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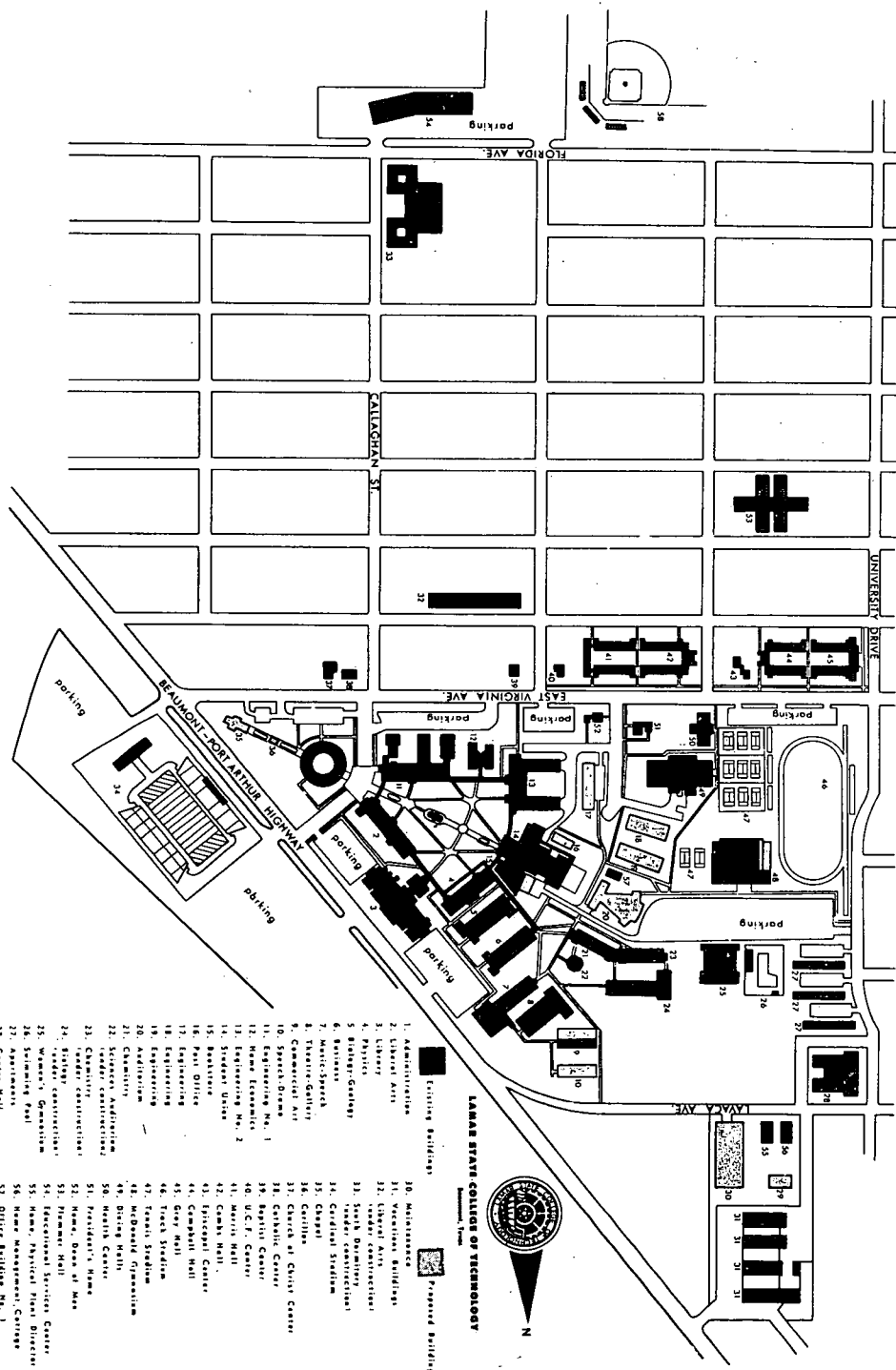
**SUMMER SESSION**

**BULLETIN**



**Lamar State College of Technology**

**Beaumont, Texas**



LAMAR STATE COLLEGE OF TECHNOLOGY

Existing Buildings

- 1. Administration
- 2. Liberal Arts
- 3. Library
- 4. Physics
- 5. Biology/Geology
- 6. Mathematics
- 7. Theater/Dance
- 8. Chemical Arts
- 9. Speech/Drama
- 10. Engineering No. 1
- 11. Home Economics
- 12. Engineering No. 2
- 13. Student Union
- 14. Bookstore
- 15. Post Office
- 16. Post Office
- 17. Engineering
- 18. Engineering
- 19. Engineering
- 20. Engineering
- 21. Chemistry
- 22. Science Auditorium
- 23. Under construction
- 24. Chemistry
- 25. Under construction
- 26. Under construction
- 27. Women's Gymnasium
- 28. Swimming Pool
- 29. Apartments
- 30. Gentry Hall
- 31. Graduate-Masters

Proposed Buildings

- 32. Maintenance
- 33. Vegetation Buildings
- 34. Library
- 35. Under construction
- 36. Under construction
- 37. Under construction
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BULLETIN  
of  
LAMAR STATE COLLEGE OF TECHNOLOGY

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Vol. XVII

MAY, 1967

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

Announcements for Summer Session, 1967

First Term--June 5, 1967, through July 14, 1967

Second Term--July 17, 1967, through August 25, 1967

Lamar State College of Technology  
Beaumont, Texas

LAMAR STATE COLLEGE OF TECHNOLOGY

BOARD OF REGENTS

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G. A. WIMBERLY, B. S., Assistant to the President . . . . .  
Administration Building  
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Administration Building  
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Administration Building  
CELESTE KITCHEN, B. A., M. Ed., Registrar . . . . .  
Administration Building  
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Room 201, Student Union Building  
COL. WARD HOFFMAN, B. A., Dean of Men . . . . .  
Room 201, Student Union Building  
MRS. BESS NEAL GENTRY, B. S., M. Ed., Dean of Women . . . . .  
Room 201, Student Union Building  
JACK HILL, B. B. A., M. B. A., Director of Evening Classes . . . . .  
Room 100, Liberal Arts Building  
JOE B. THRASH, B. S., M. A., Director, Testing and Placement Center . . . . .  
Room 102, Liberal Arts Building

SCHOOLS

EDWIN S. HAYES, B. S., Ph. D., Dean, School of Sciences . . . . .  
Room 103, Biology-Geology Building  
PRESTON B. WILLIAMS, B. A., M. A., Ph. D., Dean, School of Liberal Arts . . . . .  
Room 112, Liberal Arts Building  
J. D. LANDES, B. S., M. S., Ph. D., Dean, School of Business . . . . .  
Room 103, Business Building  
W. RICHARD HARGROVE, B. S., M. Ed., Ed. D., Dean, School of Education . . . . .  
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  
FRANK A. THOMAS, JR., B. S., M. S., Ph. D., Dean, School of Engineering. . . . .  
Room 101, 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, 1967

First Term

June 4 Sunday . . . Limited operation of dormitories.  
June 5 Monday . . . Registration, 8 a. m.  
Registration--evening classes, 6 p. m.  
June 6 Tuesday . . . Classes begin 7 a. m.  
Late registration (penalty fee charged).  
Payment of fees is a part of registration.  
June 7 Wednesday . . . Last date for registration or for adding courses, 7 p. m.  
June 9 Friday . . . Fourth Class Day  
June 16 Friday . . . Last date for application for August graduation, 5 p. m.  
June 26 Monday . . . Last date for dropping courses or withdrawing without  
penalty, 7 p. m.  
July 13-14  
Thursday, Friday . . . First term finals  
July 15 Saturday . . . Last date for reporting term grades to Registrar's office.  
noon

Second Term

July 17 Monday . . . Registration, 8 a. m.  
Registration--evening classes, 6 p. m.  
July 18 Tuesday . . . Classes begin, 7 a. m.  
Late registration (penalty fee charged).  
Payment of fees is a part of registration.  
July 19 Wednesday . . . Last date for registration or for adding courses, 7 p. m.  
July 21 Friday . . . Fourth Class Day  
Aug. 7 Monday . . . Last date for dropping courses or withdrawing without  
penalty, 7 p. m.  
Aug. 24-25  
Thursday, Friday . . . Second term finals  
Aug. 26 Saturday . . . Commencement, 9 a. m.  
Dining Hall and dormitories close, 10 a. m.  
Last date for reporting term grades to Registrar's office,  
8 a. m.

