

**1969**

**SUMMER SESSION**

**BULLETIN**



**Lamar State College of Technology**

**Beaumont, Texas**

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**BULLETIN**  
**of**  
**LAMAR STATE COLLEGE OF TECHNOLOGY**

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VOL. XIX

MAY, 1969

NO. 10

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Second class mail privileges authorized at Beaumont, Texas. Published by Lamar State College of Technology semi-monthly in February and May; monthly except in June, July, and August.

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Member:

Association of Texas Colleges and Universities  
American Council on Education  
National Commission on Accreditation  
Southern Association of Colleges and Schools  
Association of American Colleges  
Texas Association of Music Schools  
American Society for Engineering Education  
American Association of University Women  
American Association of Colleges for Teacher Education  
Approved by the Texas Education Agency  
Approved for the Training of Veterans under all classifications  
Departments of Chemical Engineering, Civil Engineering, Electrical  
Engineering, Industrial Engineering, and Mechanical Engineering  
accredited by Engineering Council  
for Professional Development  
Accredited by American Chemical Society

Announcement for Summer Sessions 1969

First Term--June 10, 1969, through July 18, 1969

Second Term--July 22, 1969, through August 29, 1969

Lamar State College of Technology  
Beaumont, Texas

# LAMAR STATE COLLEGE OF TECHNOLOGY

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Room 103, Business Building  
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Room 1-A Educational Services Building  
TED SKINNER, B. S., M. A., Ph. D., Dean, School of Fine and Applied Arts . . . . .  
Room 206, Music-Speech Building  
LLOYD B. CHERRY, B. A., B. S., M. A., Dean, School of Engineering . . . . .  
Room 101, E1 Engineering Building  
M. L. McLAUGHLIN, B. S., M. Ed., Ed. D., Dean, Graduate School . . . . .  
Administration Building  
E. E. MILLER, B. S., M. S., Director, Lamar School of Vocations . . . . .  
Room 105, Vocations Building

# LAMAR STATE COLLEGE OF TECHNOLOGY

## SUMMER SESSION

### First Term

<u>June</u>	8	Sunday		Limited operations of dormitories.
	9	Monday	7 a. m.	Dining Hall opens.
			8 a. m.	Registration
			6 p. m.	Registration-evening classes.
	10	Tuesday	7 a. m.	Classes begin
				Late registration (penalty fee charged).
				Payment of fees is a part of registration.
	11	Wednesday	7 p. m.	Last date for registration or for adding courses.
	13	Friday		Fourth Class Day
	20	Friday	4 p. m.	Last date for approval for August graduation.
	30	Monday	7 p. m.	Last date for dropping courses or withdrawing without penalty.
<u>July</u>	14	Monday	7 p. m.	Last date for dropping courses or withdrawing.
	17-18	Thurs-Fri.		Final exams-first term.
	19	Saturday	12 noon	Last date for reporting term grades to Registrar's office.

### Second Term

<u>July</u>	21	Monday	8 a. m.	Registration
			6 p. m.	Registration-evening classes.
	22	Tuesday	7 a. m.	Classes begin.
				Late registration (penalty fee charged).
	23	Wednesday	7 p. m.	Last date for registration or for adding courses.
	25	Friday		Fourth Class Day.
<u>Aug.</u>	11	Monday	7 p. m.	Last date for dropping courses or withdrawing without penalty.
	25	Monday	7 p. m.	Last date for dropping courses or withdrawing.
	28-29	Thurs-Fri.		Final exams-second term.
	29	Friday	4 p. m.	Last date for reporting term grades to Registrar's office.
			6 p. m.	Dining Hall closes.
			10 p. m.	Dormitories close
	30	Saturday	9 a. m.	Commencement exercises.

## Directory for Correspondence

(All campus telephones may be reached through the central switchboard, Area Code 713, 838-6671. All correspondence should be directed to Lamar Tech Station, Beaumont, Texas, 77705.)

To obtain prompt attention, address inquiries to the following persons or agencies:

Academic Program.....	Frank A. Thomas, Jr., Vice-President of Academic Affairs
Academic Records and Transcripts.....	Celeste Kitchen, Registrar
Admissions and Testing.....	Norris H. Kelton, Dean of Admissions
Athletics.....	J. B. Higgins, Athletic Director
Books and Supplies.....	O. J. Wilkerson, Manager, Bookstore
Business Affairs.....	H. C. Galloway, Vice-President of Finance
Employment for Students.....	Financial Aids Office
Evening School.....	Jack Hill, Director
Financial Aids and Awards.....	Jess R. Davis, Director
Graduate School.....	M. L. McLaughlin, Dean
School of Business.....	J. D. Landes, Dean
School of Education.....	W. Richard Hargrove, Dean
School of Engineering.....	Lloyd B. Cherry, Dean
Cooperative Engineering.....	George B. Tims, Jr., Director
School of Fine and Applied Arts.....	Ted Skinner, Dean
School of Liberals Arts.....	Preston B. Williams, Dean
School of Sciences.....	Edwin S. Hayes, Dean
School of Vocations.....	E. E. Miller, Director
Housing, Dormitory Reservations..	J. Paul Pederson, Student Housing Office
Library.....	Andrew J. Johnson, Librarian
Publications and Information.....	Richard E. Oliver, Director
Research Center.....	Robert A. McAllister, Director
Student Affairs, General.....	David L. Bost, Vice-President of Student Affairs
Student Activities.....	Gene Peters, Director
Student Health.....	Mrs. Ola Saunders, Health Center
Student Loans.....	Brian Sumrall, Loan Officer
Traffic, Parking, and Security.....	Gene Carpenter, Security Officer
Tuition, Fees, Expenses.....	Finance Office
Veterans' Affairs.....	Joe B. Thrash, Placement Office

# ORGANIZATION OF THE COLLEGE

by

## Schools and Departments

### SCHOOL OF LIBERAL ARTS

(Bible)  
English  
Government  
History  
Modern Languages  
Psychology  
Sociology

### SCHOOL OF SCIENCES

Biology  
Chemistry  
Geology  
Physics

### SCHOOL OF FINE AND APPLIED ARTS

Commercial Art  
Music  
Speech

### SCHOOL OF ENGINEERING

Chemical  
Civil  
Electrical  
Industrial  
Mechanical  
Mathematics

### SCHOOL OF EDUCATION

Education  
Home Economics  
Physical and Health Education

### SCHOOL OF BUSINESS

Accounting  
Business Administration  
Economics  
Secretarial Science

### GRADUATE SCHOOL

Business  
Chemistry  
Education  
Engineering  
English  
Government  
History  
Mathematics  
Physical and Health Education  
Speech

Note: Lamar also operates Lamar School of Vocations.  
Its courses are described in a separate bulletin.

## GENERAL INFORMATION

### Location

Lamar State College of Technology is a state-supported institution located in the center of industrial Southeast Texas at Beaumont. Principal industries in the area are oil refining, shipping, shipbuilding, rubber manufacturing, and chemical production. Surrounding the urban communities are ranches and rice farms.

The campus faces the Beaumont-Port Arthur Highway in southeastern Beaumont. With a population of approximately 130,000, Beaumont has modern schools, churches, and shopping districts to serve the thriving industrial community.

In the metropolitan Beaumont area are the cities of Port Arthur, Orange, Vidor, Port Neches, Nederland and Groves, all within 25 miles and forming the heart of the Gulf Coast area with an estimated population of more than 350,000.

### History

South Park Junior College was established in 1923. The college was organized and controlled by the South Park Independent School District, and classes were conducted in the South Park High School Building. Enrollment increased from about 125 in 1923 to 300 in 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 were instituted. By 1939, enrollment was approximately 640.

In 1940, Lamar Union Junior College District was created, and Lamar College was separated from the South Park Independent School District. Bonds were voted 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 that time the curriculum has been expanded and liberalized to include many areas of study, and many additional facilities have been provided. Enrollment has increased until there are now over 10,000 students.

The College offered graduate work in specified fields beginning in the academic year of 1960-61.

### Accreditation

Lamar is accredited by the Association of Texas Colleges and Universities and the Southern Association of Colleges and Schools. It is also approved by the Texas Education Agency.

The departments of Chemical Engineering, Civil Engineering, Electrical Engineering, Industrial Engineering, and Mechanical Engineering are accredited by the Engineers' Council for Professional Development.

The Department of Chemistry is accredited by the American Chemical Society.



## **Government**

The government of the College is vested in a board of nine regents appointed by the Governor and approved by the Senate for terms of six years. The direction of academic affairs is delegated by the Board of Regents to the President, administrative officers, and faculty.

The general policies of the Graduate School are determined and administered by the Graduate Council.

## **Degree Offerings**

BACHELOR OF ARTS in Biology, Chemistry, English, French, Economics, Geology, Government, History, Mathematics, Psychology, Sociology, Spanish and Speech.

BACHELOR OF SCIENCE in Biology, Chemistry, Commercial Art, Education, Environmental Science, Geology, Government, Home Economics, Mathematics, Music, Medical Technology, Physical and Health Education, Physics, Psychology, Speech, and the following Engineering Fields: Chemical, Civil, Electrical, Industrial and Mechanical.

BACHELOR OF BUSINESS ADMINISTRATION in Accounting, Economics, General Business, Management, Marketing and Secretarial Science.

MASTER OF ARTS in English, History, and Government.

MASTER OF BUSINESS ADMINISTRATION

MASTER OF EDUCATION in Elementary Education, Secondary Education, Special Education, and Counseling and Guidance.

MASTER OF ENGINEERING SCIENCE in Engineering.

MASTER OF ENGINEERING

MASTER OF SCIENCE in Chemistry, Mathematics, Speech (Audiology/pathology), and Health and Physical Education.

## **Evening Classes**

For administrative purposes, classes offered after 6:00 p. m. are referred to as evening classes. With few exceptions the same faculty members teach in both day and evening classes, and all educational facilities are the same. A person employed during the day hours may attend classes in the evening and work toward a degree or expand his knowledge in a special field of interest.

Course offerings in the evening are such that by judicious choice of classes continual progress toward an objective may be maintained. It is advisable to follow the program of study outlined in the catalog, but in every case such program should be approved by the department head concerned with the training objective of the student.

## GENERAL REGULATIONS

The general regulations of the College apply to the Summer Session. Students should read all regulations regarding academic matters listed in the current General Catalog.

Among the more timely regulations with the Summer Session student in mind are the following:

### Telephone Service

Public telephone pay stations have been installed in the Administration Annex, in the Liberal Arts, Engineering, Home Economics, Library, Union, and Vocation Buildings. Students are expected to use these telephones for personal calls. Office telephones are for the use of faculty and administrative personnel only. Incoming telephone calls for students are transmitted to the students only in cases of emergency.

### Student Debts

The College 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 Dean of Men (Women) will take appropriate action depending on age or marital status of the student concerned.

Penalty for failure to clear up these obligations may be: a) No re-admission; b) Withholding of grades and transcript; c) Withholding of degree.

### Parking Regulations

At registration time 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 placed in a specific place on the back window of the car.

### Penalty for False Statements

A student who makes a false statement to any college official or on an official form submitted to the College is subject to immediate dismissal.

### Official Summons

An official summons from any administrative office takes precedence over all other college activities of the student and should be answered promptly on the day and hour designated. Failure to heed this official summons may subject the student to serious disciplinary action.

## ACADEMIC INFORMATION

### Advantages of Summer Session

The summer session is an important part of the total education program offered by the College. Classes are taught by regular faculty members and all facilities normally used during the fall and spring semesters are available for summer school.

Academic courses include the same material as those offered during the regular semester.

There are many advantages to attending summer school classes for the high school graduate and for students previously enrolled in college.

#### 1. For Entering Freshman

High school graduates concerned over the difficult transition from high school to college study can use summer school credits to lighten their academic load during their freshman year and eliminate some of the problems concerned with this transition period.

During the summer session, students normally enroll for two academic courses per session. This allows greater concentration on the subject matter areas which are most difficult for the entering student.

Students who have fulfilled the general admission requirements of the college may also use either summer session to make up any unit deficiencies required in certain degree programs. This would enable the student to enter normal curriculum pattern the following fall semester.

Others can make good use of summer school courses to enrich their programs through work which they otherwise might not be able to take.

Some students may wish to accelerate their graduation date through summer work. It is quite possible to shorten the academic period required for graduation by one or more semesters through repeated summer school attendance.

#### 2. For Students Who Work

Students who plan to carry reduced academic loads during the regular sessions so that they may earn part of their expenses through employment can use the summer session to increase the total number of hours taken over a calendar year to what is normally expected of a full-time student.

#### 3. Students Attending Other Colleges

Those who are regularly enrolled in other colleges but who reside in the area can use courses offered by Lamar to enrich their academic programs or to meet requirements at other institutions.

#### 4. Students in Academic Difficulty

For those students who have failed to pass certain courses, who are on probation, or who have been suspended from Lamar State College for one term,

the summer session presents an opportunity to repair their academic record. Students that are suspended for one term from Lamar State College may attend the summer session without penalty. This does not apply to students who have been suspended from other colleges.

### **Admissions**

Graduate School requirements are listed in the Graduate Bulletin.

Qualifications for vocational training are outlined in the Lamar School of Vocations Bulletin.

Requirements for admission to the undergraduate program of the College are outlined briefly in the following sections and are given in more detail in the regular catalog. Students seeking admission should study the requirements carefully. If it appears that the qualifications can be met, the procedure for making application for admission outlined on the inside of the back cover of this catalog should be followed.

Requests for application forms and additional information should be directed to the Dean of Admissions, Lamar State College of Technology, Lamar Tech Station, Box 10009, Beaumont, Texas, 77705.

### **Admission Requirements**

An applicant who has never attended college is required to be of good moral standing; to have graduated from an accredited high school with the units of credit specified in the regular catalog; and unless graduation was prior to 1961, to submit Scholastic Aptitude Test (SAT) scores which meet the minimum requirement.

Residents of Texas applying for admission are required to have a minimum combined (verbal and mathematics) score of 700 on the test. Non-residents of Texas must rank in the upper three-fourths of their graduating class and must have a minimum score of 900 on the SAT to conform with a new requirement initiated in May, 1968.

