



Lamar University

College of Technical Arts

1985-86 Bulletin

Vol. 34 No. 3

Sixteenth annual catalog issued with announcements for 1985-86.

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

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

Lamar University is an equal opportunity/affirmative action educational institution and employer. Students, faculty and staff members are selected without regard to their race, color, creed, sex, or national origin, consistent with the Assurance of Compliance with Title VI of the Civil Rights Act of 1964; Executive Order 11246 as issued and amended; Title IX of the Education Amendments of 1972; and the Rehabilitation Act of 1973.

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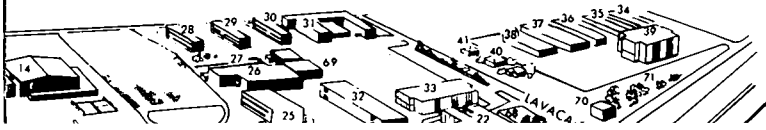
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Summer Session 1986—First Term

May 1986

30 International Student Orientation

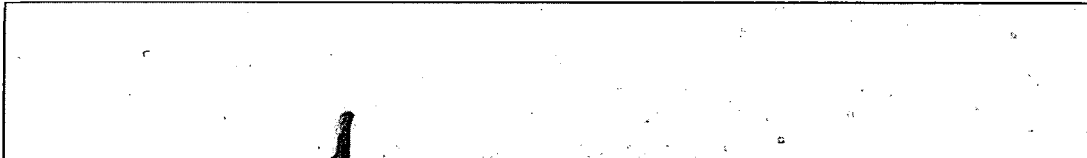
June 1986

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

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General Information

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Mechanical Engineering are accredited by the Accrediting Board for Engineering and Technology. The undergraduate programs of the College of Business are accredited by the American Assembly for Collegiate Schools of Business. Other accreditations include the Depart-

