E., Director of Student Aid Accounting

Neumann, Richard L., Director of Admissions

Nylin, William, Director of Systems, Procedures and Institutional Research and Director of Personnel

Pearson, Edwin A., Director of Print Shop

Perkins, Howard, Director of Student Publications

Pike, Vernon, Director of Payroll

Placette, Jacquelynn F., Director of Setzer Center and Panhellenic Advisor

Plotts, Peter B., Manager of University Bookstore

Ransom, Dana M., Director of School Relations

Rice, Ray E., Director of Operations

Rogas, Dan W., Assistant Athletic Director, Athletic Business Manager

Rush, James C., Director of Student Aid

Schmidt, T. Patrick, Director for Special Services

Scoggins, Jill, Assistant Director of Student Publications

Shaw, Ann, Dean of Student Development

Smith, Joe Lee, Director of Public Information

Sparks, Kenneth L., Director, Physical Plant

Stegeman, Annie, Coordinator of Student Organization Services and Activities

Stracener, Bruce E., Director of Housing and Food Service

Thomas, Karen, Building Manager, Setzer Student Center

Turco, Charles P., Director of Research and Programs

Wesley, M. Ted, Director of Extramural Education

Wood, Rush B., Sports Information Director

Woodrick, Charles P., Psychometrist

Worsham, William, Director of Student Selection

Wray, Alice, Director, Reservations and Operations Setzer Student Center

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Athletics (Women's) Belle M. Holm, Director, P.O. Box 10039
Books/Supplies
Continuing Education/
Community Services W. Richard Hargrove, Dean, P.O. Box 10008
Counseling/Testing P.O. Box 10040
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College of Business
College of Education
College of Engineering Fred M. Young, Dean, P.O. Box 10057
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College of Health Sciences &
Behavioral Sciences
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