If a Texas resident falls below the required 700 SAT total, he may be admitted on a provisional basis to the Summer Session. Students so admitted are required to complete 12 semester hours (selected from English, history, mathematics, or science, and must include English 131) and to earn 12 grade points during the Summer Session to be eligible for readmission in the subsequent Fall semester.

For these provisional students, no course may be failed or repeated.

College transfers may not be deficient in excess of 15 grade points (3 point system) and must be eligible to re-enter all colleges previously attended.

Scholastic Aptitude Test Scores must be submitted if less than 18 hours of transferable work has been completed. A minimum combined score of 700 is required of residents of the State of Texas. Non-resident students must total 900 on the SAT. College transfer students are not eligible to participate in the provisional summer program.

Former students at the college who have subsequently enrolled at another institution are considered to be transfer students and are required to meet the above requirements in order to be re-admitted.

### **Health Data Requirement**

All students entering day classes for the first time at Lamar State College must file a Health Data Form with the Dean of Admissions. This regulation does not apply to transient students.

### **Social Security Number Required**

The application for admission form calls for the applicant's Social Security Number. The number will be used as a permanent student number in machine processing of student records. Non-holders of Social Security cards should secure one so that the proper information can be entered on the application form.

### **Temporary Admission**

Students entering Lamar in the summer often find that the interval between the completion of high school work and the beginning of a college semester is too short for the transcript to reach the College. In such cases, temporary admission is granted which permits the student to register pending the receipt of the transcript. Students on temporary admission who are subsequently found to be ineligible for admission will be withdrawn from college.

### **Entrance Test Requirement**

The Scholastic Aptitude Test (SAT) of the College Entrance Examination Board is required of applicants entering from high school unless graduation was prior to 1960. Test scores are one of several factors considered in determining the candidate's qualifications for admission.

The SAT may be taken more than one time but if repeated, the test must be taken on one of the regular test dates when the SAT is administered nationally.

The Scholastic Aptitude Test is administered by CEEB at test centers throughout the United States and in many foreign countries in November, December, January, March, May, and July. Lamar State College is one of the testing centers. The location of all test centers, test dates, fees, application forms, and general information about the test is given in the CEEB booklet, Bulletin of Information - Scholastic Aptitude Test. The bulletin may be obtained without charge from high school counselors, or by writing directly to the College Entrance Examination Board, Box 1025, Berkeley, California, 94701. A copy of the booklet should be secured EARLY so that a convenient test date can be selected. Application to take the test and test fees are sent to CEEB, not to the College.

Failure to take entrance tests in advance may seriously delay admission and registration.

## **Admission of Transient Students For Summer Work Only**

Students attending another college who wish to enroll for the summer session only at Lamar may be admitted as transient students. A student accepted under this classification is required to submit the regular Application for Admission Form only. Transient students who later apply for regular admission must meet all entrance requirements.

Applicants not in attendance at another college during the spring semester immediately prior to the summer session will not be considered as transients and must apply as regular transfers.

## **Transfer of Credit**

A student transferring from an accredited institution will be allowed to transfer as many hours as he has grade points (3-2-1-0 basis). Work accepted from an institution which is not accredited by its association is subject to validation by satisfactory work at Lamar State College.

Students transferring from a junior college are limited to the transfer of 66 semester hours or to the number of hours required by this college during the freshman and sophomore years in the curriculum under which the student enrolls. Once this maximum has been earned at any college (junior or senior), no additional hours earned at a junior college will transfer.

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

## **Registration**

Students currently enrolled at Lamar State College for the Spring 1969 semester must make application for both Summer Sessions I and II before 5 p. m., May 2, to qualify for the regular alphabetical registration system.

Those students who do not apply for Summer Session admission by the deadline will register as late applicants.

All other Summer Session students --- new students, former students, transfers from other colleges --- must make application by 5 p. m., May 23, for the first summer term and by 5 p. m., July 11, for the second session to be eligible for the alphabetical registration program.

Students who fail to apply for admission by these deadlines will register as late applicants.

Registration for the first term will be held Monday, June 9, beginning at 8 a. m. Registration for evening classes will be the same day, starting at 6 p. m. Classes begin on Tuesday, June 10.

The second Summer Session registration will begin Monday, July 21, at 8 a. m. with registration for evening classes scheduled at 6 p. m. Classes will begin Tuesday, July 22.

## **Student Load**

No student will be permitted to register for more than eight semester hours in a given summer term or for more than fourteen semester hours for the complete summer session. Exceptions to this regulation may be made for seniors scheduled to be graduated at the end of current summer session. Such seniors may enroll for a maximum of fifteen semester hours during the complete summer session preceding their graduation.

## **Absences**

Regular and punctual attendance in classes and laboratories is required of all students. An absence is normally classified as approved or unapproved by the instructor of the class or laboratory involved. Student protest regarding classification of an absence by an instructor will be referred to the department head in charge of the course being offered. At the discretion of the instructor, a student having an approved absence may make up examinations, written assignments, reports, etc., without penalty. This privilege is not extended to those having unapproved absences.

Students accumulating excessive unapproved absences (guideline—those who are absent for more than the number of class meetings scheduled for a given course per week) will be reported by the instructor to the Office of Student Affairs for disciplinary action. The Dean of Women or the Dean of Men will summons such students for conferences, will notify their parents of their non-class attendance, and may at their discretion place the student on disciplinary probation. If the student continues to accumulate unexcused absences, he may be dropped from the class in question or be withdrawn from school through the office of the Dean of Women or the Dean of Men.

Parents or guardians who notify the College that a given student is ill or has been confined to a hospital should be referred to the office of the Vice-President of Student Affairs. His office will notify the instructors involved of the student's illness or hospitalization.

College-sponsored activities which require absences from class must be approved by the Vice-President of Academic Affairs. After completion of an activity, the sponsor, coach, instructor, or supervisor submits to the Vice-President of Academic Affairs a list of participating students; and an absentee list published by his office. Such absences then become approved. However, it is the responsibility of each student whose name appears on a given list to notify his instructors of such approved absences.

## **Cancelling Courses**

The College reserves the right to cancel any course enrolling an insufficient number of students (usually less than 10).

## **Commencement**

A student who completes all the requirements for a degree during either of the summer terms will have the degree conferred during the August commencement scheduled for Saturday, August 30 at 9:00 a. m.

## FACILITIES

Located on a campus of approximately 200 acres and valued in excess of \$30,000,000, the Lamar plant includes many new and functional buildings of modern design. These structures include:

Administration Building, Administration Annex, Art Building, Biology Building, Bookstore, Business Building, two Chemistry Buildings, Dining Halls A and B, Education Building, Educational Services Center, three Engineering Buildings, Geology Building, Health Center, Home Economics Building, Theatre/Gallery, Liberal Arts Building, Library, McDonald Gymnasium, Music-Speech Building, Physics Building, Post Office Building, Science Lecture Auditorium, Student Center, five School of Vocations Buildings, and Women's Health and Physical Education Building.

Nine of these buildings have been constructed within the past two years. Currently in progress are expansion programs for the Home Economics and Men's Health and Physical Education Building.

Also, more than \$2,000,000 is being spent for the expansion, renovation and furnishing of the Student Center.

On-campus dormitories include Brooks Hall, Gentry Hall and Gray Hall for women; Campbell Hall, Combs Hall, Morris Hall, Plummer Hall, and Shivers Hall for men. Also, three apartment buildings for upper class students and married couples are included in the residence hall system.

The President, Assistant Dean of Men, and Director of the Physical Plant have homes on the campus.

A football stadium seating 17,150 and arranged to eventually accommodate 38,500; an athletic field house, athletic practice fields, Olympic swimming pool, 14 tennis courts, track and field stadium, and a four-building maintenance complex are also located on campus.

### Research Center

The Research Center was formally organized in 1956. It is administered by a director who serves as chairman of the faculty research committee. Many National Science Foundation grants as well as private foundation grants have been received through this research organization.

The East Texas area is one of the most heavily industrialized sites of the world, and many industrial research problems are referred by industries of the area to the Lamar Research Center. Faculty members and advanced students often cooperate in seeking the solutions to these industrial problems.

### Computer Center

The College operates a computer laboratory-center as a division of the Research Center. This installation houses new computing facilities, digital and analog, valued in excess of \$750,000.

### Religious Centers

Several denominations provide a full-time ministry to the campus and toward that end have established student centers adjacent to the campus.

In addition to credit Bible courses, offered in the long term, the centers offer opportunities for worship, non-credit study and counseling in order to aid the student in developing a meaningful context for his college years.



## HOUSING

The dormitory housing program is part of the total educational plan of the college. The Board of Regents has committed the college to maintaining full occupancy of all rooms in the dormitories. For these reasons, students are required to live in a college dormitory and to take their meals in the college dining hall. Approval of housing is an official step in the student's registration process.

Permission to live off-campus can be granted only to:

- (1) Students who live with parents or relatives.
- (2) Married students who live with their wives or husbands.
- (3) Students whose health conditions demand special services.

If college housing is not available, upperclassmen will be permitted to live in approved off-campus housing until such time as they can be accommodated in a dormitory. The Assistant in Student Affairs will review all requests for permission to live off campus. The college reserves the right to require campus residence of any student. A student who gives a false statement concerning his place of residence will be subject to suspension.

The semester room and board rates are \$60.00 and \$83.00, respectively. The board summary is subject to a 4 per cent state sales tax.

## RESERVATIONS

To reserve a room in the dormitories, direct a request to the Assistant in Student Affairs, Lamar State College of Technology, Lamar Tech Station, Box 10041, Beaumont, Texas 77705. A check for \$20 must accompany the reservation request. Room reservations may be cancelled with full refund until three weeks prior to the first day of classes. No refunds will be made on cancellations received after this date. Dormitory residents will be refunded deposits, less any breakage charges, at the end of the semester. The \$20 deposit will not be refunded if the student moves from the dormitory at any time other than at the end of the semester—or any other reason; this includes the student who is dropped from school for disciplinary reasons.

All unclaimed rooms will be declared vacant and the deposit forfeited at 6:00 p. m. on the last day of registration unless the student gives the Student Affairs Office written instructions to hold the room for a longer period.

## **Instructional Buildings**

Classroom buildings are of modern design and conveniently located a short distance from the dormitories and the dining hall. Classes other than those necessitating special facilities, laboratory facilities, etc., are conducted in air-conditioned classroom buildings.

The student service buildings on the campus, including the Bookstore, Library, Student Union, Dining Halls, Health Center, etc., are also air-conditioned.

## **Library**

The Library is conveniently located among the instructional buildings on the campus. Students will find that it has seating room for several hundred, a reference room, a film supply room, a micro-film reader room, subscriptions to more than 3,000 periodicals, and over 175,000 volumes. A budget of sufficient size to increase the volumes by several thousand per year assures an adequate future of excellent service to Lamar Tech students and faculty.

Library hours for the Summer Session are: 8:00 a. m. to 9:00 p. m. , Monday through Thursday; 8:00 a. m. to 5:00 p. m. , Friday; 1:00 p. m. to 9:00 p. m. , Sunday. The Library is closed on Saturdays and holidays.

## **Swimming Pool**

Lamar State College of Technology is one of the few schools that has an Olympic-size pool. This is 50 meters. The depth ranges from 4-1/2 feet to 13 feet. The diving area is shaped like an "L" and there are low and high boards.

This pool is restricted to college students, faculty members, and their guests. Guests must be registered at the pool.

Hours will be from 2:30 p. m. to 8:30 p. m. on Tuesday, Wednesday, Thursday, and Friday; Saturday from 1:00 p. m. to 8:30 p. m. ; Sunday from 1:00 p. m. to 6:00 p. m. The pool will be closed Monday.

## **Bookstore**

For the convenience of faculty and students, the College operates its own bookstore where supplies and books, new and used, may be purchased.

Used books which are currently approved may be sold to the bookstore at prices much better than such books would ordinarily bring. Books which must be discontinued are not purchased by the bookstore except at a salvage price.

The bookstore reserves the right to require the seller to prove his ownership.

## SERVICES

### Advisors and Counselors

At or soon after registration each student is assigned a faculty advisor who is available for educational guidance. All students are expected to make appointments with advisors during each semester. Such arrangements are the responsibility of the student.

Guidance sessions will insure that a program of study is pursued in proper sequence and that academic progress is maintained by the student.

A counseling and guidance center for students is located in the Administration Annex, where services are designed to assist students who may be encountering temporary problems of a personal, social, or vocational nature. The program supplies and maintains an up-to-date occupations section in the College library, available to students undecided about careers.

The Counseling Center is under the supervision of the Vice President of Student Affairs.

### Testing and Placement Services

The Testing and Placement Center is located in Room 102 of the Administration Annex and is open 8:00 a. m. to 5:00 p. m. Monday through Friday.

This Center provides testing service for entering students and for others who want it. Non-students wishing to use this service pay a fee depending upon the testing program desired.

Placement service is also provided at this Center and is available to all students, faculty, and former students.

### Health Center

The College maintains a Health Center for the use of students during the long term or summer session.

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 College physician or a registered nurse.

### Veteran's Education

Lamar is approved for educational training under all of the Veterans Educational Assistance programs.

Veterans and their dependents, who are interested in attending Lamar under federal laws which provide educational assistance, are directed to secure information and aid in planning their college work by consulting the Office for Veteran's Education, Room 102, Administration Annex.

### Teacher Certification

Lamar is an approved teacher-certifying agency. All teacher education programs of the college are approved by the Texas Education Agency. Students seeking teacher certification should consult with the Dean of the School of Education regarding requirements, etc.

### Loan Funds and Scholarships

Financial assistance in the form of loans and scholarships is available for a limited number of students. Details may be obtained from the "Bulletin of Financial Aid and Awards" which can be obtained on request to the Director of Student Financial Aid, Lamar State College, Lamar Tech Station, Box 10042, Beaumont, Texas 77705.