DIRECTORY FOR CORRESPONDENCE

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

- Academic Program . . . . . 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
- Business Affairs . . . . . H. C. Galloway, Comptroller
- Employment for Students . . . . . Joe B. Thrash, Placement Office
- Evening School . . . . . Jack Hill, Director
- Graduate School . . . . . M. L. McLaughlin, Dean
- School of Sciences . . . . . Edwin S. Hayes, Dean
- School of Liberal Arts . . . . . Preston B. Williams, Dean
- School of Business . . . . . J. D. Landes, Dean
- School of Education . . . . . W. Richard Hargrove, Dean
- School of Engineering . . . . . Frank A. Thomas, Jr., Dean
- School of Fine and Applied Arts . . . . . Ted Skinner, Dean
- School of Vocations . . . . . E. E. Miller, Director
- Housing, Dormitory Reservations . . . . . J. Paul Pederson, Student Life Office
- Library . . . . . Julia Plummer, Librarian
- Publications and Information . . . . . R. E. Oliver, Director
- Research Center . . . . . Lloyd B. Cherry, Director
- Scholarships . . . . . David Bost, Dean, Student Life
- Student Activities . . . . . Gene Peters, Director
- Student Health . . . . . Mrs. Ola Saunders, Health Center
- Student Loans . . . . . Brian Sumrall, Loan Officer
- Teacher Certification . . . . . Certification Officer, School of Education
- Tuition, Fees, Expenses . . . . . Business Office
- Veterans' Affairs . . . . . Joe B. Thrash, Placement Officer

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  
History  
Mathematics

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 125,000, Beaumont has modern schools, churches, and shopping districts to serve the thriving industrial community.

### 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 9,800 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 Engineering Council for Professional Development.



## 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.

#### 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 catalog. A copy of this catalog may be secured from the Dean of Admissions.

#### 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 catalogue. 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 catalogue should be followed.

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

#### 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 catalogue; and unless graduation was prior to 1960, to submit Scholastic Aptitude Test (SAT) scores which meet the minimum requirement. A total score of 700 (Verbal plus Math) on the SAT is required for admission to any regular semester but an applicant whose score falls below 700 may be admitted on a provisional basis to the summer session. In order for a provisionally admitted student to be eligible for re-admission to the fall semester, he must (1) attend both summer terms, (2) complete 12 semester hours (selected from English, history, mathematics, or science and must include English 131), (3) pass all courses taken, and (4) earn 12 grade points ("C" average).

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. SAT scores totaling at least 700 must be submitted if less than 18 semester hours of transferable work has been completed.

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.

#### 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 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 592, Princeton, New Jersey. A copy of the booklet should be secured EARLY so that a convenient test date and site can be selected. Application to take the test and test fees are sent to CEEB, not to this 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.

#### REGISTRATION

Applications for admission or re-admission to the first six-weeks term received after Friday, May 19, will be assigned a time to register at the end of the registration schedule. The same system will be followed for the second summer term for applications received after Friday, July 17.

Registration for the first term will be held on Monday, June 5, 1967, beginning at 8 a. m. Registration for evening classes will be on Monday, June 5, 1967, at 6 p. m. Classes begin on Tuesday, June 6.

Registration for the second summer session will begin at 8 a. m., Monday, July 17, 1967. Registration for evening classes will be on Monday, July 17, 1967, at 6 p. m. Classes begin on Tuesday, July 18.

### 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. 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 to the Dean of Student Life for disciplinary action. The Dean of Women or the Dean of Men will summon 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 Student Life.

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 Dean of Student Life. His office will notify the instructors involved of the student's illness or hospitalization.

For college-sponsored activities, the sponsor, coach, instructor, or supervisor submits to the Vice-President of Academic Affairs a list of participating students; and an absentee list is 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 26.

## FACILITIES

Located on a campus of approximately one hundred acres and valued in excess of \$20,000,000, the Lamar plant includes many new and functional buildings of modern design. These structures include: the Administration Building, Art Building, Biology-Geology Building, Bookstore, Business Building, Chemistry Building, Dining Hall, Educational Services Building, Engineering I, Engineering II, Health Center, Home Economics Building, Lamar Theatre, Liberal Arts Building, Library, Physics Building, McDonald Gymnasium, Cardinal Stadium, Music-Speech Building, Student Union, Vocations I, Vocations II, Vocations III, Vocations IV, and Women's Gymnasium. On-campus dormitories include Campbell Hall, Combs Hall, Gentry Hall, Gray Hall, Morris Hall, Plummer Hall, as well as three apartment buildings for married couples. Presently under construction are two new dormitories and a new Chemistry Building.

## HOUSING

The dormitory housing program is part of the overall 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 at Lamar State College of Technology are required to live in one of the college dormitories and take their meals in the college dining hall.

The only exceptions to this regulation are:

- (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.
- (4) Students for whom no housing is available when all dormitories have been filled. In such cases, these students will be permitted to live in which dormitory space becomes available.

The Assistant Dean of Student Life 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 residence address or a false statement that he is living with relatives will be subject to suspension.

Dormitories for both men and women are ultra-modern residence halls, each three stories high. Each floor houses 36 students, organized into units for purposes of self-government, intramural athletics, and social life. Students live in suites for six. Each suite consists of two large bedrooms, two study rooms, and bath. Each room has a dial telephone for inter-campus and Beaumont calls.

The Dining Hall serves three meals per day except on Sundays when only breakfast and lunch are served.

## RESERVATIONS

To reserve a room in the dormitories, direct a request to the Assistant to the Dean of Student Life, Lamar State College of Technology, Beaumont, Texas. A check for \$20 must accompany the reservation request. Room reservations must be cancelled with full refund until three weeks prior to the first day of classes. No refund will be made on cancellations received after this date. Dormitory residents will be refunded deposits, less any breaking charges, at the end of the year. 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.

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 Dean of Student Life 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 Hall, 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 1,000 periodicals, and over 100,000 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: 7:30 a. m. to 9:00 p. m. , Monday through Thursday; 7:30 a. m. to 5:00 p. m. , Friday. On Saturday, the hours are 9:00 a. m. to 1:00 p. m. ; Sunday, 2:00 p. m. to 5:00 p. m. The Library is closed on 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

### COUNSELORS

At registration each student is assigned a faculty counselor who is available for educational, vocational, and personal guidance. All students are expected to make appointments with counselors during each semester. Such arrangements are the responsibility of the student.

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

### TESTING AND PLACEMENT SERVICE

The Testing and Placement Center is located in Room 102 of the Liberal Arts Building 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.

### 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 Scholarships and Loans" which can be obtained on request to the Dean of Student Life, Lamar State College, Beaumont, Texas.



# 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

The Master of Arts degree is offered in the fields of English and history.

The Master of Business Administration is granted by the School of Business.

The Master of Science degree is available in the fields of chemistry and mathematics.

The Master of Engineering Science is offered in the School of Engineering and combines graduate work in engineering with courses in science and mathematics.

The Master of Education degree is available in Elementary Education, Secondary Education and Special Education.

For specific degree requirements, the student should consult the Graduate Bulletin.

## 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 State College of Technology, Beaumont, Texas.

FEEES AND EXPENSES

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

<u>RESIDENT STUDENTS</u>				
Semester Hours	Tuition	S. S. Fee	Bldg. Use Fee	Total
8	\$35.00	\$6.00	\$12.00	\$ 53.00 / Lab
7	31.00	6.00	6.00	49.00 / Lab
6	27.00	6.00	6.00	41.00 / Lab
5	23.00	6.00	6.00	37.00 / Lab
4	19.00	6.00	6.00	33.00 / Lab
3 or less	15.00	6.00	6.00	29.00 / Lab

<u>NON-RESIDENT STUDENT</u>				
8	\$133.00	\$6.00	\$12.00	\$151.00 / Lab
7	117.00	6.00	6.00	131.00 / Lab
6	100.00	6.00	6.00	114.00 / Lab
5	83.00	6.00	6.00	97.00 / Lab
4	66.00	6.00	6.00	80.00 / Lab
3 or less	50.00	6.00	6.00	64.00 / Lab

RESIDENCE AND DINING HALL FEES

Room and Board (Summer)	
Each six weeks . . . . .	\$128.00
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.