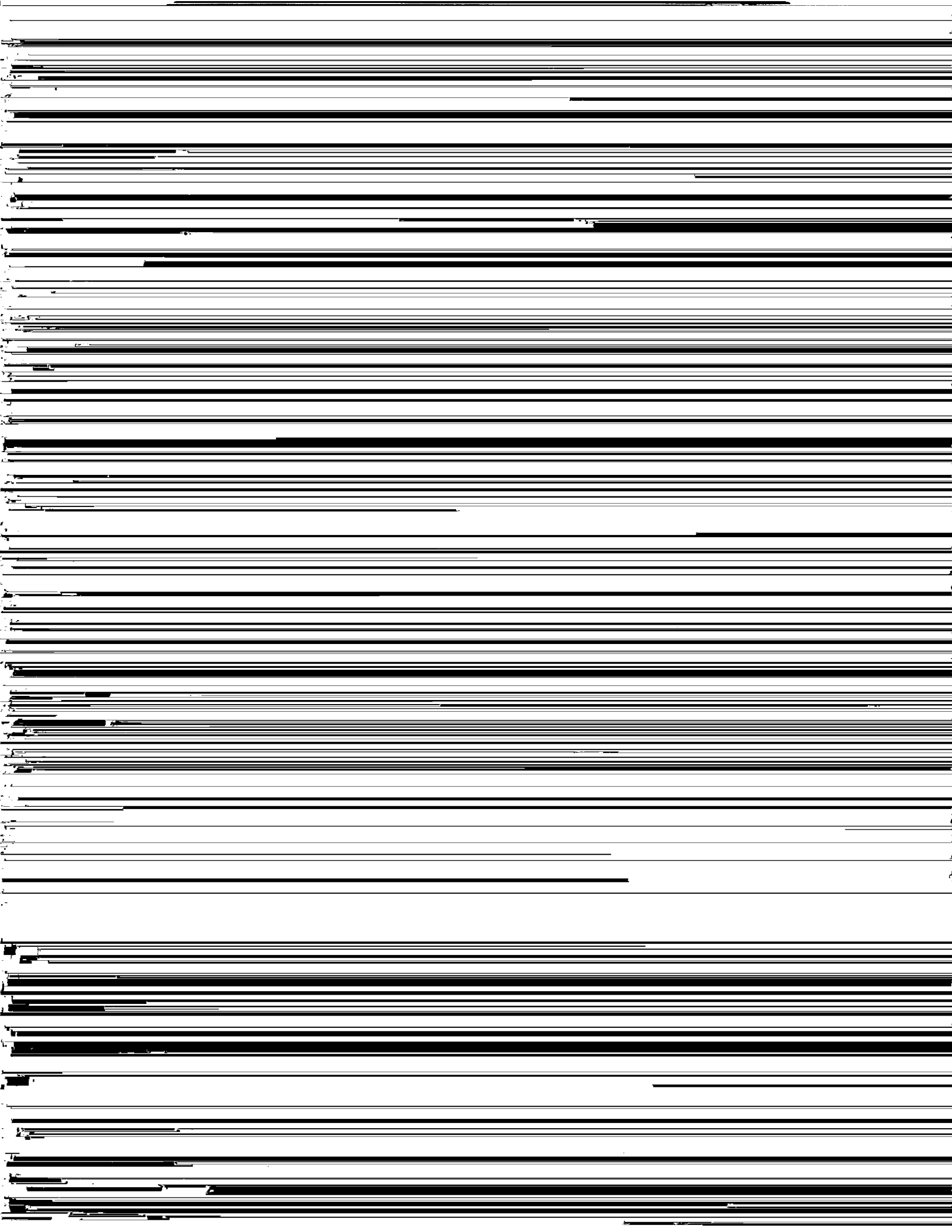
Admissions

High School Relations, Orientation and Recruitment

The Office of School Relations, located in Room 201 of the Wimberly Student Affairs Building, provides complete admissions counseling for entering students. Professionally trained personnel assist prospective students in assimilating all admission credentials so that

Financial Aid and Awards

Financial assistance in the form of scholarships, grants, loans and employment is available to a number of qualified students. Information regarding programs and eligibility criteria can be obtained from the Office of Student Aid, P.O. Box 10000, Lamar University, P.O. Box 10000, Lamar, TX 77380-0000.



Fees and Expenses

Lamar University reserves the right to change fees in keeping with acts of the Texas Legislature and the University's Board of Regents.

Payment of Fees

A student is not registered until all fees are paid in full. Payment may be made by check, money order or currency. Checks and money orders, not in excess of total fees, should be made payable to Lamar University and will be accepted subject to final payment. Checks and drafts deposited with Federal Reserve banks cannot be handled through regular bank collection channels if received without the magnetic ink (MICR transit number).

Summary of Registration Expenses

Parking Fee

Charges for parking on campus are made at registration. Automobile registration fees are as follows: Fall Semester, \$15; Spring Semester, \$10; Summer Session I, \$6; Summer Session II, \$4. Only one registration is required during an academic year, and a student's

(d) COOP students. for semester when they are not taking classes or are on COOP

Fine and Breakage Loss

When fines are assessed for breakage or loss of equipment or other charges must be paid

College of Technical Arts

The College of Technical Arts is a part of Lamar University.

Qualitative Research

Adult Training Programs

Supervisor: Norman F. Lowrey

318 Bacon Technical Arts Building

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- DDA 2311 Measurement Strategies Practicum** 3:0:10
A practicum to provide experience in support of DDA 231.
Co-requisite: DDA 231
- DDA 232 Promoting Individual Development** 3:3:0
This course will provide the student with the theory of physical and cognitive development and techniques for working with persons with developmental disabilities.
- DDA 233 Music Theory** 3:2:2
This course will focus on the practical use of music to modify the behavior of persons with mental retardation and developmental disabilities. The participants will be given experience in the planning and implementation of music therapy activities through the use of adapted musical instruments and published music therapy materials.
- DDA 234 Teaching Life Skills I** 3:2:2
This course will provide the student with information and the practical use of techniques for teaching personal life skills to persons with mental retardation.
- DDA 235** _____

Electrical Technology Courses (ELE)

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IT 235 Introduction to Robotics

Introduction to Robotics relative to instrumentation. A study of pneumatic, hydraulic and electrical power supplies and controls used by Industrial robots.