## FEES AND EXPENSES

All fees and deposits are payable at the time of registration. The fees are as follows:

### Resident Students

Semester Hours	Tuition	S. S. Fee	Bldg. Use Fee	Total
8	\$35.00	\$6.00	\$26.00	\$ 67.00 / Lab
7	31.00	6.00	13.00	50.00 / Lab
6	27.00	6.00	13.00	46.00 / Lab
5	23.00	6.00	13.00	42.00 / Lab
4	19.00	6.00	13.00	38.00 / Lab
3 or less	15.00	6.00	13.00	34.00 / Lab

### Non-Resident Students

8	\$133.00	\$6.00	\$26.00	\$165.00 / Lab
7	117.00	6.00	13.00	136.00 / Lab
6	100.00	6.00	13.00	119.00 / Lab
5	83.00	6.00	13.00	102.00 / Lab
4	66.00	6.00	13.00	85.00 / Lab
3 or less	50.00	6.00	13.00	69.00 / Lab

### Residence and Dining Hall Fees

Room and Board (Summer)	
Each six weeks . . . . .	\$143.00
Short course, clinic, workshop, etc., rates:	
Per day, room and board . . . . .	3.50
Per day, room only . . . . .	1.25

### Laboratory Fees

For all courses in which the combined credit of lecture and laboratory is from 1 to 3 semester hours, a laboratory fee of \$2.00 is charged for each term. For such courses in which the credit is 4 semester hours or more, the laboratory fee is \$4.00 per term.

### Parking Fees

For students enrolled in either the Fall or Spring semesters and who have paid automobile registration fees, no additional charge is made for the Summer Session. New students will be required to pay parking fees of \$4.00 for both Summer Sessions, or \$2.00 for the second session only. These fees are paid at the time of registration.

### Refund of Fees

No refund is made for dropped courses. A refund of 60% of registration, service, and private lessons fees is made if the student withdraws during the first week of classes. No refund is made after that time.

The withdrawing student must request the refund after official withdrawal and before the end of the summer session.

The time required to process refunds is about 30 days.

# THE GRADUATE SCHOOL

## The Graduate Council

The Graduate Program is administered by the Graduate Council. The membership of the Council consists of representatives from each department offering graduate degrees, with the Dean of the Graduate School acting as chairman. The Council determines the academic policies of the Graduate school.

## Degrees Offered

### Master of Arts

- Master of Arts in English
- Master of Arts in History
- Master of Arts in Government

### Master of Business Administration

### Master of Science

- Master of Science in Health and Physical Education
- Master of Science in Mathematics
- Master of Science in Chemistry
- Master of Science in Speech (Audiology and Pathology)

### Master of Engineering Science

### Master of Engineering

### Master of Education

- Master of Education in Elementary Education
- Master of Education in Secondary Education
- Master of Education in Special Education
- Master of Education in Counseling and Guidance

## 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 Graduate School, Lamar Tech Station, Box 10004, Beaumont, Texas 77705.

## **COURSE DESCRIPTIONS**

# School of Liberal Arts

## DEPARTMENT OF ENGLISH

### English (Eng)

131—Rhetoric and Composition. Intelligent and critical reading of mature exposition; correct and effective expository writing. Collateral readings; frequent themes. Class: 3 hours. Credit: 3 semester hours.

132—Rhetoric and Composition. A continuation of English 131. The research paper. Introduction to literary genres. Class: 3 hours. Credit: 3 semester hours.

138—Survey of Journalism. A study of mass communication and the media involved in the dissemination of news. Particular emphasis given to methods of gathering, writing and presenting the newspapers, magazines, and other media. Does not satisfy freshman English requirement. Class: 3 hours. Credit: 3 semester hours.

231, 232—Survey of British Literature. A critical study of the literature of Great Britain from the Middle Ages to the present. Class: 3 hours. Credit: 3 semester hours.

331, 332—Survey of American Literature. A critical study of the literature of the United States from the colonial period to the present. Class: 3 hours. Credit: 3 semester hours.

334—Advanced Grammar. Intensive analysis of sentences; the concept of structural meaning. Prerequisite: foreign language through 132. Class: 3 hours. Credit: 3 semester hours.

430—History of the English Language. Theory and nature of language. Studies in the growth of English and American forms. Prerequisite: foreign language through 232. Class: 3 hours. Credit: 3 semester hours.

434—Shakespeare. Intensive study of selected major plays. Class: 3 hours. Credit: 3 semester hours.

4313—The American Literary Renaissance: 1820-1860. An intensive study of the major authors of the period from Poe to Melville. Class: 3 hours. Credit: 3 semester hours.

537—Studies in Nineteenth Century English Literature. An intensive study of an author or related authors selected from the period. Course may be repeated for a maximum of six semester hours credit when the topic varies. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

## DEPARTMENT OF GOVERNMENT

### Government (Gov)

231—The American Constitutional System, Federal and State. A study of the background and composition of the national and state constitution;

local government; the federal and state judiciaries; civil liberties. Prerequisite: sophomore standing. Class: 3 hours. Credit: 3 semester hours.

**232—American and State Government Organization and Functions.** A study of political parties; the legislative and executive branches; functions of both national and state government; foreign policy. Prerequisite: sophomore standing. Class: 3 hours. Credit: 3 semester hours.

**337—The Politics of American Foreign Policy.** 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. Class: 3 hours. Credit: 3 semester hours.

**3318—East Asian Governments and Politics.** An introduction to the political ideas, institutions, and processes of China and Japan considered against their social and economic development with special emphasis on the political problems of the contemporary scene. Class: 3 hours. Credit: 3 semester hours.

**433—History of Political Thought III.** A continuation of Government 432 from Karl Marx to the present with attention given to modern American thought. Class: 3 hours. Credit: 3 semester hours.

**439—Comparative Public Administration.** A study of bureaucratic structures and functions of advanced and developing nations, emphasizing comparison of relationships between environments and administrative processes. Class: 3 hours. Credit: 3 semester hours.

## **DEPARTMENT OF HISTORY**

### **History (His)**

**131—History of World Civilization.** Survey of world history to 1660. Class: 3 hours. Credit: 3 semester hours.

**132—History of World Civilization.** Survey of world history from 1660 to the present. Class: 3 hours. Credit: 3 semester hours.

**134—History of Texas.** Survey of Texas history from the beginning to the present time. Class: 3 hours. Credit: 3 semester hours.

**231—History of the United States.** Survey of United States history to 1865. Prerequisite: sophomore standing. Class: 3 hours. Credit: 3 semester hours.

**232—History of the United States.** Survey of United States history from 1865 to the present. Prerequisite: History 231. Class: 3 hours. Credit: 3 semester hours.

**431—The Old Regime.** Western Europe from 1610 to 1783. Class: 3 hours. Credit: 3 semester hours.

**432—The French Revolution and Napoleon.** Western Europe from 1783 to 1815. Class: 3 hours. Credit: 3 semester hours.



- 4311—Colonial America. Class: 3 hours. Credit: 3 semester hours.
- 4313—The Age of Jackson. Class: 3 hours. Credit: 3 semester hours.
- 4314—The American Civil War. Class: 3 hours. Credit: 3 semester hours.
- 4318—Classical Civilization. Greece and Rome from earliest times to the fall of the Roman Empire in the West. Class: 3 hours. Credit: 3 semester hours.
- 4328—Contemporary America: The United States Since 1940. Class: 3 hours. Credit: 3 semester hours.
- 536—Seminar in Southern History. Course may be repeated for a maximum of six semester hours credit when the topic varies. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.
- 532—Readings in American History. Course may be repeated for a maximum of six semester hours credit when the topic varies. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.
- 669A-669B—Thesis. Prerequisite: admission to candidacy for the master's degree. Credit: 6 semester hours.

## DEPARTMENT OF MODERN LANGUAGES

### French (Fre)

131—First Year French. Pronunciation, conversation, reading, dictation, fundamentals. Use of tapes. Class: 3 hours. Credit: 3 semester hours per course.

132—First Year French. Reading, grammar, exercise in composition, conversation. Use of tapes. Prerequisite: French 131 or equivalent determined by examination. Class: 3 hours. Credit: 3 semester hours.

231, 232—Reading, composition, conversation. Prerequisite for French 231: French 132 or equivalent. Class: 3 hours. Credit: 3 semester hours per course.

235—French Conversation. Recommended for majors in French and for students desiring teacher certification in French. Not open to native speakers. When topic is different and with approval of department head, the course may be repeated for credit. Prerequisite: completion of French 231 or 232 with a grade of "A" or "B." Class: 3 hours. Credit: 3 semester hours.

### German (Ger)

131—First Year German. Pronunciation, conversation, reading, dictation, fundamentals. Use of tapes. Class: 3 hours. Credit: 3 semester hours.

132—First Year German. Reading, grammar, conversation, exercises in composition. Use of tapes. Prerequisite: German 131 or equivalent determined by examination. Class: 3 hours. Credit: 3 semester hours.

231, 232—**Reading, Composition, Conversation.** Prerequisite for German 231: German 132 or equivalent. Class: 3 hours. Credit: 3 semester hours per course.

#### Spanish (Spa)

131—**First Year Spanish.** Pronunciation, conversation, reading, dictation, fundamentals. Use of tapes. Class: 3 hours. Credit: 3 semester hours.

132—**First Year Spanish.** Reading, grammar, conversation, exercises in composition. Use of tapes. Prerequisite: Spanish 131 or equivalent determined by examination. Class: 3 hours. Credit: 3 semester hours

231, 232—**Reading, Composition, Conversation.** Prerequisite for Spanish 231: Spanish 132 or equivalent. Class: 3 hours. Credit: 3 semester hours per course.

334—**Introduction to Spanish-American Literature.** Survey of Spanish-American literature and civilization. Study of outstanding writers and their works. Lectures, readings, oral and written reports. Prerequisite: Spanish 232. Class: 3 hours. Credit: 3 semester hours.

### DEPARTMENT OF PSYCHOLOGY

#### Psychology (Psy)

131—**Introduction to Human Behavior.** Study of the major characteristics of human behavior, with special emphasis on abilities, motivation, adjustment, mental life, and social behavior. Class: 3 hours. Credit: 3 semester hours.

231—**General Psychology.** Introduction to general psychology. Class: 3 hours. Credit: 3 semester hours.

232—**Introduction to Statistical Methods.** Statistical concepts and techniques used in psychological research. Class: 3 hours. Credit: 3 semester hours.

234—**Child Psychology.** A study of the growth and development of behavior patterns in children. Class: 3 hours. Credit: 3 semester hours.

235—**Adolescent Psychology.** A study of the growth and development of behavior patterns in adolescents. Class: 3 hours. Credit: 3 semester hours.

332—**Psychology of Personality.** A study of several of the major theories of personality organization and adjustment processes. Prerequisite: Psy 231 or recommendation of department head. Class: 3 hours. Credit: 3 semester hours.

**334—Industrial Psychology.** An introduction to the application of psychological tools and techniques in industrial settings. Stress will be placed on selecting, training, and evaluating workers. Prerequisite: Psy 333 or recommendation of department head. Class: 3 hours. Credit: 3 semester hours.

**337—Psychology of Adjustment.** A study of normal adjustment and commonly used defenses against anxieties. Class: 3 hours. Credit: 3 semester hours.

## DEPARTMENT OF SOCIOLOGY

### Anthropology (Ant)

**231—Introduction.** The nature, development, and differentiation of man as a biological organism and of culture as his distinctive creation and possession. Class: 3 hours. Credit: 3 semester hours.

**331—Culture and Personality.** The influences of culture upon individual behavior and personality. Prerequisite: Ant 231 or 233 or Soc. 131. Class: 3 hours. Credit: 3 semester hours.

### Geography (Geg)

**230—Introduction.** Basic features of the earth; climate, landforms, earth-sun relations. Relationship of culture and physical environment in selected geographical areas. Class: 3 hours. Credit: 3 semester hours.

### Philosophy (Phl)

**131—Introduction to Philosophy.** General characteristics of philosophy as a field of knowledge and as a method of inquiry. Class: 3 hours. Credit: 3 semester hours.

### Sociology (Soc)

**131—Introduction.** Sociology as a field of knowledge. Basic terms, concepts, and theories of sociology applied to an explanation of human behavior, personality, groups, and society. Class: 3 hours. Credit: 3 semester hours.

**132—Social Problems.** Attributes of society and of persons which are subject to disapproval; the causes, extent, and consequences of these problems; programs and prospects of their resolution. Class: 3 hours. Credit: 3 semester hours.

**233—Marriage and the Family.** Characteristics of and problems within courtship, marriage, and family in American society. Class: 3 hours. Credit: 3 semester hours.

331—**The Field of Social Welfare.** Historical development and current theory and practice of social welfare and social work. Class: 3 hours. Credit: 3 semester hours.

332—**Social Psychology.** Social and cultural influences upon individual behavior and personality; inter-personal and inter-group relations and collective behavior. Class: 3 hours. Credit: 3 semester hours.

333—**Urban Sociology.** Social and ecological processes in the urbanization movement; characteristics of urban society and culture. Class: 3 hours. Credit: 3 semester hours.

334—**Industrial Sociology.** The social structure of industry and of the trade union; inter-relationships of industry, union, and society; personal, social, and cultural factors in industrial organization and operation. Class: 3 hours. Credit: 3 semester hours.

335—**The Family.** Structural and functional characteristics of the family as a basic institution. Class: 3 hours. Credit: 3 semester hours.

336—**Race Relations.** Racial and cultural minority groups within society; causes and consequences of prejudice and discrimination and of changes in the relationships between minority and dominant groups. Class: 3 hours. Credit: 3 semester hours.

338—**Criminology.** Extent of and explanations for crime in American society; agencies dealing with crime and criminals; programs for control and prevention of crime and delinquency. Class: 3 hours. Credit: 3 semester hours.

339—**Juvenile Delinquency.** The nature, incidence, and explanations for juvenile delinquency in American society; agencies and programs for prevention and control of delinquency. Class: 3 hours. Credit: 3 semester hours.

436—**Social Movements.** Historical, structural, and tactical considerations in the development of major systems of belief and practice within society; political movements in American society. Class: 3 hours. Credit: 3 semester hours.

## COURSES IN BIBLE AND RELIGIOUS EDUCATION

### Bible (Bib)

111—**Acts of the Apostles.** The history of the early Christian movement. Class: 1 hour. Credit: 1 semester hour.

132—**The New Testament.** A critical study of the New Testament, its historical context, and the beginnings of the Christian Church. Class: 3 hours. Credit: 3 semester hours.