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.

# 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.

**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.

**333—Shakespeare.** Rapid reading of the histories, comedies, and tragedies. The development of Shakespeare as a dramatist; his relationship to the Elizabethan theater; his social, political, and literary background in the Tudor-Stuart era. 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.

**337—The Drama.** The historical development of the drama from Aeschylus to the present. Intensive study of selected plays. Class: 3 hours. Credit: 3 semester hours.

**3312—Introduction to Linguistics.** A survey of descriptive and historical linguistics intended to provide some understanding of the nature of language and linguistic change, of the current methods used in describing and comparing languages, and of the interaction of language and culture. Prerequisite: foreign language through 132. Class: 3 hours. Credit: 3 semester hours.

**436—Milton.** A study of Milton's poetry and prose against the social, political, and literary background of his time. Class: 3 hours. Credit: 3 semester hours.

**4314—The Development of American Realism: 1860-1900.** An intensive study of the major authors of the period from Whitman to Norris. Class: 3 hours. Credit: 3 semester hours.

438—**The Eighteenth Century.** The poetry and prose in England from the Restoration to the rise of Romanticism. Class: 3 hours. Credit: 3 semester hours.

4319—**Contemporary Fiction.** A study of prose fiction representative of modern ideas and trends, with emphasis on English and Continental authors. Class: 3 hours. Credit: 3 semester hours.

530—**Bibliography and Research Methods.** An introduction to graduate research methods and sources. Basic course for all beginning graduate students. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

535—**Studies in Renaissance and Seventeenth 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.

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.

538—**Studies in Twentieth Century 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.

669A-669B—**Thesis.** Prerequisite: admission to candidacy for the master's degree. Credit: 6 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.

331—Group Politics. Analysis and appraisal of the role of economic, social, and political groups in American politics; organization and techniques of political influence; the group struggle and resulting problems of public policy. 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.

434—Government Regulation of Economic Enterprise. Relationship of government to the economic system; causes, scope, and methods of administrative regulation; problems in government operations. 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.

332—Social and Intellectual History of the United States Since 1865. Life and thought in the United States since 1865. Class: 3 hours. Credit: 3 semester hours.

337—Diplomatic History of the United States. Historical development of American diplomacy. 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.

433—Russia and Eastern Europe to 1860. Russia, Poland, and the Balkans from the period of the Byzantine Empire to 1860. Class: 3 hours. Credit: 3 semester hours.

436—The American West. The American West from colonial times to the present. Class: 3 hours. Credit: 3 semester hours.

4316—World Power and Reform: The United States from 1898 to 1929. 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

4325—Tudor and Stuart England. England from 1485 to 1688. Class: 3 hours. Credit: 3 semester hours.

533—Readings in European History Before 1815. 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.

538—Seminar in Recent United States 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 recordings. Class: 3 hours. Credit: 3 semester hours per course.

132—First Year French. Reading, grammar, exercise in composition, conversation. Use of recordings. Prerequisite: French 131 or one year of high school French. Class: 3 hours. Credit: 3 semester hours.

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

##### German (Ger)

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

**132—First Year German.** Reading, grammar, conversation, exercises in composition. Use of recordings. Prerequisite: German 131 or one year of high school German. Class: 3 hours. Credit: 3 semester hours.

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

### Spanish (Spa)

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

**132—First Year Spanish.** Reading, grammar, conversation, exercises in composition. Use of recordings. Prerequisite: Spanish 131 or one year of high school Spanish. Class: 3 hours. Credit: 3 semester hours.

**231, 232—Reading, Composition, Conversation.** Prerequisite for Spanish 231: Spanish 132. 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)

**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.

**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.

**335—Motivation.** A study of contemporary concepts, theories, and research in motivation. Prerequisite: Psy 231. Class: 3 hours. Credit: 3 semester hours.

**432—Abnormal Psychology.** A study of abnormal behavior. Special emphasis on the symptomatology, etiology, and therapeutic approaches. Prerequisite: Psy 231. 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.

### Geography (Geg)

**230—World Geography.** Characteristics of major geographic regions; relationship of geographic environment to human society and culture. Class: 3 hours. Credit: 3 semester hours.

### Philosophy (Phl)

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

**232—Logic.** Nature and methods of correct reasoning; deductive and inductive proof; logical fallacies. Class: 3 hours. Credit: 3 semester hours.

**331—American Philosophy.** Major philosophies and philosophers of American society from the colonial period to the twentieth century. 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.

330—**American Society.** Description and analysis of structural and functional characteristics of American society and culture. 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.

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)

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.

133—**The Life and Teachings of Jesus.** A critical study of the Gospels, the person and work of Jesus of Nazareth. Class: 3 hours. Credit: 3 semester hours.

134—**The Life and Letters of St. Paul.** A study of the life and ministry of St. Paul and the major portion of the Pauline letters. Class: 3 hours. Credit: 3 semester hours.

# School of Sciences

## DEPARTMENT OF BIOLOGY

### Biology (Bio)

**141-142—General Biology.** First semester devoted to the anatomy and physiology of man. Laboratory phase includes the dissection of the frog as a vertebrate type, and an elementary study of vertebrate tissues. Reproduction, development, and heredity of animals; disease and immunity are studied during the first part of the second semester. The last part of the second semester is devoted to a survey of the animal and plant phyla, emphasizing the phylogenetic relationship of lower organisms, their natural history, and their bearing on human welfare. Either semester may be taken first, though the normal sequence is recommended. 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—Microbiology.** Micro-organisms with emphasis on bacteria in soil, water, milk, and sewage. Laboratory includes the isolation, cultivation, and identification of common bacteria. Recommended for biology majors, pre-medical, pre-dental, and medical technology students. Prerequisite: Bio 141-142. Class: 3 hours. Laboratory: 3 hours. Credit: 4 semester hours.

**244—Disease and Immunity.** Bacteria, rickettsiae and viruses in relation to disease. Theories of antigen-antibody responses. Laboratory includes the isolation, cultivation, and identification of pathogenic bacteria, and the immunization of laboratory animals. Prerequisite: Bio 243. Class: 3 hours. Laboratory: 3 hours. Credit: 4 semester hours.

**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.

**341—Histology and Histological Technique.** Study of normal tissues of vertebrates. Technique phase of the course includes fixation and staining of tissues, paraffin sections, conventional mounting. Designed for biology majors, pre-medical, pre-dental, and medical technology students. Prerequisite: Bio 141-142 and 240 or 243-244. 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.

**445—Marine Biology.** Natural history and ecology of fauna and flora in Gulf and estuarine waters. Recommended for biology majors. Prerequisites: Bio 141-2, 346. 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. 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.

**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. Credit: 6 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.

**427, 437, 447—Introduction to Research.** Junior and Senior chemistry students. Problems are on the under-graduate level and emphasize research techniques. With approval of the department head, these courses may be repeated for credit. Prerequisite: B average in all previous chemistry courses. Credit: 2, 3, or 4 semester hours.

## DEPARTMENT OF PHYSICS

### Physics (Phy)

**141—General Physics—Mechanics, Sound, 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—Electricity, Magnetism, Light and Modern Physics.** 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.

**414, 415—Experimental Projects.** Building of experimental apparatus under the supervision of a faculty member. Prerequisite: 6 hours of physics numbered above 300. Laboratory: 3 hours. Credit: 1 semester hour per course.

**430—Seminar in Physical Science.** Designed for non-science majors. Measurement, light, the solar system, and stars; force and motion, work and energy, heat, weather, lightning, electric charge and current, magnetism; batteries, atoms and molecules. Class: 3 hours. Credit: 3 semester hours.