# School of Business

## DEPARTMENT OF ACCOUNTING

### Accounting (Acc)

**231—Principles of Accounting.** Procedures and techniques used in recording business transactions and preparing financial statements. Journalization; posting; statement preparation; controlling accounts and subsidiary ledgers; adjusting and closing entries; voucher system. Class: 3 hours. Credit: 3 semester hours.

**232—Principles of Accounting.** Continuation of Acc 231 with special attention given the financial statements; cash and receivables; fixed assets; prepaid expenses; liabilities; capital stock and related owners' equity; manufacturing accounting; installment sales; branch accounts. Class: 3 hours. Credit: 3 semester hours.

**331—Intermediate Accounting.** Analysis of special problems and theories of current assets and corporation accounting. Capital stock; surplus and dividends; treasury stock; cash; receivables; inventories; net income concepts; corrections of prior year's earnings. Prerequisite: Acc 232. Class: 3 hours. Credit: 3 semester hours.

**332—Intermediate Accounting.** Continuation of Acc 331 with emphasis on the interpretation of data relative to managerial decisions. Investments; fixed assets; liabilities and reserves; analysis of operations; ratios; statement of application of funds. Class: 3 hours. Credit: 3 semester hours.

**334—Cost Accounting.** Job order and process cost approach to the control of manufacturing operation. Material; labor; overhead allocation; departmentalization; budgeting; data presentation. Prerequisite: Acc 232. Class: 3 hours. Credit: 3 semester hours.

**431—Advanced Accounting.** Selected theories relative to business enterprises. Partnership operations; venture accounts; consignments; installment sales; insurance; receivership; interest; annuities. Prerequisite: Acc 332. Class: 3 hours. Credit: 3 semester hours.

**432—Advanced Accounting.** Continuation of Acc 431 including the preparation and interpretation of consolidated statements for related corporations. Estates and trusts; home office and branch records; parent and subsidiary relationships; consolidated statements. Class: 3 hours. Credit: 3 semester hours.

## DEPARTMENT OF BUSINESS ADMINISTRATION

### Business Administration (BA)

**220—Computer Programming for Business Problems.** An introduction to programming to familiarize the student with computer approaches to solving business problems; interpretive routines and compilers are used; problem-oriented languages. Problems involve inventory, production, taxes, break-even analysis, compound interest, and stock-turnover rates. Prerequisite: 6 hours of mathematics. Class: 1 hour. Laboratory: 2 hours. Credit: 2 semester hours.

**331—Business Law.** Principles of law which form the legal framework for business activity. Applicable statutes; contracts; agency. Class: 3 hours. Credit: 3 semester hours.

**332—Principles of Finance.** A survey of the field of business finance. Financial planning; administration and control of financial activities; short-term and long-term financing; advantages and disadvantages of the various business organizations; security markets; commercial banking systems; Federal Reserve system; financial reorganization. Class: 3 hours. Credit: 3 semester hours.

**333—Insurance.** Application of fundamental principles to life, property, and casualty insurance. Contracts; premiums; legal statutes; risk; programming. Class: 3 hours. Credit: 3 semester hours.

**334—Marketing.** The social and economic aspects of distribution as found in business organizations. Structures; functions; institutions; problems. Class: 3 hours. Credit: 3 semester hours.

**335—Industrial Management.** Scientific management as applied to productive processes in industry. Plant location and layout; organization; lighting, heating, and power; personnel; efficiency; motivation; purchasing; controls. Class: 3 hours. Credit: 3 semester hours.

**336—Personnel Management.** Problems of personnel relations in business and industry. Recruitment; job description and analysis; testing and training; morale; records. Class: 3 hours. Credit: 3 semester hours.

**337—Principles of Selling.** Precepts of effective selling in the American economy. Sales process; prospecting; presentation; objectives; close. Class: 3 hours. Credit: 3 semester hours.

**338—Retailing.** The nature and functions of retailing in the marketing structure. Development; organization; methods; policies of operation; problems. Class: 3 hours. Credit: 3 semester hours.

**3311—Labor Law.** Historical interpretations and present provisions of regulations governing labor. Common law; state and federal statutes; Fair Labor Standards Act; workmen's compensation; social security; liability; United States Department of Labor; social legislation. Class: 3 hours. Credit: 3 semester hours.

**431—Business Statistics.** Introduction to the quantitative methods of analysis as applied to business problems. Analysis; presentation; frequency distribution; index numbers; dispersion; correlation; time series. Prerequisite: 6 hours of mathematics. Class: 3 hours. Credit: 3 semester hours.

**432—Business Statistics.** Continuation of BA 431 including the theory and practical application of the normal curve, probable error, and sampling. Index numbers; secular trend; seasonal variations; correlation; marketing research; forecasting, budgeting; quality control and investment analysis. Class: 3 hours. Credit: 3 semester hours.

**433—Advertising.** Social and economic character of advertising. Production; administration; copy procedure; media; layout; budgets; organization; evaluation. Class: 3 hours. Credit: 3 semester hours.

**435—Human Relations.** Case-study approach to business problems in human relations. Recognition and analysis of problems; formulation and communication of proposed solutions; critique. Class: 3 hours. Credit: 3 semester hours.

**4311—Sales Management.** Planning, organization, and control of sales operations. Functions programs; production; development; distribution channels; contracts; campaigns; customer and price policies; administration. Class: 3 hours. Credit: 3 semester hours.

**4312—Marketing Problems.** Case problems in planning and controlling marketing organizations. Budgeting; operation; turnover; inventory; store promotion; research. Class: 3 hours. Credit: 3 semester hours.

**4314—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. Class: 3 hours. Credit: 3 semester hours.

## **DEPARTMENT OF ECONOMICS**

### **Economics (Eco)**

**231—Principles.** Introduction to economic principles. Emphasizes monetary theory; national income analysis; fluctuations and growth; public finance; international trade; and current economic problems. Class: 3 hours. Credit: 3 semester hours.

**232—Principles.** Continuation of Eco 231. Allocation of resources; determination of output and prices; distribution; and managerial economics. Class: 3 hours. Credit: 3 semester hours.

**233—Principles and Policies.** Comprehensive introduction to economic principles and problems for non-business students. Resource utilization; price determination; distribution of income; fiscal and monetary problems; economic growth. Class: 3 hours. Credit: 3 semester hours.

**339—Economics of the Firm.** The application of the techniques of economic analysis to the managerial problems of business enterprises utilizing a problem-solving or case study approach. Goals of the firm; business forecasting; demand analyses; cost analyses; game theory; pricing policies; governmental relations. Class: 3 hours. Credit: 3 semester hours.

**432—Money and Banking.** Functions and policies of the American monetary and banking system. Commercial banking; central banking; Federal Reserve System; monetary theories and policies; economic stabilization and growth. Class: 3 hours. Credit: 3 semester hours.

**437—Intermediate Theory.** Economic analysis and methodology. Distribution; theory; price theory; imperfect competition and monopoly. Class: 3 hours. Credit: 3 semester hours.

**438—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; stabilization theory; investment and income relationship; monetary and fiscal policies. Class: 3 hours. Credit: 3 semester hours.

**533—Contemporary Literature and Thought.** Readings, special projects, studies, and research in the current professional literature. The student will become acquainted with learned journals, economists, their current thinking, present issues and emphases in the field. Class: 3 hours. Credit: 3 semester hours.

## **DEPARTMENT OF SECRETARIAL SCIENCE**

### **Secretarial Science (SS)**

**135—Records.** Methods and procedures in classifying and storing business records. Filing systems; records management and retention; duplicating equipment; dictating, transcribing, and office machines; evaluation. Class: 3 hours. Credit: 3 semester hours.

**231—Secretarial Practice.** Practical secretarial projects emphasizing use of functional English in correspondence; good judgment in office routine. Class: 3 hours. Credit: 3 semester hours.

**331—Secretarial Office Procedures.** Analysis of responsibilities and duties of the administrative secretary. Procedure; work simplification; supervision; office etiquette and ethics; sources of information. Class: 3 hours. Credit: 3 semester hours.

**332—Dictation and Transcription.** Continuation of SS 363 with stress on building shorthand speed and improving transcription skill. Vocabulary development; sustained dictation; volume production. Class: 3 hours. Credit: 3 semester hours.

**344—Business Communications.** Theories, practice, and problems involved in communications in business and industry with emphasis on use of practical psychology, good judgment. Letters; reports; memoranda. Prerequisite: touch system of typewriting. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours.



## DEPARTMENT OF CHEMICAL ENGINEERING

### Chemical Engineering (CHE)

332—Chemical Process Principles III. Generalized approach to heat transfer, conduction, convection, and radiation will be considered. An introduction to mass transfer will be made. Class: 3 hours. Credit: 3 semester hours.

333—Thermodynamics II. Properties of non-ideal substances, Maxwell relations, vapor pressure, latent heat, enthalpy-concentration diagrams, chemical equilibria, equilibrium constants, fugacity, and activity. Prerequisite: CHE 342. Class: 3 hours. Credit: 3 semester hours.

342—Chemical Process Principles I. The application of mathematics, chemistry, and physics to solution of problems in industrial chemistry. Included are topics on mass and energy balances, phase equilibria, and economic evaluations. Class: 3 hours. Laboratory: 3 hours. Credit: 4 semester hours. Prerequisite: Egr 234.

## School of Engineering

### Engineering (Egr)

132—Mechanics I. Utilizes vectors in the study of particle mechanics. Energy methods. Prerequisite: Egr 122 or concurrent; Mth 139 or concurrent. Class: 3 hours. Credit: 3 semester hours.

231—Mechanics II. Kinematics of rigid bodies, kinetics of rigid bodies, work and energy, impulse and momentum. Prerequisite: Egr 132; Mth 231 or concurrent. Class: 3 hours. Credit: 3 semester hours.

232—Mechanics III. Effect of loads on deformable bodies. Uniaxial and biaxial stress-strain relationships, statically indeterminate systems. Equations developed for torsion, bending and buckling. Prerequisite: Egr 231 and Mth 232. Class: 3 hours. Credit: 3 semester hours.

233—Electric Circuits and Fields. Electrical and magnetic units; heating effects; basic circuit analysis; electric and magnetic fields; ferromagnetic circuits; inductance and capacitance; principles of energy conversion and measurements. Prerequisite: Phy 241; Math 232 or concurrent. Class: 3 hours. Credit: 3 semester hours.

333—Electronics. A study of charged particles; metals and semi-conductors; vacuum tube and transistor characteristics; gaseous conduction; rectifiers and power supplies. Prerequisite: Egr 233 and 221; Mth 232 and Mth 233. Class: 3 hours. Credit: 3 semester hours.

**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**Electrical Engineering (EE)**

**317—Junior E.E. Laboratory.** To be taken in parallel with EE 331. Laboratory: 3 hours per week. Credit: 1 semester hour.

**331—Circuits I.** A study of instantaneous current and voltage, the impedance function, complex algebra in circuit analysis, average power and effective current, equivalent networks, resonance, graphical methods, loop and node network equations, matrix solutions, and network theorems. Prerequisite: Egr 233, Mth 232, and Mth 233. Class: 3 hours. Credit: 3 semester hours.

**332—Circuits II.** Coupled circuits, balanced and unbalanced polyphase circuits, symmetrical components, non-linear elements, Fourier series and integral, transient response, complex frequency plane, Laplace transformation. Prerequisite: EE 331. Class: 3 hours. Credit: 3 semester hours.

**335—Energy Conversion I (Direct).** 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 and 234; parallel: Egr 333. Class: 3 hours. Credit: 3 semester hours.

**336—Energy Conversion II (Electromechanical).** A study of electro-mechanical energy conversion principles. Lagrange's equations; incremental motion transducers; rotating machines. Prerequisite: EE 331. Class: 3 hours. Credit: 3 semester hours.

**DEPARTMENT OF INDUSTRIAL ENGINEERING**

**Industrial Engineering (IE)**

**339—Manufacturing Processes.** Properties of engineering materials and methods of processing these materials. Class: 3 hours. Credit: 3 semester hours.

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Mechanical Engineering (ME)**

**331—Transport Theory I.** Theory of conduction and potential flow, radiation, and convection with engineering techniques and applications. Prerequisite: Egr 331; ME 334 in parallel. Class: 3 hours. Credit: 3 semester hours.

## DEPARTMENT OF MATHEMATICS

### Mathematics (Mth)

131—Finite Mathematics I. Algebra, logarithms, exponents and introductory concepts of coordinate geometry. Prerequisite: 2 units of high school mathematics. Class: 3 hours. Credit: 3 semester hours.

132—Finite Mathematics II. Introductory concept of sets, permutations and combinations, elementary principles of probability and statistics. Class: 3 hours. Credit: 3 semester hours.

133—Analytical Trigonometry. Trigonometric functions and their applications, trigonometric identities and equations. Prerequisite: 1½ units of high school algebra and 1 unit in plane geometry. Class: 3 hours. Credit: 3 semester hours.

134—College Algebra. Properties of real numbers, exponents, radicals, relations and functions, determinants, theory of equations, sequences and series. Prerequisite: 2 years of high school algebra. Class: 3 hours. Credit: 3 semester hours.

135—Contemporary Mathematics I. Sets, counting numbers, numeration systems, and integers. CUPM for Education majors only. Class: 3 hours. Credit: 3 semester hours.

136—Contemporary Mathematics II. Elementary number theory, rational numbers, decimals, real numbers and finite number systems. CUPM for Education majors only. Prerequisite: Mth 135. Class: 3 hours. Credit: 3 semester hours.

137—Contemporary Mathematics III. Experimental and informal geometry. The structure of geometry in terms of sets with some elementary theorems and proofs. Measurements and construction. CUPM for Education majors only. Prerequisite: Mth 136. Class: 3 hours. Credit: 3 semester hours.

1381—Analytic Geometry. Straight lines, conic sections, transformation of coordinates, polar coordinates, and solid analytic geometry. Prerequisite: Mth 133 or high school trigonometry. Class: 3 hours. Credit: 3 semester hours.

1391—Calculus I. Limits, derivatives, applications of derivatives, integration with applications, and transcendental functions. Prerequisite: Mth 1381. Class: 3 hours. Credit: 3 semester hours.