# School of Business

## DEPARTMENT OF ACCOUNTING

**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)

**134—Introduction to Business.** Survey of the functional areas of busi-

ness and their interrelationships. Economics of industry; ownership and organization; marketing; production; personnel; finance; business controls. Class: 3 hours. Credit: 3 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.

**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.

**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.

**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.

**437—Investments.** An appraisal of investment, alternatives in financial markets. Markets; securities; methods of analysis; investment programming. 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; operations; turnover; inventory; store promotion; research. Class: 3 hours. Credit: 3 semester hours.

**4313—Job Evaluation and Wage Administration.** The analysis and evaluation of employment positions as used in salary and wage determination. Job analysis; job evaluation; wage surveys; wage programs; salary structure; controls. Class: 3 hours. Credit: 3 semester hours.

## DEPARTMENT OF ECONOMICS

**231—Principles.** Introduction to economic principles. Allocation of resources; determination of output and prices; distribution; and managerial economics. Class: 3 hours. Credit: 3 semester hours.

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

**336—Survey of Labor Economics.** Past development and present organizational structure of the labor movement in America and its impact on the industrial society. Labor market; collective bargaining; wages; economic insecurity; labor legislation; governmental policies. 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.

**4312—Seminar in Economics.** A seminar for non-majors with considerable emphasis placed on independent study and student research. Nature and scope of economics; structure and workings of the American economy; international economics; economic problems and issues. 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.

**436—Business Cycles.** The nature and causes of business cycles. Cyclical theories; business fluctuations; forecasting stabilization; current problems. Class: 3 hours. Credit: 3 semester hours.



**437—Intermediate Theory.** Economic analysis and methodology. Distribution; theory; price theory; imperfect competition and monopoly; national income analysis. 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.

## DEPARTMENT OF SECRETARIAL SCIENCE

### Secretarial Science (Sec)

**121—Typewriting (Short Course).** Introduction of the touch system on manual and electric machines. Simple letter forms; manuscripts; tabulations. Class: 1 hour. Laboratory: 2 hours. Credit: 2 semester hours.

**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.

**222—Production Typewriting.** Speed production of office-style material. Business forms; statistical tables; financial statements; legal documents; reports; correspondence. Class: 1 hour. Laboratory: 2 hours. Credit: 2 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 Sec 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.

# 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 and 332. 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.

**336—Children's Literature.** A survey covering the field of literature from the earliest writings for children to current books and magazines for juveniles. 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 and 332. 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 Orthopedically Handicapped.** Curriculum development, methods and materials; school programs for the orthopedically handicapped in regular and special classes, hospitals and home 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.

**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 434 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—Nature and Needs of the Neurologically Impaired.** Causes and effects; facilities, resources and reports, guidance, administration, and planning for both the child and his environment to meet his special needs. 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 systematic 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.

534—**Advanced Study in Human Development.** A study of the development and nature of the human personality, especially as it affects the teaching-learning process. 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.

536—**Problems in Teaching Language Arts and Social Studies.** Recent developments and trends with primary consideration given to individual teaching problems and individual research. 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: 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.

5318—**Research in Secondary Education.** Familiarity with significant research in secondary education. Emphasis on terminology, methodology, and spirit or systematic research. 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.

**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

**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.

**430M—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.

**431M—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 (Correctives).** 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.

**532—Seminar in Professional Literature and Research.** Designed to develop abilities in locating and evaluating literature and research in physical education and in allied fields. Prerequisite: graduate standing; HPE 336, or 438W, or equivalent. 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 equivalents. Class: 3 hours. Credit: 3 semester hours.

## PHYSICAL AND HEALTH EDUCATION FOR WOMEN

### Activity Courses for Women

**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.

### 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.

**331—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.



# School of Engineering

## Engineering (Egr)

**121—Engineering Graphics.** Principles of orthographic projection combined with descriptive geometry to solve space problems graphically. Lettering and drafting technique emphasized. Laboratory: 6 hours. Credit: 2 semester hours.

**122—Introduction to Digital Computers.** Interpretive routines and compilers are used. Problems are used to illustrate methods. Each student prepares programs for a digital computer. Prerequisite: Mth 138 or concurrent. Class: 1 hour. Laboratory: 3 hours. Credit: 2 semester hours.

**132—Mechanics I.** Utilizes vectors in the study of particle dynamics. Statics of particles and rigid bodies. Energy methods. Prerequisite: Egr 122 or concurrent; Mth 139 or concurrent. Class: 3 hours. Credit: 3 semester hours.

**221—Materials Science.** Basic principles underlying the behavior of solid, liquid and gaseous materials. Prerequisite: Mth 234 or concurrent; Phy 241; Chm 142. Class: 2 hours. Credit: 2 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; Mth 232 and 233 or concurrent. Class: 3 hours. Credit: 3 semester hours.

**234—Thermodynamics.** The fundamental laws of thermodynamics, Properties of systems, gases, vapors, thermodynamic tables, and cycles. Prerequisite: Chm 142; Phy 241; Mth 232 and Mth 234 or concurrent; Egr 122. Class: 3 hours. Credit: 3 semester hours.

**331, 332—Heat, Mass and Momentum Transfer.** Fluid dynamics, heat transfer and mass transfer. An integrated two semester sequence. Prerequisite: Egr 234; Mth 233 and 234. Class: 3 hours each semester. Credit: 3 semester hours each semester.

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

4101, 4201, 4301, 4401—Special Problems. An investigation into specialized areas of engineering under the guidance of a faculty member. This course may be repeated for credit when topics of investigation differ. Credit: 1-4 semester hours.

669A-669B—Thesis. Prerequisite: Admission to candidacy. Credit: 6 semester hours.

## DEPARTMENT OF CHEMICAL ENGINEERING

### Chemical Engineering (CHE)

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. 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.

## DEPARTMENT OF MECHANICAL ENGINEERING

### Mechanical Engineering (ME)

435—Turbomachinery. Flow problems encountered in the design of water, gas and steam turbines, centrifugal and axial-flow pumps and compressors. Prerequisite: Egr 332. Class: 3 hours. Credit: 3 semester hours.

## DEPARTMENT OF MATHEMATICS

### Mathematics (Mth)

131—Finite Mathematics I. Principles of mathematics, number bases, and coordinate geometry. Prerequisite: 2 units of high school mathematics. Class: 3 hours. Credit: 3 semester hours.

132—Finite Mathematics II. Symbolic logic, theory of sets, probability and statistics, theory of games, mathematical induction, and group theory. Class: 3 hours. Credit: 3 semester hours.

**133—Plane 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.** Determinants, binomial theorem, theory of equations, progressions, permutations, combinations and probability. 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.

**138—Analysis I.** Functions and graphs, slope, properties of limits, derivatives of algebraic functions and applications, integration. Class: 3 hours. Credit: 3 semester hours.

**139—Analysis II.** Applications of the definite integral, transcendental functions, methods of integration. Prerequisite: Analysis I. Class: 3 hours. Credit: 3 semester hours.

**231—Analysis III.** Plane analytic geometry, hyperbolic functions, polar coordinates, parametric equations, solid geometry, vectors. Prerequisite: Analysis II. Class: 3 hours. Credit: 3 semester hours.

**232—Analysis IV.** Partial differentiation, multiple integrals, infinite series, differential equations. Prerequisite: Analysis III. 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 and numerical methods. 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.

**4301, 4302—Advanced Calculus for Engineers.** Linear ordinary differential equations, the Laplace Transform, series solutions of differential equations, boundary-value problems, orthogonal functions, introduction to vector analysis and functions of a complex variable, partial differential equations of mathematical physics. Prerequisites: Mth 232. Class: 3 hours. Credit: 3 semester hours.

**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.

**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.

**669A-669B—Thesis.** Prerequisite: admission to candidacy for the master's degree. Credit: 6 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.

**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.

## 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.

### 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.

**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.

**231—Audiology.** Study of the human ear and its abnormalities. Administration and interpretation of hearing tests; clinical observation. 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.

**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.

**430—Problems and Projects in Speech.** These problems are discussed and analyzed through discussion and research. Each student selects a project or problem on which he does extensive research and presents a report to the department faculty. Class: 3 hours. Credit: 3 semester hours.