435—Turbomachinery. Flow problems encountered in the design of water, gas and steam turbines, centrifugal and axial-flow pumps and compressors. Prerequisite: ME 331. Class: 3 hours. Credit: 3 semester hours.

4313—Transport Theory II. Transport processes in incompressible boundary layers. Transport with change of phase. Compressible flow in nozzles, ducts, and turbomachines. High speed compressible boundary layer flow. Slip and free molecule flow. Prerequisite: ME 331. Class: 3 hours. Credit: 3 semester hours.

**2311—Calculus II.** Methods of integration, hyperbolic functions, vectors and parametric equations, and solid geometry and vectors. Prerequisite: Mth 1391. Class: 3 hours. Credit: 3 semester hours.

**2321—Calculus III.** Partial differentiation, multiple integrals, infinite series, differential equation. Prerequisite: Mth 2311. Class: 3 hours. Credit: 3 semester hours.

**233—Linear Algebra.** Set notation, number fields, groups, vectors, geometry of space, vector spaces, determinants, linear transformations, matrices. Prerequisite: Analysis II. Class: 3 hours. Credit: 3 semester hours.

**234—Probability and Statistics.** Permutations and combinations, factorials, elementary principles of probability, mathematical expectation, averages, curve fitting, engineering applications. Prerequisite: Analysis III. Class: 3 hours. Credit: 3 semester hours.

**3301—Introduction to Data Processing.** Types of digital computing systems. Design of computation for computing machinery. Prerequisite: Mth 232. Class: 3 hours. Credit: 3 semester hours.

**331—Differential Equations.** Analytical solution of ordinary differential equations in terms of elementary and classical functions. Application to problems in geometry, engineering, and physics. Introduction to solution by series. Prerequisite Mth 232. Class: 3 hours. Credit: 3 semester hours.

**338, 339—Advanced Calculus.** The number system, the concept of a function, limits, sequences, continuity, differentiability, the Riemann integral, functions of several variables, differentiable functions of several variables, multiple integrals, improper integrals, infinite series, Taylor's series, and Fourier series. Prerequisite: Mth 232. Class: 3 hours. Credit: 3 semester hours for each course.

**431, 432—Introduction to Functions of a Complex Variable.** Review of theorems from analysis and point set theory followed by a study of analytic functions from the Cauchy-Riemann and Weierstrass points of view. Compact sets, uniform convergence, Taylor Expansion Theorem, analytic continuation, Laurent expansions, calculus of residues, conformal mapping. Prerequisite: Mth 3311. Class: 3 hours. Credit: 3 semester hours each course.

**4312—Advanced Data Processing.** Application of computing machinery. Programming and operation. Prerequisite: Mth 3301. Class: 3 hours. Credit: 3 semester hours.

**5311—Foundations of Geometry.** Foundations of geometry, transformations, basic concepts, and selected Euclidean topics. Class: 3 hours. Credit: 3 semester hours.

**5312—Linear Algebra.** Systems of equations, vector spaces, linear transformations and matrices. Class: 3 hours. Credit: 3 semester hours.

**533—Calculus of Variations.** The Euler-Lagrange differential equation, necessary conditions of Legendre, Jacobi and Weierstrass sufficient conditions for an extreme brachistochrone problem, geodesics, surfaces of revolution of minimum area, other problems as time permits. Class: 3 hours. Credit: 3 semester hours.

539—Infinite Series. Sequences, power series, series of functions, complex series, expansion of functions, tests for convergence, uniform convergence, conditions for rearranging terms in a series. Fourier series, Lambert series, Weierstrass theorem on double series, asymptotic expansions, summation of series. Class: 3 hours. Credit: 3 semester hours.

# School of Education

## DEPARTMENT OF EDUCATION

### Education (Edu)

**330—Teaching Media and Programed Instruction.** Observation, demonstration, and practice in utilizing modern teaching media, including teaching machines and programing. Class: 3 hours. Credit: 3 semester hours.

**331—Foundations in Education.** History, philosophy, and organization of education with particular emphasis on American education. Class: 3 hours. Credit: 3 semester hours.

**332—Educational Psychology.** Principles and psychological problems involved in education and the practical application of psychological principles to teaching. Class: 3 hours. Credit: 3 semester hours.

**333—Language Arts in the Elementary School.** The study and use of materials and techniques in the teaching of oral and written communication. Prerequisite: Edu 331 and 332. Class: 3 hours. Credit: 3 semester hours.

**334—Curriculum and Materials in the Elementary School.** A survey of the elementary school including philosophy, grouping, class organization, curriculum plans, lesson plans, and materials for teaching. Prerequisite: Edu 331. Class: 3 hours. Credit: 3 semester hours.

**335—Arithmetic in the Elementary School.** A study of the content, materials, and methods used in teaching arithmetic. Prerequisite: Edu 331 and 332. Class: 3 hours. Credit: 3 semester hours.

**338—Curriculum, Materials, and Evaluation in the Secondary School.** The structure and organization of the curriculum, materials used, and types of evaluation utilized. Prerequisite: Edu 331. Class: 3 hours. Credit: 3 semester hours.

**339—Reading in the Elementary School.** Methods and materials for teaching reading in the elementary school. Emphasis upon the placement of materials and lesson planning. Prerequisite: Edu 334. Class: 3 hours. Credit: 3 semester hours.

**3301—Survey in the Education of Exceptional Children.** An orientation to characteristics, programs, and problems of children who are exceptional—mentally, physically, or emotionally. Designed as an overview of the field. A first course for those planning to certify in Special Education. Class: 3 hours. Credit: 3 semester hours.

**3311—Nature and Needs 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. Observation opportunities provided. Class: 3 hours. Credit: 3 semester hours.

3312—**Education of the Physically Handicapped.** Description and characteristics of children with physical disabilities. Consideration of etiological factors and limitations in regular and special classes, hospital and home-bound instruction. Class: 3 hours. Credit: 3 semester hours.

430—**Education of the Mentally Retarded.** Problems in the selection, preparation, development, and use of curriculum materials. Use of resource, selection of equipment, employment opportunities, and a review of recent research. Opportunities provided for functional experiences. Class: 3 hours. Credit: 3 semester hours.

431—**Psychology of Exceptional Children.** Social and emotional characteristics and adjustment problems of children and youth who are exceptional. Class: 3 hours. Credit: 3 semester hours.

433—**Corrective Reading.** Causes of reading disability, methods of diagnosis, and remedial instruction. Prerequisite: Edu 339. Class: 3 hours. Credit: 3 semester hours.

434—**Classroom Management and Evaluation—Elementary.** A study of problems relating to classroom management, pupil control, methods of evaluation, reporting to parents, and record keeping. Prerequisite: Edu 334 and senior standing. Class: 3 hours. Credit: 3 semester hours.

437—**Science and Social Studies in the Elementary School.** Content, methods, and materials for teaching science and social studies in the elementary school. Prerequisite: Edu 334. Class: 3 hours. Credit: 3 semester hours.

438—**Classroom Management—Secondary.** Organization of subject matter, lesson planning, classroom management, and general methods of teaching. Prerequisite: Edu 338. Class: 3 hours. Credit: 3 semester hours.

439—**Methods and Materials for Learning Disabilities.** Classroom management and teaching procedures for children with learning disabilities due to possible minimal brain injury. Discussion of behavioral characteristics and problems in diagnosis. Class: 3 hours. Credit: 3 semester hours.

530—**Structure and Organization of Public Education—Analysis of the operation and functions of public education at the local, state, and national levels.** Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

531—**Research in Elementary Education.** Familiarity with significant research in elementary education. Emphasis on terminology, methodology, and spirit of systemic research. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

532—**Current Issues in Education.** Current controversies and trends in public education. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

535—**Advanced Educational Psychology.** Current theories and developments in the process of learning. Emphasis on motivation, transfer, and learning techniques. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

537—**The Elementary School Curriculum.** Analysis of the objectives, organization, and content of the different areas of the elementary school curriculum. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

538—**Problems in Teaching Arithmetic and Science.** Study of current developments and trends with emphasis upon individual teaching programs. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

539—**Developmental Reading.** Methods for extending and refining fundamental reading habits and attitudes, and for increasing reading efficiency. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

5301—**Current Literature for Children and Adolescents.** Survey of recent literature for children and adolescents. Emphasis given to non-fiction in such areas as earth science and social science. Extensive reading of children's literature. Prerequisite: graduate standing. Class: 3 hours. Credit: 2 semester hours.

5315—**Problems and Issues in Special Education.** Appraisal of current problems, trends and practices in the education and care of exceptional children. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

5317—**Secondary School Curriculum.** Analysis of the objectives, organization, and content of the different areas of the secondary school curriculum. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

5319—**Problems in Secondary School Instruction.** Consideration of the instructional problems encountered by experienced teachers in the secondary schools. Prerequisite: graduate standing and two years of teaching experience. Class: 3 hours. Credit: 3 semester hours.

669A-669B—**Thesis:** Prerequisite: admission to candidacy for the Master of Education Degree. Credit: 6 semester hours.

## **DEPARTMENT OF HOME ECONOMICS**

### **Home Economics (HEc)**

235—**Meal Management.** Meal planning and food selection for nutritional adequacy throughout the life cycle for different socio-economic groups. Class: 1 hour. Laboratory: 4 hours. Credit: 3 semester hours.

330—**Consumer Economics.** Consumer information and an analysis of problems in household economics and finance. Class: 3 hours. Credit: 3 semester hours.

332—**Human Nutrition.** Nutrition and functions of nutrients related to the chemistry and physiology of the human body throughout the life cycle. Class: 3 hours. Laboratory: 1 hour. Credit: 3 semester hours.



338—**Philosophy and Principles of Vocational Home Economics.** Interpretation of Home Economics as a discipline concerned with developing student competencies. Class: 3 hours. Credit: 3 semester hours.

438—**Methods and Materials for Teaching Home Economics.** Objectives, methods, and techniques of teaching vocational home economics in the public school. Prerequisite: Edu 331 and 332; and HEC 338. Class: 3 hours. Credit: 3 semester hours.

444—**Home Management.** Management of home resources—human and material. Opportunities provided for group living and practical experiences in managerial processes in the Home Management residence. Housing fee: \$27.50 per month except married students not living in home, fee \$15.00 per month. Dormitory rent will be transferred for dormitory students. Class: 2 hours. Laboratory to be arranged. Credit: 4 semester hours.

## DEPARTMENT OF PHYSICAL AND HEALTH EDUCATION FOR MEN

### Physical Education (HPE)

#### Activity Courses for Men

111M—**Activity.** First activity course required of all men students seeking a degree at Lamar. A basic physical fitness program designed to bring all male students to a level of physical fitness which will allow them to perform their normal daily tasks with ease and have a comfortable reserve of energy. Class: 3 hours. Credit: 1 semester hour.

112M—**Activity.** Second required activity course. A continuation of the physical fitness program and a brief introduction to the various recreational activities offered in the second year of the required program. Prerequisite: HPE 111M. Class: 3 hours. Credit: 1 semester hour.

211M-212M—**Activity.** Continuation of required physical education activity. Consists of instruction in fundamentals, rules and participation in selected team, dual and individual sports and activities of the student's choice. Prerequisite: HPE 111M and 112M. Class: 3 hours. Credit: 1 semester hour.

#### Professional Courses

227M—**Swimming.** Demonstrations, lectures, and practice in the basic techniques of swimming and water safety. Class: 2 hours. Credit: 2 semester hours.

228—**Senior Life Saving.** Lectures, demonstrations, and practice in the technique of life saving. Prerequisite: HPE 227 (M). Class: 1 hour. Laboratory: 2 hours. Credit 2 semester hours.

229—**Water Safety Instructor Course.** Organization, conditioning, and preparation of student in the required swimming and life saving skills.

Advanced students may qualify for American Red Cross Water Safety Instructor. Prerequisite: Current Red Cross Senior Life Saving Certificate. Class: 1 hour. Laboratory: 2 hours. Credit: 2 semester hours.

**233—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. Prerequisite: HPE 132. Class: 3 hours. Credit: 3 semester hours.

**320—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. Class: 2 hours. Credit: 2 semester hours.

**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. Class: 3 hours. Credit: 3 semester hours.

**416—Student Teaching in Driver Education.** Supervised observation and teaching of driver education in actual class and behind-the-wheel training. Prerequisite: "B" in HPE 334. Class: 1 hour. Credit: 1 semester hour.

**430—Problems in Physical and Health Education, Recreation and Safety.** 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. Class: by consultation. Credit 3 semester hours.

**431—Recreation Leadership.** A survey of the field of recreation with stress on playground management, program making, observation and practice in activities and methods, leadership and skills. Include problems in the promotion of recreation in the community. Offered summer session only. Prerequisite: 15 hours in physical education. Class: 3 hours. Credit: 3 semester hours.

**435—Adapted Physical Education.** Diagnosis and recognition of remedial cases. Instructional and remedial activities for individuals needing modified or special exercise programs. Prerequisite: 12 hours in physical education, Bio 141-142 and 330. Class: 3 hours. Credit: 3 semester hours.

**531—Cultural Foundations of Physical Education.** A study of the historical and cultural foundations of sport and physical education activities, their origin and influence upon modern man. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

**534M—Scientific Basis of Exercise.** A study of the role of physical activities and their effects on the human organism through the use of professional literature and laboratory experimentation. Prerequisite: graduate standing; Bio 330 and HPE 333 or their equivalent. Class: 3 hours. Credit: 3 semester hours.

DEPARTMENT OF PHYSICAL AND HEALTH EDUCATION  
FOR WOMEN

Physical and Health Education for Women (HPE)

Theory Courses

335—Physical Education and Recreation for the Atypical Child. 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. Class: 3 hours. Credit: 3 semester hours.

338—Health Education in the Elementary School. Includes health problems and interests of elementary school children, the promotion of the healthful school environment, an understanding of health appraisal of school children and curriculum construction. Class: 3 hours. Credit: 3 semester hours.

4101, 4201, 4301—Workshop in Health and Physical Education. 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 sufficiently from one previously taken. Class: 1 to 3 hours. Credit: 1 to 3 semester hours.

531—Cultural Foundations of Physical Education. A study of history and cultural foundations of sport and physical education activities, their origin and influence upon modern man. Class: 3 hours. Credit: 3 semester hours.

535—Theories of Movement. Movement theories of Delsarte and Laban, Graham, and exploration of current phenomenological approaches to movement.

Activity Courses

111, 112—Activity. Required activity for women. Selected body building exercises, and physical activities directed toward increasing the physical fitness of students. Class: 3 hours. Credit: 1 semester hour.

211, 212—Activity. Continuation of HPE 111 and 112. Class: 3 hours. Credit: 1 semester hour.

113—Beginning Swimming and Diving. Demonstrations, lectures and practice in the basic techniques of swimming and diving. With principles of water safety for various levels of skill and emphasis on individual achievement of swimming, diving, and safety skills. Class: 3 hours. Credit: 1 semester hour.

114—Intermediate Swimming and Diving. Demonstrations, lectures and practice in the techniques and analysis of selected swimming strokes and dives. Class: 3 hours. Credit: 1 semester hour.

115—Lifesaving. Demonstrations, lectures and practice in lifesaving. The student may obtain the American Red Cross Lifesaving Certificate upon completion of specific requirements. Tryout required for admittance. Laboratory: 3 hours. Credit: 1 semester hour.

# School of Sciences

## DEPARTMENT OF BIOLOGY

### Biology (Bio)

**141-142—General Biology.** A brief survey of living things; a comparison of structural and functional adaptations for fundamental life processes; principles of reproduction, inheritance, development and phylogenetic relationships; interactions of organisms with the environment. Credit for first semester prerequisite for enrollment in second. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours per semester.

**240—Comparative Anatomy of the Vertebrates.** Comparative anatomy presented from systemic viewpoint. Designed primarily for biology majors, pre-medical, and pre-dental students. Prerequisite: Bio 141-142. Class: 3 hours. Laboratory: 4 hours. Credit: 4 semester hours.

**243-244—Microbiology.** Micro-organisms with emphasis on bacteria in soil, water, milk, and sewage. Laboratory includes the isolation, cultivation, and identification of common bacteria. The last half of the second semester is devoted to the study of bacteria, rickettsiae and viruses in relation to disease; theories of antigen-antibody responses; and the immunization of a laboratory animal. Recommended for biology majors, premedical, pre-dental, and medical technology students. Credit for first semester prerequisite for enrollment in second. Prerequisite: Bio. 141-142. Class: 3 hours. Laboratory: 3 hours. Credit: 4 semester hours per semester.

**245—Microbiology for Nurses.** Micro-organisms with emphasis on those of medical significance. Special consideration is given to problems of personal and community health. Laboratory includes the sterilization of culture media and glassware, cultivation and study of common bacteria. Designed for students in nursing education. Class: 3 hours. Laboratory: 2 hours. Credit 4 semester hours.

**345—General Botany.** Introduction to plant structure and functions with emphasis on the seed plants. Prerequisite: Bio 141-142. Class: 3 hours. Laboratory: 3 hours. Credit: 4 semester hours.

**347—Genetics.** General principles of heredity, including human inheritance. Prerequisite: Bio 141-142. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours.

**441—Parasitology.** Study of animal parasites including morphology, life history, and host-parasite relationships. Special emphasis on helminthic parasites of man and other vertebrates. Prerequisite: Bio 141-2; Class: 3 hours. Laboratory: 3 hours. Credit: 4 semester hours.

**531—Seminar in Biological Sciences.** Designed to enhance the biological science background of non-science majors. Relevant biological concepts, library research and synoptic reports, lectures by staff on special topics.

534—**Herpetology.** Natural history, taxonomy and ecology of amphibians and reptiles. Lecture: 2 hours. Laboratory: 3 hours. Credit: 3 semester hours.

536—**Mammalogy.** Natural history, taxonomy and ecology of mammals. Lecture: 2 hours. Laboratory: 3 hours. Credit: 3 semester hours.

## DEPARTMENT OF CHEMISTRY

### Chemistry (Chm)

141—**General.** General principles, problems, fundamental laws and theories. Class: 3 hours. Laboratory: 3 hours. Credit: 4 semester hours.

142—**General.** A continuation of Chem 141. Elementary qualitative analysis and theories of solutions and equilibrium. Properties of the elements. Prerequisite: Chm 141. Class: 3 hours. Laboratory: 3 hours. Credit: 4 semester hours.

143—**Introductory.** For non-science majors. A survey course in elementary chemistry. Lecture and laboratory work in inorganic chemistry. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours.

144—**Introductory.** For non-science majors. Continuation of Chem 143. A brief survey of qualitative analysis, elementary organic and physiological chemistry. Prerequisite: Chm 143 or 141. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours.

241—**Quantitative Analysis.** Theory and practice of analytical chemistry, utilizing gravimetric and titrimetric techniques. Prerequisite: Chm 142, Mth 133, 134, with a grade of C or better in each. Class: 3 hours. Laboratory: 5 hours. Credit: 4 semester hours.

333—**Inorganic.** Generalizations involving atomic and nuclear theory. Properties of the elements, with emphasis on similarities and differences within and between groups and transitional series. Non-aqueous solvents, acids, bases, oxidation-reduction, etc. Prerequisite: Chm 142, with grade of C or better. Class: 3 hours. Credit: 3 semester hours.

341—**Organic.** Current theories and chemical principles that relate to the field of organic chemistry. Prerequisite: Chm 142 with grade of C or better. Class: 3 hours. Laboratory: 4 hours. Credit: 4 semester hours.

342—**Organic.** A continuation of Chm: 341. Prerequisite: Chm 341. Class: 3 hours. Laboratory: 4 hours. Credit: 4 semester hours.

431—**Physical.** Thermodynamic principles; modern chemical theory as applied to gases, liquids and solids. Prerequisites: Chm 142, Phy 142 or 241, Mth 232 (or parallel). Class: 3 hours. Credit: 3 semester hours.

432—**Physical.** A continuation of Chm 431. Prerequisite: Chm 431. Class: 3 hours. Credit: 3 semester hours.

## DEPARTMENT OF GEOLOGY

### Geology (Geo)

141—**Physical Geology.** Earth materials, structure, land forms, mineral resources, and the processes which have formed them. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours.

142—**Historical Geology.** History of the earth and its life. Prerequisite: Geo 141. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours.

237—**Physical Geography.** The fundamental concepts of local, regional, and global geography. Prerequisite: sophomore standing. Class: 3 hours. Credit: 3 semester hours.

335—**Earth Materials.** The identification, classification, occurrence, and economic significance of minerals and rocks. Field trip required. A student may not receive credit for both Geo 335 and Geo 241-242. Prerequisite: Geo 141, Geo 237, or Geo 239. Class: 3 hours. Credit: 3 semester hours.

360—**Summer Field Course.** Description of stratigraphic sections, preparation of geologic maps and field reports. Duration: 6 weeks. Total cost: \$200-\$300. Prerequisites: Geo 342 and Egr 121. Class: 5 hours. Laboratory: 40 hours. Credit: 6 semester hours.

## DEPARTMENT OF PHYSICS

### Physics (Phy)

141—**General Physics—Mechanics and Heat.** Designed for majors in the physical or natural sciences. Emphasis placed upon understanding and application of basic physical laws. Prerequisite: Credit for Mth 133 and 134. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours.

142—**General Physics—Sound, Light, Electricity & Magnetism.** A continuation of Phy 141. Prerequisite: Phy 141. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours.

241—**Introductory Physics—Heat, Electricity and Magnetism.** Emphasis is placed on derivations, units, and problem-solving. Prerequisite: Phy 140 or Egr 132 and credit for or registration in Mth 231. Class: 3 hours. Laboratory: 3 hours. Credit: 4 semester hours.

242—**Introductory Physics—Sound, Light, and Quanta.** Emphasis is placed on derivations, units, and problem-solving. Prerequisite: Phy 241. Class: 3 hours. Laboratory: 3 hours. Credit: 4 semester hours.

335—**Modern Physics.** Conservation laws; special relativity; quantum effects; atomic structure; X-rays; nuclear and solid state physics. Prerequisites: Phy 241-242 or Phy 141-142 and Mth 231. Class: 3 hours. Credit: 3 semester hours.

# School of Fine and Applied Arts

## DEPARTMENT OF COMMERCIAL ART

### Commercial Art (CA)

130—Appreciation of the Fine Arts. (Same as Spc 130 and MLt 130.) A survey course covering the areas of a. art, b. music, c. theatre. To be taught by representatives of the art, music and speech faculties. Class: 3 hours. Credit: 3 semester hours.

131, 132—Drawing and Painting: Sketching. Drawing with pencil, pen and brush to train the eye and hand in visual recording. These sketches will be developed into opaque watercolor paintings. Class and laboratory: 6 hours. Credit: 3 semester hours per course.

137, 138—The Language of Art. An introduction to the visual arts. An analysis of art form: Line, value, texture, volume, color and their application to the production of art. Class: 3 hours. Credit: 3 semester hours per course.

235, 236—Art Concepts. An explanation of art history in terms of form, subject matter, ideology, related to the cultural periods. How the great art of the past expressed its various attitudes. Class: 3 hours. Credit: 3 semester hours per course.

337, 338—Public School Art. Teaching devices, techniques and media used in the elementary and secondary schools are studied and used in the laboratory. Special attention is given to skills in correlating art with other subjects in the elementary and secondary fields. Class and laboratory: 6 hours. Credit: 3 semester hours.

437, 438—The Psychology of Art. An investigation into the nature of the creative individual and how it is expressed graphically. Class and laboratory: 6 hours. Credit: 3 semester hours per course.

439—Directed Individual Study. An individual student assignment course for juniors and seniors. Time to be arranged. Credit: 3 semester hours.

## DEPARTMENT OF SPEECH

### Speech (Spc)

130—Appreciation of the Fine Arts. (Same as M.Lit. 130 and Art 130). A survey course covering the areas of a. art, b. music, c. theatre. To be taught by representatives of the art, music, and speech faculties. Class: 3 hours. Credit: 3 semester hours.

## DEPARTMENT OF MUSIC

### Music Literature (MLt)

130—Appreciation of Fine Arts. (Same as Spc 130 and CA 130). A survey course covering the areas of a. art, b. music, c. theatre. To be taught by any representatives of the art, music, and speech faculties. Class: 3 hours. Credit: 3 semester hours.

331—Children's Music. Techniques and materials in teaching of music in the elementary school. The child's voice; rote singing, rhythmic; introduction of notation; creative music activities. Prerequisite: MTy 131 or equivalent. Class: 3 hours. Credit: 3 semester hours.

332—Children's Music. Techniques and materials in teaching of music in the upper elementary grades. Creative music, rhythmic activity, rote singing, reading of notation, and effective use of materials. Class: 3 hours. Credit: 3 semester hours.

### Music Theory (MTy)

131—Elements of Music. A study of scales, chords, musical terminology, signatures, sight singing and rhythms. Designed to prepare students for advanced study in music theory or to familiarize non-music majors with the meaning of musical notation and the harmonic, melodic, and rhythmic structure of music. Class: 3 hours. Credit: 3 semester hours.

132, 133—Elementary Harmony. Elementary keyboard and written harmony; sight singing; ear training. Prerequisite: MTy 131 or by advanced standing exam. Class: 5 hours. Credit: 3 semester hours.



**131—Fundamentals of Effective Speech.** Instruction in the theory of the voice, articulation, pronunciation, bodily activity, language, and the elements of speech preparation. Practice in the presentation of speeches and printed material with emphasis on the use of the fundamentals of speech production. Class: 3 hours. Credit: 3 semester hours.

**133—Voice and Phonetics.** Phonetic transcription, regional and foreign dialects, and application of phonetic study to speech correction. Class: 3 hours. Credit: 3 semester hours.

**134—Speech Correction: A Survey.** An introduction to the study of speech correction. A survey of the defects of speech with particular emphasis on articulation defects and voice problems. Class: 3 hours. Credit: 3 semester hours.

**239—Language for the Deaf.** Survey of systems of teaching language to the deaf; emphasis on language development in the nursery and pre-school age child. Class: 3 hours. Credit: 3 semester hours.

**331—Business and Professional Speech.** Application of the fundamentals of speech production to the needs of the professional man or woman. Practice in gathering and organizing material for speeches for special occasions. Emphasis is given to extemporaneous speaking, conferences and discussion group speaking, and report presentations. Class: 3 hours. Credit: 3 semester hours.

**333—Storytelling.** Study of stories for different ages of children; study of sources of stories; practice in adapting story material from various sources; building story-hour programs; practice in telling stories in laboratory and in nearby schools, hospitals, and homes; practice in writing stories for children. Class: 3 hours. Credit: 3 semester hours.

**336—Creative Dramatics.** Instruction in the methods of introducing creative dramatics into the elementary and junior high schools, and the presentation of projects related to the development of creative play-making in the home, community, and school. Class: 3 hours. Credit: 3 semester hours.

**339—Beginning Clinical Practice in Speech and Hearing Therapy.** Diagnostic and therapeutic procedures in speech and hearing therapy. One hour of clinical practice per week per credit hour. Credit: 3 semester hours.

**4321—Advanced Language for the Deaf.** Principles and techniques for systematic development of language from first through sixth grades. Class: 3 hours. Credit: 3 semester hours.

**437—Directing Secondary School Theatre Activities.** Principles involved in extracurricular theatre activities. Practical experience with workshop students constitutes a part of this course. (Offered in summer terms only.) Credit: 3 semester hours.

**438—Directing Secondary School Speech Activities.** Principles involved in extracurricular activities such as debate, extemporaneous speaking, radio and television. Practical experience with workshop students constitutes a part of this course. (Offered in summer terms only.) Credit: 3 semester hours.