**431—Problems and Projects in Theatre.** Students will perform activities in one of the following areas: acting, directing, producing, designing

and constructing costumes and stage settings for the school theatres.  
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.) Class: 15 hours per week for 3 weeks, plus laboratory as arranged. Credit: 3 semester hours.

**438—Directing Secondary School Speech Activities.** Principles involved in extra-curricular 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.) Class: 15 hours per week for 3 weeks, plus laboratory as arranged. Credit: 3 hours.





## Schedule of Classes by Groups - 1967

### Registration

#### First Term

Registration--June 5  
 Classes Begin--June 6, 7:00 a.m.  
 Last Day for Registration or for Adding  
 Courses--June 7, 7:00 p.m.  
 Last Day for Dropping or for  
 Withdrawing--June 26, 7:00 p.m.

### Registration Time Schedule

#### First Term

#### DAY CLASSES - June 5, 1967

K-L	8:00- 8:30	A	11:00-11:30
M-Mc-N	8:30- 9:00	B	11:30-12:00
O-P-Q	9:00- 9:30	C-D	12:00-12:30
R-S	9:30-10:00	E-F	12:30- 1:00
T-U-V	10:00-10:30	G	1:00- 1:30
W-X-Y-Z	10:30-11:00	H-I-J	1:30- 2:00

### Final Examination Schedule

Group	Day	Time
A-- 7:00 a.m.- 8:20 a.m.	July 14	7- 9
B-- 8:30 a.m.- 9:50 a.m.	July 13	7- 9
C--10:00 a.m.-11:20 a.m.	July 13	10-12
D--11:30 a.m.-12:50 p.m.	July 14	10-12
E-- 1:00 p.m.- 2:20 p.m.	July 13	1- 3
F--(Time Arranged)	July 14	1- 3
G-- 6:00 p.m.- 8:00 p.m.	July 13	6- 8

Late Applicants 2:00 p. m.

#### EVENING CLASSES - June 5, 1967

A-Z 6:00-7:00 p. m.

Late Applicants 6:30 p. m.

## FIRST TERM

### GROUP A

(7:00 a.m.-8:20 a.m.)

BA 134- 1 Intro to Bus	118B Williams
BA 332- 1 Prin of Fin	115B Cherry
BIB 133- 1 Life Tech Jesus	BSU Wray
CA 131- 1 Sketching	200AB O'Neill
CA 337- 1 Public Schl Art	202AB Madden
CHM 241- 1 Quant Anal	102C Harmon
CHM 431- 1 Physical	110P Baker
ECO 436- 1 Cycles	201B Miller
EDU 331- 1 Found Edu	1ES Hybarger
EDU 334- 1 Curr Mat Elem	5ES Hogue
EDU 335- 1 Arith Meth	4ES Blackburn
EDU 531- 1 Research Elem	3ES Adams
EDU 535- 1 Adv Edu Psy	6ES Briggs
EE 331- 1 Circuits I	103E2 Carlin
EGR 132- 1 Mechanics I	134E1 Delflache
EGR 221- 1 Mat Science	111E2 Carruth
ENG 131- 1 Composition	206B
ENG 131- 2 Composition	105BG
ENG 131- 3 Composition	211B
ENG 131- 4 Composition	116B
ENG 131- 5 Composition	100MG
ENG 132- 1 Composition	213B
ENG 132- 2 Composition	214B
ENG 231- 1 Srvy Brit Lit	216B Yeats
ENG 231- 2 Srvy Brit Lit	115LA Allen
ENG 331- 1 Srvy Amer Lit	108LA Emmons
GER 131- 1 First Year Ger	103MS Lockhart
GOV 231- 1 Am Const	102B Stevens
GOV 231- 2 Am Const	104B Stephens
GOV 232- 1 Am St Gov Organ	105B Bedichek
HEC 338- 1 Phil Prin Voc	3H Anderson
HEC 438- 1 Tchg Mtds Mtls	8H Tannahill
HIS 131- 1 World History	118LA Gwin
HIS 231- 1 United States	107B Norton
HIS 231- 2 United States	111B Renberg
HIS 232- 1 United States	120LA Woodland
HPE 334M- 1 Driver Edu	107MG Tipton
MTH 131- 1 Finite Mth I	104C Wolkeau
MTH 132- 1 Finite Mth II	106C Dingle
MTH 134- 1 College Algebra	126E1 Staff
MTH 135- 1 Contemp Mth I	111BG Bell K
MTH 137- 1 Contemp Mth III	202BG Dement
MTH 138- 1 Analysis I	203BG Vanzant
MTH 232- 1 Analysis IV	213BG Baj
MTH 331- 1 Diff Equations	216BG Cowan
MTY 131- 1 Elements Music	101MS Balabanis

PSY 231- 1 General Psy	228P Breining
SOC 131- 1 Intro Soc	110LA Edwards
SOC 333- 1 Urgan Soc	102BG Ellis
SPC 131- 1 Fundamentals	105MS Meyer
SPC 131- 2 Fundamentals	107MS Jacob

### GROUP B

(8:30 a.m.-9:50 a.m.)

ACC 231- 1 Principles	115B Barlow
ACC 334- 1 Elem Cost	118B Galiiher
BA 431- 1 Statistics	111B Kirksey
BIO 141- 1 General Bio	101BG Harrel
BIO 245- 1 Nurses Micro	110BG Warren
CA 137- 1 Language of Art	100AB Boughton
CA 337- 2 Public Schl Art	202AB Lupfer
CA 437- 1 Psychol of Art	201AB Madden
CHM 143- 1 Introductory	102C Fields
ECO 4312- 1 Seminar	116B Parigi
ECO 437- 1 Inter Theory	201B Partin
EDU 332- 1 Edu Psy	5ES Rodgers
EDU 333- 1 Lang Arts Meth	1ES Permenter
EDU 431- 1 Psy Men Rtd.	2ES Gray
EDU 437- 1 Sci Soc St Meth	4ES Wilbanks
EDU 530- 1 Struc Pub Edu	3ES Self
EGR 232- 1 Mechanics III	111E2 Beale
EGR 234- 1 Thermodynamics	134E1 Delflache
ENG 131- 6 Composition	105BG
ENG 131- 7 Composition	108LA
ENG 131- 8 Composition	206B
ENG 132- 3 Composition	108BG
ENG 231- 3 Srvy Brit Lit	204B Olson
ENG 232- 1 Srvy Brit Lit	107B Bird
ENG 333- 1 Shakespeare	115LA Berly
ENG 3312- 1 Intro Linguistics	110P Blumenfeld
FRE 231- 1 Read Comp Conv	213B Moss
GOV 231- 3 Am Const	202B Dawson
GOV 231- 4 Am Const	107BG Stephens
GOV 232- 2 Am St Gov Organ	105B Fornell
GOV 434- 1 Gov Reg Econ	201BG Bedichek
HEC 332- 1 Nutrition	8H Harp
HIS 132- 1 World History	118LA Lambert
HIS 231- 3 United States	120LA Satterfield
HIS 232- 2 United States	211B Ware
HIS 4325- 1 Tudor Stuart Eng	102BG MacDonald
HIS 436- 1 American West	216B Isaac
HPE 111M- 1 Fr Act Phys Ft	MG Gunn
HPE 227M- 1 Swimming	Pool Jacob
HPE 227M- 2 Swimming	Pool Jacob



## First Term - continued

PSY 231- 2 General Psy	228P Cunningham	CHM 669B- 1 Thesis	Staff
PSY 232- 1 Intro Stat Meth	226P Bell	EDU 669A- 1 Thesis	Hargrove
SOC 131- 4 Intro Soc	104B Ingram	EDU 669B- 1 Thesis	Hargrove
SOC 233- 1 Marriage	110LA Cosneck	EGR 4101- 1 Special Prob	101E1 Thomas
SPA 231- 1 Read Comp Conv	214B Urbano	EGR 4201- 1 Special Prob	101E1 Thomas
SPC 131- 3 Fundamentals	107MS Anderson	EGR 4301- 1 Special Prob	101E1 Thomas
SPC 131- 4 Fundamentals	105MS Dorgan	EGR 4401- 1 Special Prob	101E1 Thomas
SS 331- 1 Sec Procedure	201B Darsey	EGR 669A- 1 Thesis	101E1 Thomas
		EGR 669B- 1 Thesis	101E1 Thomas
		ENG 669A- 1 Thesis	Staff
		ENG 669B- 1 Thesis	Staff
		GEO 360- 1 Field Camp	Field Davis
		HEC 444- 1 Home Manage	HMRes Daggett
		HIS 669A- 1 Thesis	Wooster
		HIS 669A- 2 Thesis	Wooster
		HIS 669B- 1 Thesis	Wooster
		HIS 669B- 2 Thesis	Wooster
		HPE 430M- 1 Problems HPE	106MG Higgins
		MTH 539- 1 Infinite Series	226P Stark
		MTH 669A- 1 Thesis	209E1 Stark
		MTH 669B- 1 Thesis	209E1 Stark
		PHY 414- 1 Exprmtl Project	Staff
		PHY 415- 1 Exprmtl Project	Staff
		SPC 430- 1 Prb & Proj Spc	206MS Skinner
		SPC 431- 1 Prb & Proj Thr	206MS Skinner

### GROUP E (1:00 p.m.-2:20 p.m.)

BA 335- 1 Industrial Mgmt	118B Steiert
BA 4312- 1 Marketing Prob	115B Staff
CHE 342- 1 Chn Proc Prin	134E1 Eisen
CHM 141- 1 General	102C Yerick
ECO 231- 2 Principles	201B Partin
EDU 331- 2 Found Edu	4ES Permenter
EDU 338- 1 Cur Mat Sec	1ES Massey
EDU 339- 1 Read Meth	6ES Harlan
EDU 539- 1 Dev Reading	3ES Salter
EGR 122- 1 Digital Comp	126E1 Mei
ENG 131-16 Composition	206B
ENG 131-17 Composition	107B
ENG 131-18 Composition	105BG
ENG 131-19 Composition	108LA
ENG 132- 7 Composition	116B
ENG 132- 8 Composition	204B
ENG 232- 3 Srvy Brit Lit	115LA Thomas
ENG 530- 1 Bib Research	201LA Frissell
GOV 231- 7 Am Const	104B Polinard
MTY 131- 4 Elements Music	101MS Brooks
SOC 132- 2 Socl Probs	105B Varnes

### GROUP F (Time Arranged)

BA 669A- 1 Thesis	Landes
BA 669B- 1 Thesis	Landes
CHM 669A- 1 Thesis	Staff

### GROUP G (6:00 p.m.-8:00 p.m.)

BA 4311- 1 Sales Mgmt	115B Staff
CHM 427- 1 Intro Res	Staff
CHM 437- 1 Intro Res	Staff
CHM 447- 1 Intro Res	Staff
ECO 231- 3 Principles	118B Allen
ECO 438- 1 Macro Eco	105B Miller
ENG 131-20 Composition	206B
ENG 132- 9 Composition	108LA
ENG 231- 6 Srvy Brit Lit	201B Jones
ENG 232- 4 Srvy Brit Lit	115LA Barkley
GOV 231- 8 Am Const	104B Polinard
HIS 231- 8 United States	102B Wooster

## Laboratories

BIO 141- 1 General Bio	7:00- 8:20 M-Th	113BG Harrel
BIO 141- 2 General Bio	8:30- 9:50 M-Th	113BG Runnels
BIO 141- 3 General Bio	10:00-11:20 M-Th	111BG Staff
BIO 141- 4 General Bio	10:00-11:20 M-Th	113BG Olson
BIO 141- 5 General Bio	11:30-12:50 M-Th	113BG Olson
BIO 240- 1 Vert Comp Anat	1:30- 4:20 M-Th	111BG Tanzer
BIO 243- 1 Microbiology	1:30- 4:20 MWF	110BG Fitzgerald
BIO 245- 1 Nurses Micro	10:00-11:20 MTTF	110BG Warren
BIO 341- 1 Histology	1:30- 4:20 MTT	110BG Long
BIO 445- 1 Marine Bio	1:30- 4:20 MTT	108BG Forbes
CHE 342- 1 Chm Proc Prin	2:30- 4:00 MTWT	156E1 Eisen
CHM 141- 1 General	2:30- 5:30 MWTh	215P Yerick
CHM 143- 1 Introductory	2:00- 5:00 TuF	215P Fields
CHM 241- 1 Quant Anal	8:30-11:30 M-F	204C Harmon
CHM 341- 1 Organic	1:00- 5:00 MWTh	210C Cameron
EE 317- 1 Jr EE Lab	1:00- 4:30 MW	E1E1 Bohrer
EE 318- 1 Jr EE Lab	1:00- 4:30 TT	E1E1 Bohrer
EGR 421- 1 Graphics	7:00-10:00	204E2 Henry
EGR 122- 1 Digital Comp	2:00- 5:00 MTuW	126E1 Mei
GEO 141- 1 Physical Geo	1:00- 4:00 MW	203BG Dean
GEO 141- 2 Physical Geo	1:00- 4:00 TT	203BG Pampe
HEC 235- 1 Meal Management	10:00-12:50 MF	16H Daggett
HEC 332- 1 Nutrition	10:00-11:20 MW	3H Harp
PHY 141- 1 Mech Snd Heat	11:30- 1:30 MTT	101P Biser
PHY 141- 2 Mech Snd Heat	1:30- 3:30 MTT	101P Peebles
PHY 241- 1 Int Heat El Mag	1:00- 4:00 MWTh	103P Pizzo
PHY 242- 1 Int Snd Lt Qua	1:00- 4:00 MWTh	105P Goines
SS 344- 1 Bus Commun	1:00- 2:00 M-F	202B Hall

## SECOND TERM

### Registration

Registration--July 17  
 Classes Begin--July 18, 7:00 a.m.  
 Last Day for Registration or for Adding  
 Courses--July 19, 7:00 p.m.  
 Last Day for Dropping or  
 Withdrawing--August 7, 7:00 p.m.

### Registration Time Schedule

DAY CLASSES - July 17, 1967

M-Mc-N	8:00- 8:30	B	11:00-11:30
O-P-Q	8:30- 9:00	C-D	11:30-12:00
R-S	9:00- 9:30	E-F	12:00-12:30
T-U-V	9:30-10:00	G	12:30- 1:00
W-X-Y-Z	10:00-10:30	H-I-J	1:00- 1:30
A	10:30-11:00	K-L	1:30- 2:00

Late Applicants 2:00 p. m.

### Final Examination Schedule

Group	Day	Time
A-- 7:00 a.m.- 8:20 a.m.	Aug. 25	7- 9
B-- 8:30 a.m.- 9:50 a.m.	Aug. 24	7- 9
C--10:00 a.m.-11:20 a.m.	Aug. 24	10-12
D--11:30 a.m.-12:50 p.m.	Aug. 25	10-12
E-- 1:00 p.m.- 2:20 p.m.	Aug. 24	1- 3
F--(Time Arranged)	Aug. 25	1- 3
G-- 6:00 p.m.- 8:00 p.m.	Aug. 24	6- 8

### EVENING CLASSES - July 17, 1967

A-Z 6:00-7:00 p.m.

Late Applicants 6:30 p. m.

#### GROUP A

(7:00 a.m.-8:20 a.m.)