## **COURSE OFFERINGS**

# DAY CLASSES

## Terms 1 and 2

COURSE NO.	COURSE TITLE	TERM(S) OFFERED	SEM. HRS. CREDIT
ACCOUNTING			
231	Principles . . . . .	1 . . . . .	3
232	Principles . . . . .	2 . . . . .	3
331	Intermediate . . . . .	1 . . . . .	3
332	Intermediate . . . . .	2 . . . . .	3
334	Cost Accounting . . . . .	1 . . . . .	3
431	Advanced . . . . .	1 . . . . .	3
432	Advanced . . . . .	2 . . . . .	3
ANTHROPOLOGY			
231	Introduction to Anthropology . . . . .	1 . . . . .	3
331	Culture and Personality . . . . .	1 . . . . .	3
BIBLE			
111	Acts of the Apostles . . . . .	2 . . . . .	1
132	The New Testament . . . . .	2 . . . . .	3
BIOLOGY			
141	General Biology . . . . .	1 . . . . .	4
142	General Biology . . . . .	2 . . . . .	4
240	Comparative Anatomy . . . . .	1 . . . . .	4
243	Microbiology . . . . .	1 . . . . .	4
244	Microbiology . . . . .	2 . . . . .	4
245	Microbiology for Nurses . . . . .	1 . . . . .	4
345	Botony . . . . .	2 . . . . .	4
347	Genetics . . . . .	1 . . . . .	4
441	Parasitology . . . . .	2 . . . . .	4
531	Seminar in Biological Sciences . . . . .	1 . . . . .	3
534	Herpetology . . . . .	1 . . . . .	3
536	Mammalogy . . . . .	2 . . . . .	3
BUSINESS ADMINISTRATION			
220	Computer Programming . . . . .	1 & 2 . . . . .	2
331	Business Law . . . . .	2 . . . . .	3
332	Principles of Finance . . . . .	1 . . . . .	3
333	Insurance . . . . .	1 . . . . .	3
334	Principles of Marketing . . . . .	1 & 2 . . . . .	3
335	Principles of Management . . . . .	2 . . . . .	3
336	Personnel . . . . .	1 . . . . .	3
337	Principles of Selling . . . . .	2 . . . . .	3
338	Retailing . . . . .	2 . . . . .	3
3311	Labor Law . . . . .	2 . . . . .	3
431	Statistics . . . . .	1 . . . . .	3
432	Statistics . . . . .	2 . . . . .	3
433	Advertising . . . . .	2 . . . . .	3
435	Human Relations . . . . .	2 . . . . .	3
4311	Sales Management . . . . .	1 . . . . .	3
4312	Marketing Problems . . . . .	1 . . . . .	3
4314	Administrative Policy . . . . .	2 . . . . .	3
538	Business Problems & Organization . . . . .	2 . . . . .	3
539	Quantitative Analysis . . . . .	1 . . . . .	3

CHEMICAL ENGINEERING			
332	Chemical Process Principles III . . . . .	2 . . . . .	3
333	Thermodynamics II . . . . .	2 . . . . .	3
342	Chemical Process Principles I . . . . .	1 . . . . .	4
CHEMISTRY			
141	General . . . . .	1 . . . . .	4
142	General . . . . .	2 . . . . .	4
143	Introductory . . . . .	1 . . . . .	4
144	Introductory . . . . .	2 . . . . .	4
241	Quantitative Analysis . . . . .	2 . . . . .	4
333	Inorganic . . . . .	1 . . . . .	3
341	Organic . . . . .	1 . . . . .	4
342	Organic . . . . .	2 . . . . .	4
431	Physical . . . . .	1 . . . . .	3
432	Physical . . . . .	2 . . . . .	3
COMMERCIAL ART			
130	Appreciation of Fine Arts . . . . .	1 & 2 . . . . .	3
131	Sketching . . . . .	1 . . . . .	3
132	Sketching . . . . .	2 . . . . .	3
137	Language of Art. . . . .	1 . . . . .	3
138	Language of Art. . . . .	2 . . . . .	3
235	Art Concepts . . . . .	1 . . . . .	3
236	Art Concepts . . . . .	2 . . . . .	3
337	Public School Art . . . . .	1 & 2 . . . . .	3
338	Public School Art . . . . .	2 . . . . .	3
437	Psychology of Art . . . . .	1 . . . . .	3
438	Psychology of Art . . . . .	2 . . . . .	3
439	Directed Individual Study . . . . .	1 & 2 . . . . .	3
ECONOMICS			
231	Principles . . . . .	1 . . . . .	3
232	Principles . . . . .	2 . . . . .	3
233	Principles . . . . .	1 . . . . .	3
339	Economics of the Firm . . . . .	2 . . . . .	3
432	Money & Banking . . . . .	1 . . . . .	3
437	Intermediate Theory . . . . .	1 . . . . .	3
438	Macro Economics . . . . .	1 . . . . .	3
EDUCATION			
330	Teaching Media and Programed Inst. . . . .	1 . . . . .	3
331	Foundations in Education . . . . .	1 & 2 . . . . .	3
332	Educational Psychology . . . . .	1 & 2 . . . . .	3
333	Language Arts in Elem. Schools . . . . .	1 & 2 . . . . .	3
334	Child Development & Evaluation . . . . .	1 & 2 . . . . .	3
335	Arithmetic in Elem. Schools . . . . .	1 & 2 . . . . .	3
338	Curriculum, Materials & Eval, Sec. Schools . . . . .	1 & 2 . . . . .	3
339	Reading in the Elem. Schools . . . . .	1 & 2 . . . . .	3
3301	Survey in Edu. of Except. Child . . . . .	1 & 2 . . . . .	3
3311	Nature and Needs of Mentally Retarded . . . . .	1 . . . . .	3
3312	Edu. of Orthopedically Handicapped . . . . .	2 . . . . .	3
430	Edu. of the Mentally Retarded . . . . .	1 . . . . .	3
431	Psychology of Exceptional Child . . . . .	1 . . . . .	3
433	Corrective Reading . . . . .	1 . . . . .	3
434	Classroom Mgt. -Elementary . . . . .	1 & 2 . . . . .	3
437	Science & Social Studies-Elementary . . . . .	1 & 2 . . . . .	3
438	Classroom Mgt. - Secondary . . . . .	1 & 2 . . . . .	3

439	Nature & Needs Neuro. Impaired	2	3
4337	Tests & Measurements	1	3
530	Structure & Organ. Public Education	1	3
531	Research in Elementary Education	1 & 2	3
532	Current Issues in Education	2	3
535	Advanced Educational Psychology	2	3
537	The Elementary School Curriculum	1	3
538	Prob. in Teaching Arithmetic and Science	1	3
539	Developmental Reading	2	3
5301	Current Literature for Child and Adol.	1	3
5315	Problems and Issues in Special Education	2	3
5317	Secondary School Curriculum	2	3
5319	Problems in Secondary School Instruction	1	3
669A&B	Thesis	1 & 2	6

#### ELECTRICAL ENGINEERING

317	Junior E. E. Laboratory	1	1
331	Circuits I	1	3
332	Circuits II	2	3
335	Energy Conversion I	1	3
336	Energy Conversion II	2	3

#### ENGINEERING

132	Mechanics I	1	3
231	Mechanics II	1	3
232	Mechanics III	2	3
233	Electric Circuits	1	3
333	Electronics	2	3

#### ENGLISH

131	Composition	1 & 2	3
132	Composition	1 & 2	3
138	Survey of Journalism	1	3
231	Survey British Literature	1 & 2	3
232	Survey British Literature	1 & 2	3
331	Survey American Literature	1	3
332	Survey American Literature	2	3
334	Advanced Grammar	1	3
336	The Short Story	2	3
430	History English Language	2	3
434	Shakespeare	1	3
4313	American Literary Renaissance	1	3
530	Bibliography	1	3
532	Middle English	1	3
536	Studies, 18th Century Literature	2	3
537	Studies, 19th Century Literature	2	3

#### FRENCH

131	First Year French	1	3
132	First Year French	2	3
231	Reading, Composition, Conversation	1	3
232	Reading, Composition, Conversation	2	3
235	French Conversation	1	3

#### GEOGRAPHY

230	Introduction to Geography	1	3
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GEOLOGY			
141	Physical Geology . . . . .	1 . . . . .	4
142	Historical Geology . . . . .	2 . . . . .	4
237	Physical Geography . . . . .	2 . . . . .	3
335	Earth Materials . . . . .	1 . . . . .	3
360	Field Geology . . . . .	1 . . . . .	6
GERMAN			
131	First Year German . . . . .	1 . . . . .	3
132	First Year German . . . . .	2 . . . . .	3
231	Reading, Composition, Conversation . . . . .	1 . . . . .	3
232	Reading, Composition, Conversation . . . . .	2 . . . . .	3
GOVERNMENT			
231	American Constitutional System . . . . .	1 & 2 . . . . .	3
232	American and State Government Organ . . . . .	1 & 2 . . . . .	3
337	Politics of American Foreign Policy . . . . .	1 . . . . .	3
3318	Far Eastern Government Politics . . . . .	2 . . . . .	3
433	Political Thought III . . . . .	1 . . . . .	3
439	Comparative Public Administration . . . . .	2 . . . . .	3
HISTORY			
131	History of World Civ . . . . .	1 & 2 . . . . .	3
132	History of World Civ . . . . .	1 & 2 . . . . .	3
231	History of United States . . . . .	1 & 2 . . . . .	3
232	History of United States . . . . .	1 & 2 . . . . .	3
431	Old Regime . . . . .	1 . . . . .	3
432	French Revolution and Napoleon . . . . .	2 . . . . .	3
4311	Colonial America . . . . .	1 . . . . .	3
4313	Age of Jackson . . . . .	2 . . . . .	3
4314	American Civil War . . . . .	1 . . . . .	3
4318	Classical Civilization . . . . .	2 . . . . .	3
4328	Contemporary America . . . . .	1 . . . . .	3
532	Readings: The Negro in U. S. . . . .	1 . . . . .	3
536	Seminar: Old South . . . . .	2 . . . . .	3
669A&B	Thesis . . . . .	1 & 2 . . . . .	6
HOME ECONOMICS			
235	Meal Management . . . . .	1 . . . . .	3
330	Consumer Economics . . . . .	2 . . . . .	3
332	Nutrition . . . . .	1 . . . . .	3
338	Phil. and Prin. Voc. HE . . . . .	1 . . . . .	3
438	Teaching, Methods and Materials . . . . .	2 . . . . .	3
444	Home Management . . . . .	1 . . . . .	4
INDUSTRIAL ENGINEERING			
339	Manufacturing Processes . . . . .	1 . . . . .	3
MATHEMATICS			
131	Finite I . . . . .	1 & 2 . . . . .	3
132	Finite II . . . . .	1 & 2 . . . . .	3
133	Analytical Trigonometry . . . . .	1 & 2 . . . . .	3
134	College Algebra . . . . .	1 & 2 . . . . .	3
135	Contemporary Mathematics I . . . . .	1 . . . . .	3
136	Contemporary Mathematics II . . . . .	2 . . . . .	3
137	Contemporary Mathematics III . . . . .	2 . . . . .	3
1381	Analytic Geometry . . . . .	1 & 2 . . . . .	3

1391	Calculus I . . . . .	1 & 2	3
233	Linear Algebra . . . . .	1	3
234	Probability and Statistics . . . . .	2	3
2311	Calculus II . . . . .	1 & 2	3
2321	Calculus III . . . . .	1 & 2	3
331	Differential Equations . . . . .	1	3
338	Advanced Calculus . . . . .	1	3
339	Advanced Calculus . . . . .	2	3
3301	Introduction to Data Processing . . . . .	1	3
431	Intro. Functions Complex Variable . . . . .	1	3
432	Intro. Functions Complex Variable . . . . .	2	3
4312	Adv. Data Processing . . . . .	2	3
533	Calculus of Variations . . . . .	2	3
539	Infinite Series . . . . .	1	3
5311	Foundations of Geometry . . . . .	2	3
5312	Linear Algebra . . . . .	1	3

MECHANICAL ENGINEERING

331	Transport Theory I . . . . .	1	3
435	Turbomachinery . . . . .	1	3
4313	Transport Theory II . . . . .	2	3

MUSIC

	Applied: Voice, Piano and All Inst. . . . .	1 & 2	2
130	Appreciation of Fine Arts . . . . .	1 & 2	3
131	Elements of Music . . . . .	1 & 2	3
132	Elementary Harmony . . . . .	1	3
133	Elementary Harmony . . . . .	1	3
331	Children's Music . . . . .	1	3
332	Children's Music . . . . .	1	3

PHILOSOPHY

131	Introduction to Philosophy . . . . .	1 & 2	3
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PHYSICAL EDUCATION - MEN

111M	Physical Fitness . . . . .	1	1
112M	Activity . . . . .	2	1
211M	Activity . . . . .	1	1
212M	Activity . . . . .	2	2
227M	Beginning Swimming . . . . .	1 & 2	2
228M	Life Saving . . . . .	1 & 2	2
229M	Water Safety Instructor . . . . .	1	2
233	Elementary Games . . . . .	1 & 2	3
320	First Aid and Safety . . . . .	1	2
334	Driver Education . . . . .	1	3
416	Student Teach. in Driver Education . . . . .	2	1
430	Special Problems in HPE . . . . .	1 & 2	3
431	Recreational Leadership . . . . .	2	3
435	Adapted Physical Education . . . . .	1	3
531	Cultural Found. of Physical Ed. & Adm. . . . .	1	3
534	Scientific Basis of Exercise . . . . .	1	3
5301	Graduate Institute in HPE . . . . .	2	3
669A&B	Thesis . . . . .	1 & 2	3

PHYSICAL EDUCATION - WOMEN

111W	Tennis (Activity) . . . . .	1	1
112W	Beginning Ballet (Activity) . . . . .	1	1
113W	Beginning Swimming . . . . .	1 & 2	1

114W	Intermediate Swimming . . . . .	1 & 2 . . . . .	1
115W	Life Saving . . . . .	1 & 2 . . . . .	1
212W	Golf (Activity) . . . . .	2 . . . . .	1
212W	Ballet (Activity) . . . . .	1 . . . . .	1
229	Water Safety Instructor Course . . . . .	2 . . . . .	2
335	Phy. Edu. Recreation for Atypical Child . . . . .	2 . . . . .	3
338	Health Education in Elementary School . . . . .	1 . . . . .	3
4101	Workshop in Student Discipline . . . . .	2 . . . . .	1
4201	Workshop in Creative Coaching of Tennis . . . . .	2 . . . . .	2
430	Problems in HPE . . . . .	2 . . . . .	3
531	Cultural Found. of Phy. Edu. . . . .	1 . . . . .	3
535	Trends & Issues in Health & Physical Education . . . . .	2 . . . . .	3
669A&B	Thesis . . . . .	1 & 2 . . . . .	6