BA 134- 1 Intro to Bus	111B Neil
BA 437- 1 Investments	115B Bennett
BIB 134- 1 Life Lttrs Paul	CCSC Wright
CA 132- 1 Sketching	200AB Newman
CA 337- 1 Public Schl Art	202AB Williams
CHE 333- 1 Thermodynamics	126E1 McAllister
CHM 432- 1 Physical	110P Baker
ECO 339- 1 Eco of the Firm	201B Pearson
EDU 334- 1 Cur Mat Elem	1ES Salter
EDU 437- 1 Sci Soc Stud Meth	4ES Wilbanks
EDU 5301- 1 Child Adol Lit	5ES Coody
EDU 5317- 1 Sec Sch Curr	3ES Massey
EE 332- 1 Circuits II	103E2 Cooke
EGR 331- 1 HMMT I	111E2 Greene
ENG 131- 1 Composition	204B
ENG 131- 2 Composition	105BG
ENG 132- 1 Composition	211B
ENG 132- 2 Composition	206B
ENG 132- 3 Composition	116B
ENG 232- 1 Srvy Brit Lit	107B Harvill
ENG 232- 2 Srvy Brit Lit	108LA Woods
ENG 332- 1 Srvy Amer Lit	115LA Meeks
GER 132- 1 First Year Ger	111BG Smith
GOV 231- 1 Am Const	104B Stephens
GOV 232- 1 Am St Gov Organ	105B Coffey
HIS 132- 1 World History	118LA Mackey
HIS 231- 1 United States	102BG Wooster
HIS 232- 1 United States	120LA Stiles
MTH 131- 1 Finite Mth I	104C Ford
MTH 132- 1 Finite Mth II	106C Dingle
MTH 133- 1 Trigonometry	134E1 Staff
MTH 134- 1 College Algebra	201BG Read B
MTH 139- 1 Analysis II	202BG Dement
MTH 232- 1 Analysis IV	110BG Cowan
SOC 132- 1 Socl Probs	102B Sheinberg
SOC 233- 1 Marriage	110LA Gibson
SPA 334- 1 Int Spa Amer Lit	103MS Hensley
SPC 131- 1 Fundamentals	107MS Campbell

#### GROUP B

(8:30 a.m.-9:50 a.m.)

ACC 232- 1 Principles	115B Davis
ANT 231- 1 Intro Ant	216B Massoth
BA 331- 1 Business Law	111B Stelley
BIO 142- 1 General Bio	101BG Ramsey
CA 338- 1 Public Schl Art	202AB Williams
CA 438- 1 Psychol of Art	201AB Rogan

CHM 144- 1 Introductory	102C Mers
ECO 232- 1 Principles	118B Allen
EDU 330- 1 Tech Med Pro Ins	1ES Mang
EDU 3301- 1 Sur Excp Child	5ES Deselle
EDU 339- 1 Read Meth	4ES Blackburn
EDU 433- 1 Corr Read	3ES Ilika
EDU 532- 1 Curr Issues	116B McLaughlin
EE 336- 1 Energy Conv II	126E1 Cooke
EGR 132- 1 Mechanics I	111E2 Ali
EGR 332- 1 HMMT II	134E1 Thomas
ENG 131- 3 Composition	105BG
ENG 132- 4 Composition	209BG
ENG 132- 5 Composition	203BG
ENG 132- 6 Composition	206B
ENG 231- 1 Srvy Brit Lit	204B Martin
ENG 232- 3 Srvy Brit Lit	107B Branom
ENG 337- 1 The Drama	115LA Renfrow
ENG 4314- 1 Amer Realism	108LA Rule
ENG 232- 2 Read Comp Conv	214B Hensley
GOV 232- 2 Am St Gov Organ	102B Stevens
GOV 232- 3 Am St Gov Organ	102BG Polinard
HIS 131- 1 World History	118LA Gwin
HIS 232- 2 United States	120LA Ware
HIS 232- 3 United States	211B Sutton
HIS 4316- 1 US 1898-1929	107BG Woodland
HIS 538- 1 Seminar Kennedy	213B Isaac
HPE 227M- 1 Swimming	Pool Tubbs
HPE 227M- 2 Swimming	Pool Tubbs
HPE 233- 1 Phy Ed Elem Sch	107MG Frederick
HPE 113W- 1 Beg Swim	Pool Gremillion
HPE 114W- 1 Int Swim	Pool Gremillion
HPE 212W- 1 Activity	Field Wilson
MTH 132- 2 Finite Mth II	104C Lauffer
MTH 133- 2 Trigonometry	106C Staff
MTH 134- 2 College Algebra	202BG Harvill
MTH 138- 1 Analysis I	100MG Mades
MTH 231- 1 Analysis III	110BG Brenizer
MTH 339- 1 Adv Cal	111BG Crim
MTY 131- 1 Elements Music	101MS Wadenpfohl
PHL 232- 1 Logic	104B Wall
PHY 142- 1 Elec Magntsm Lt	226P Goines
PSY 231- 1 General Psy	108P Breining
SOC 132- 2 Socl Probs	110LA Coppage
SOC 339- 1 Juvenile Del	105B Drenan
SPA 132- 1 First Year Spa	103MS Pineda
SPA 231- 1 Read Comp Conv	213BG Francis
SPC 131- 2 Fundamentals	105MS Skinner
SPC 231- 1 Audiology	6ES Achilles
SPC 333- 1 Storytelling	107MS Blanton
SS 231- 1 Sec Prct	202B Stead
SS 332- 1 Dict & Trans	201B Sladczyk

## Second Term - continued

### GROUP C

(10:00 a.m.-11:20 a.m.)

ACC 232- 2 Principles	115B Pearson
ACC 432- 1 Advanced	118B Bennett
BA 335- 1 Industrial Mgmt	202B Neil
BA 433- 1 Advertising	111B Taylor
BIB 132- 1 New Testament	CCSC Wright
BIO 142- 2 General Bio	101BG Bryan
BIO 347- 1 Genetics	102BG Waddell
CA 130- 1 Appr Fine Arts	100AB Newman
CA 337- 2 Public Schl Art	202AB Rogan
CHM 342- 1 Organic	102C Hansen
EDU 3312- 1 Edu Orth Hdcpd	1ES Cheek
EDU 333- 1 Lang Arts Meth	5ES Coody
EDU 338- 1 Cur Mat Sec	3ES Massey
EDU 434- 1 Cls Mgt Elem	4ES Wilbanks
EGR 231- 1 Mechanics II	111E2 Rogers
EGR 233- 1 Circuits Fields	126E1 Cherry
ENG 131- 4 Composition	206B
ENG 131- 5 Composition	213BG
ENG 132- 7 Composition	105BG
ENG 132- 8 Composition	116B
ENG 231- 2 Srvy Brit Lit	107B Harvill
ENG 232- 4 Srvy Brit Lit	115LA Meeks
ENG 538- 1 Existential Lit	108LA Deschweinitz
GEG 230- 1 World Geg	216B Massoth
GER 232- 1 Read Comp Conv	108BG Smith
GOV 231- 2 Am Const	211B Platt
GOV 232- 4 Am St Gov Organ	204B Coffey
GOV3317- 1 Pol of Dev Areas	213B Stephens
HIS 132- 2 World History	120LA Mackey
HIS 231- 2 United States	102B Isaac
HIS 232- 4 United States	104B Stiles
HIS 337- 1 Diplomatic US	105B Sutton
HIS 432- 1 Fre Rev Nap	118LA Williams
HPE112M- 1 Fr Act Phys Ft	MG Tubbs
HPE112M- 2 Fr Act Phys Ft	MG Tubbs
HPE228M- 1 Sr Life Saving	Pool Frederick
HPE228M- 2 Sr Life Saving	Pool Frederick
HPE 431- 1 Rec Leadership	107MG Yates
HPE113W- 2 Beg Swim	Pool Gremillion
HPE113W- 3 Beg Swim	Pool Gremillion
HPE114W- 2 Int Swim	Pool Wilson
HPE115W- 1 Lifesaving	Pool Wilson
HPE 335- 1 PE for Atypical	103UG Holm
MLT 130- 1 Appreciation F A	101MS Burkart
MTH 131- 2 Finite Mth I	104C Mades
MTH 136- 1 Contemp Mth II	106C Read B
MTH 137- 1 Contemp Mth III	202BG Dement
MTH 138- 2 Analysis I	110BG Ford
MTH 139- 2 Analysis II	203BG Dingle
MTH 234- 1 Prob and Stat	134E1 Harvill
MTH 432- 1 Complex Var	209BG Cowan
MTY 131- 2 Elements Music	103MS Parks
PHY 335- 1 Modern Physics	226P Shepherd
PSY 234- 1 Child Psy	108P Flocke
SOC 131- 1 Intro Soc	107BG Boren
SOC 132- 3 Socl Probs	214B Sheinberg
SOC 330- 1 Amer Society	110LA Gibson
SPC 130- 1 Appr Fine Arts	105MS James
SPC 131- 3 Fundamentals	6ES Achilles
SPC 336- 1 Crtv Dramatics	107MS Blanton
SS 135- 1 Records	201B Sladczyk

### GROUP D

(11:30 a.m.-12:50 p.m.)

BA 331- 2 Business Law	202B Stelley
BA 4313- 1 Job Evaluation	115B Hay
BA 432- 1 Statistics	118B Hawkins
BIO 142- 3 General Bio	101BG Gatlin
BIO 244- 1 Disease Immunity	102BG Smith
BIO 441- 1 Parasitology	108BG Turco
BIO 531- 1 Seminar Bio Sci	110BG Hayes
CHM 333- 1 Inorganic	102C Eads

ECO 232- 2 Principles	201B Browning
EDU 331- 1 Found Edu	4ES Hybarger
EDU 335- 1 Arith Meth	3ES Blackburn
EDU 430- 1 Edu Men Rtd	5ES Deselle
EDU 534- 1 Adv Hum Dev	1ES Briggs
EDU 536- 1 Prob Tea LA&SS	6ES Ilika
EGR 234- 1 Thermodynamics	111E2 Greene
ENG 131- 6 Composition	206B
ENG 131- 7 Composition	204B
ENG 132- 9 Composition	116B
ENG 132-10 Composition	105BG
ENG 231- 3 Srvy Brit Lit	107B Rule
ENG 232- 5 Srvy Brit Lit	108LA Branom
ENG 535- 1 Hamlet	201LA Renfrow
FRE 132- 1 First Yr Fre	105B Francis
GEO 142- 1 Historical Geo	202BG Aronow
GOV 231- 3 Am Const	211B Platt
GOV 232- 5 Am St Gov Organ	213B Stevens
GOV3311- 1 Group Politics	214B Polinard
HIS 134- 1 Texas History	120LA Seale
HIS 231- 3 United States	107BG Woodland
HIS 232- 5 United States	216B Ware
HIS 4318- 1 Classical Civiliz	118LA Gwin
HPE 532- 1 Seminar	107MG Yates
MTH 131- 3 Finite Mth I	104C Crim
MTH 132- 3 Finite Mth II	106C Brenizer
MTH 133- 3 Trigonometry	134E1 Staff
MTH 134- 3 College Algebra	203BG Staff
MTH4312- 1 Adv Data-Proc	209BG Lauffer
MTY 131- 3 Elements Music	101MS Wadenpfehl
PHL 231- 1 Intro Phl	102B Wall
PSY 335- 1 Motivation	108P Breining
PSY 432- 1 Abnormal Psy	226P Flocke
SOC 132- 4 Socl Probs	110LA Coppage
SOC 338- 1 Criminology	104B Drenan
SPA 232- 1 Read Comp Conv	103MS Pineda
SPC 131- 4 Fundamentals	107MS James
SPC 333- 2 Storytelling	105MS Campbell
SS 222- 1 Prod Typing	203B Stead

### GROUP E

(1:00 p.m.-2:20 p.m.)

ACC 332- 1 Intermediate	115B Davis
BA 332- 1 Prin of Fin	118B Allen
BA 337- 1 Selling	202B Taylor
CHM 142- 1 General	102C Harmon
EDU 332- 1 Edu Psy	3ES Briggs
EDU 438- 1 Cls Mgt Sec	6ES Hybarger
EDU 439- 1 Nat Nds Neur Imp	4ES Cheek
EDU 5321- 1 Technology	1ES Mang
EDU 537- 1 Elem Sch Curr	5ES Hargrove
EGR 122- 1 Digital Comp	126E1 Rogers
ENG 131- 8 Composition	105BG
ENG 132-11 Composition	206B
ENG 132-12 Composition	107B
ENG 232- 6 Srvy Brit Lit	108LA Deschweinitz
ENG 4319- 1 Contemp Fiction	115LA Barnes
GOV 232- 6 Am St Gov Organ	102B Cayer
PSY 231- 2 General Psy	226P Cunningham

### GROUP F

(Time Arranged)

BA 669A- 1 Thesis	Landes
BA 669B- 1 Thesis	Landes
CHM 669A- 1 Thesis	Staff
CHM 669B- 1 Thesis	Staff
EDU 669A- 1 Thesis	Staff
EDU 669B- 1 Thesis	Staff
EGR 4101- 1 Special Prob	101E1 Thomas
EGR 4201- 1 Special Prob	101E1 Thomas
EGR 4301- 1 Special Prob	101E1 Thomas
EGR 4401- 1 Special Prob	101E1 Thomas

## Second Term continued

EGR 669A- 1 Thesis	101E1 Thomas	GROUP G	
EGR 669B- 1 Thesis	101E1 Thomas	(6:00 p.m.-8:00 p.m.)	
ENG 669A- 1 Thesis	Staff		
ENG 669B- 1 Thesis	Staff		
GEO 4601- 1 Earth Science	201BG Eveland	BA 435- 1 Human Rel	118B Hay
HIS 669A- 1 Thesis	Wooster	CHM 427- 1 Intro Res	Staff
HIS 669A- 2 Thesis	Wooster	CHM 437- 1 Intro Res	Staff
HIS 669B- 1 Thesis	Wooster	CHM 447- 1 Intro Res	Staff
HIS 669B- 2 Thesis	Wooster	ECO 232- 3 Principles	105B Hawkins
HPE 416- 1 St Teach Dr Ed	106MG Higgins	ECO 432- 1 Money & Bank	202B Browning
HPE 430- 1 Problems HPE	106MG Higgins	ENG 131- 9 Composition	201B
MIH 4302- 1 Adv Cal Egr	226P Stark	ENG 132-13 Composition	108LA
MIH 669A- 1 Thesis	209E1 Stark	ENG 232- 7 Srvy Brit Lit	115LA Staff
MIH 669B- 1 Thesis	209E1 Stark	GOV 232- 7 Am St Gov Organ	104B Cayer
PHY 414- 1 Exprmtl Project	Staff	HIS 232- 6 United States	102B Seale
PHY 415- 1 Exprmtl Project	Staff		

### Laboratories

BIO 142- 1 General Bio	8:30- 9:50 M-Th	113BG Bryan
BIO 142- 2 General Bio	10:00-11:20 M-Th	111BG Gatlin
BIO 142- 3 General Bio	10:00-11:20 M-Th	113BG Olson
BIO 142- 4 General Bio	11:30-12:50 M-Th	111BC Ramsey
BIO 142- 5 General Bio	11:30-12:50 M-Th	113BG Olson
BIO 244- 1 Disease Immunity	1:30- 4:30 MWF	110BG Smith
BIO 347- 1 Genetics	8:30- 9:50 M-Th	108BG Waddell
BIO 441- 1 Parasitology	1:30- 4:20 MWTh	108BG Smith
CHM 142- 1 General	2:30- 5:30 MWTh	215P Harmon
CHM 142- 2 General	2:00- 5:00 MWTh	223P Eads
CHM 144- 1 Introductory	2:00- 5:00 TuF	215P Mers
CHM 342- 1 Organic	1:00- 5:00 MWTh	210C Hansen
EGR 122- 1 Digital Comp	2:00- 5:00 MTTh	Rogers
GEO 142- 1 Historical Geo	1:00- 4:00 MW	209BG Aronow
GEO 142- 2 Historical Geo	1:00- 4:00 TT	209BG Aronow
GEO 4601- 1 Earth Science Inst	1:00- 4:00 M-F	213BG Eveland
PHY 142- 1 Elec Magntsm Lt	11:30- 1:30 MTT	101P Goines
PHY 142- 2 Elec Magntsm Lt	1:30- 3:30 MTT	101P Goines

## 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 offices.
5. If you do not plan to live at home send your dormitory deposit (\$20.00) with request for space to Student Life Office, Lamar State College, Beaumont, Texas.

### 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 semester hours have been earned. A total score of 700 is required.
5. If you do not plan to live at home send your dormitory deposit (\$20.00) with request for space to Student Life Office, Lamar State College, Beaumont, Texas.

### 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.

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