PHYSICS

141	General Physics . . . . .	1 . . . . .	4
142	General Physics . . . . .	2 . . . . .	4
241	Intro - Heat, Elect, Mgtsm . . . . .	1 . . . . .	4
242	Intro - Sound, Light, Quanta . . . . .	2 . . . . .	4
335	Modern Physics . . . . .	2 . . . . .	3
530	Seminar in Physical Science . . . . .	1 . . . . .	3

PSYCHOLOGY

131	Human Behavior. . . . .	1 & 2 . . . . .	3
231	General Psychology . . . . .	1 . . . . .	3
232	Statistics . . . . .	1 & 2 . . . . .	3
234	Child Psychology . . . . .	1 & 2 . . . . .	3
235	Adolescent Psychology . . . . .	1 . . . . .	3
332	Personality . . . . .	1 . . . . .	3
334	Industrial Psychology . . . . .	1 . . . . .	3
337	Adjustment . . . . .	2 . . . . .	3

SECRETARIAL SCIENCE

135	Records . . . . .	1 . . . . .	3
231	Secretarial Practice . . . . .	1 . . . . .	3
331	Office Procedures . . . . .	1 . . . . .	3
332	Dictation and Transcription . . . . .	1 . . . . .	3
344	Business Communications . . . . .	1 & 2 . . . . .	4

SOCIOLOGY

131	Introduction to Sociology . . . . .	1 & 2 . . . . .	3
132	Social Problems . . . . .	2 . . . . .	3
233	Marriage . . . . .	1 . . . . .	3
331	Field of Social Welfare . . . . .	1 . . . . .	3
332	Social Psychology . . . . .	1 . . . . .	3
333	Urban Sociology . . . . .	2 . . . . .	3
334	Industrial Sociology . . . . .	1 . . . . .	3
335	The Family . . . . .	1 . . . . .	3
336	Race Relations . . . . .	2 . . . . .	3
338	Criminology . . . . .	2 . . . . .	3
339	Juvenile Delinquency . . . . .	2 . . . . .	3
436	Social Movements . . . . .	2 . . . . .	3

SPANISH

131	First Year Spanish . . . . .	1 . . . . .	3
132	First Year Spanish . . . . .	2 . . . . .	3
231	Reading, Composition, Conversation . . . . .	1 . . . . .	3

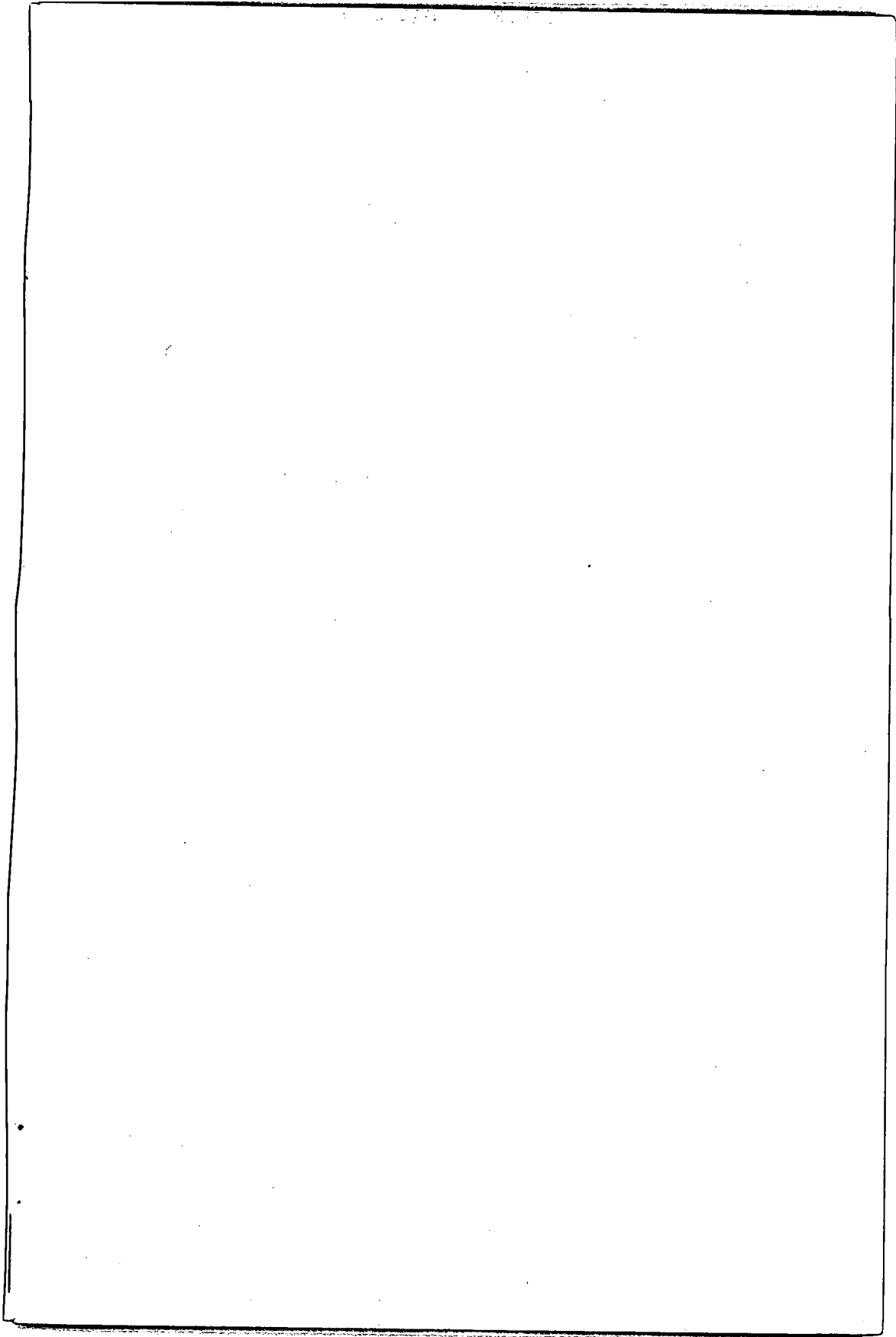


232	Reading, Composition, Conversation . . . . .	2 . . . . .	3
334	Intro. Spanish American Lit . . . . .	2 . . . . .	3
	SPEECH		
130	Appreciation of Fine Arts . . . . .	1 & 2 . . . . .	3
131	Fundamentals . . . . .	1 & 2 . . . . .	3
133	Voice and Phonetics . . . . .	1 . . . . .	3
134	Speech Correction - Survey . . . . .	2 . . . . .	3
239	Language for the Deaf . . . . .	1 . . . . .	3
331	Business and Professional Speech . . . . .	1 . . . . .	3
333	Storytelling . . . . .	1 & 2 . . . . .	3
336	Creative Dramatics . . . . .	2 . . . . .	3
339	Beg. Clinical Practice . . . . .	1 . . . . .	3
437	Directing Secondary School Theatre . . . . .	1 . . . . .	3
438	Directing Secondary School Speech . . . . .	1 . . . . .	3
4321	Adv. Language for the Deaf . . . . .	1 . . . . .	3
530	Seminar in Speech Pathology . . . . .	1 . . . . .	3
533	Disorders of Communication: Clinical Mang. . . . .	2 . . . . .	3
5324	Science of Sound . . . . .	1 . . . . .	3

# EVENING CLASSES

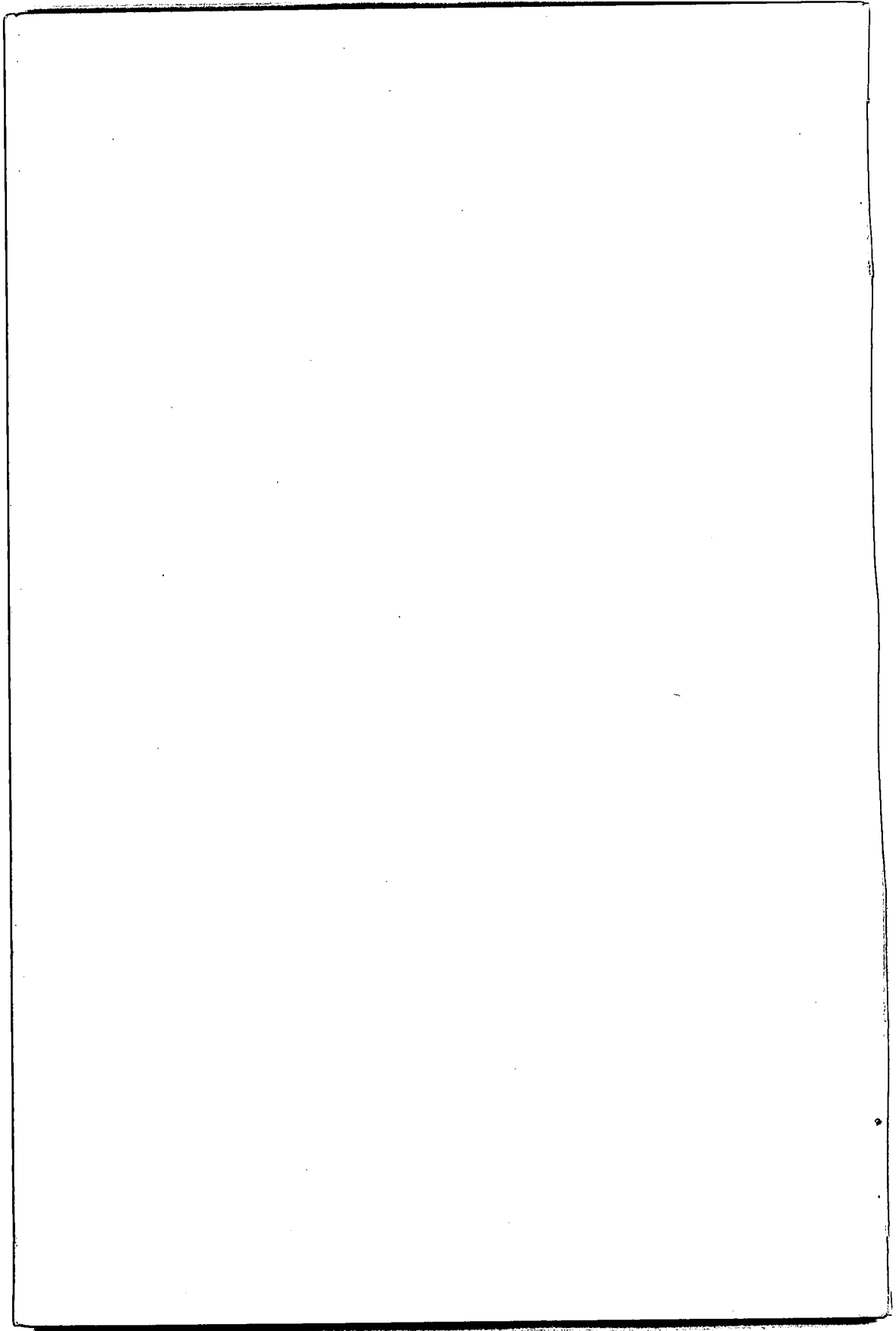
## Terms 1 and 2

COURSE NO.	COURSE TITLE	TERM(S) OFFERED	SEM. HRS. CREDIT
BUSINESS ADMINISTRATION			
335	Principles of Management . . . . .	1 . . . . .	3
336	Personnel . . . . .	2 . . . . .	3
ECONOMICS			
231	Principles . . . . .	1 . . . . .	3
232	Principles . . . . .	2 . . . . .	3
533	Contemporary Literature & Thought . . . . .	2 . . . . .	3
EDUCATION			
331	Foundations in Education . . . . .	1 . . . . .	3
ENGLISH			
131	Composition . . . . .	1 & 2 . . . . .	3
132	Composition . . . . .	1 & 2 . . . . .	3
231	Survey British Literature . . . . .	1 . . . . .	3
232	Survey British Literature . . . . .	2 . . . . .	3
GOVERNMENT			
231	Am. Constitutional System . . . . .	1 . . . . .	3
232	Am. and State Govt. Organization . . . . .	2 . . . . .	3
HISTORY			
231	History of United States . . . . .	1 . . . . .	3
232	History of United States . . . . .	2 . . . . .	3









## HOW TO ENTER LAMAR

### If You Have Graduated from High School

1. Submit application for admission on the official form.
2. Submit a completed Health Data Form properly executed by a physician. This requirement applies only to students entering DAY CLASSES for the first time.
3. Request that Lamar Tech be sent a copy of your record as soon as 7 semesters have been completed. Immediately after graduation a supplementary transcript covering the last semester of work and certifying your graduation should be supplied.
4. Take the Scholastic Aptitude Test of the College Entrance Examination Board and have a record of the test scores sent to the college admissions office. A minimum combined (verbal and mathematics) score of 700 is required of residents of the State of Texas. Non-residents must total 900 on the SAT and must rank in the upper three-fourths of their graduating class.
5. If you do not plan to live at home send your dormitory deposit (\$20.00) with request for space to Student Affairs Office, Lamar State College,

### If You are Transferring from Another College

1. Submit application on the official form.
2. Submit the Health Data Form properly executed by a physician. This requirement applies to students entering DAY CLASSES for the first time.
3. Submit transcripts from EACH college previously attended. This requirement applies regardless of whether credit was earned or is desired. Make sure transcripts are sent under your present name.
4. Submit SAT scores if less than 18 transferable semester hours have been earned. A total score (verbal and mathematics) of 700 is required of residents of the State of Texas. Non-residents with less than 18 hours of transferable work must meet the same requirements of high school graduates classified as out-of-state students.
5. If you do not plan to live at home send your dormitory deposit (\$20.00) with request for space to Student Affairs Office, Lamar State College, Lamar Tech Station, Box 10041, Beaumont, Texas 77705.

### If You are Applying as a Transient for Summer Work Only

1. Submit application for Admission. Admission as a transient student is limited to students who were enrolled at another college during the spring semester immediately prior to the summer session for which admission is requested.