IT-236 Electronic Instrument Lab

3-0-6

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238 Fire Service Communications

The development of fire alarm systems, the various types of systems, installation, operation and testing of the most common systems, receiving, dispatching and radio communication procedures; FCC regulations; the fire

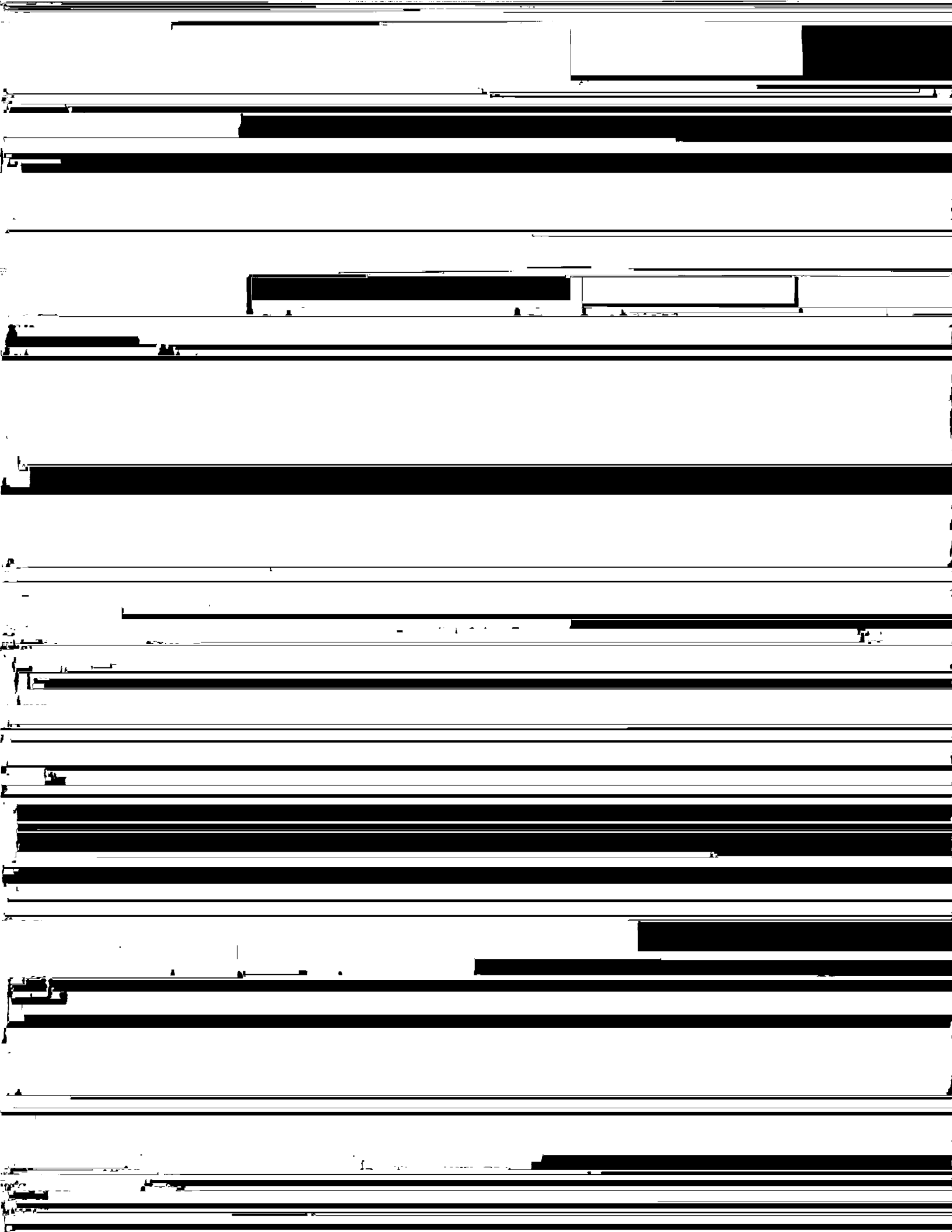
1328 Marine Blueprint Reading

3:3:0

A study of marine and shipbuilding blueprints, and the symbols and conventions relating to them. The course

includes the study of AISC symbols and conventions.

Industrial Fire Training: One and two-day courses are offered for fire brigade members.



To effectively repair an engine which does not perform, the mechanic must be able to

139 Accessory Servicing

3:0:7

Repair of water pumps, oil pumps, fuel pumps, blowers, minor engine tune-up, valve and turbocharger repair.

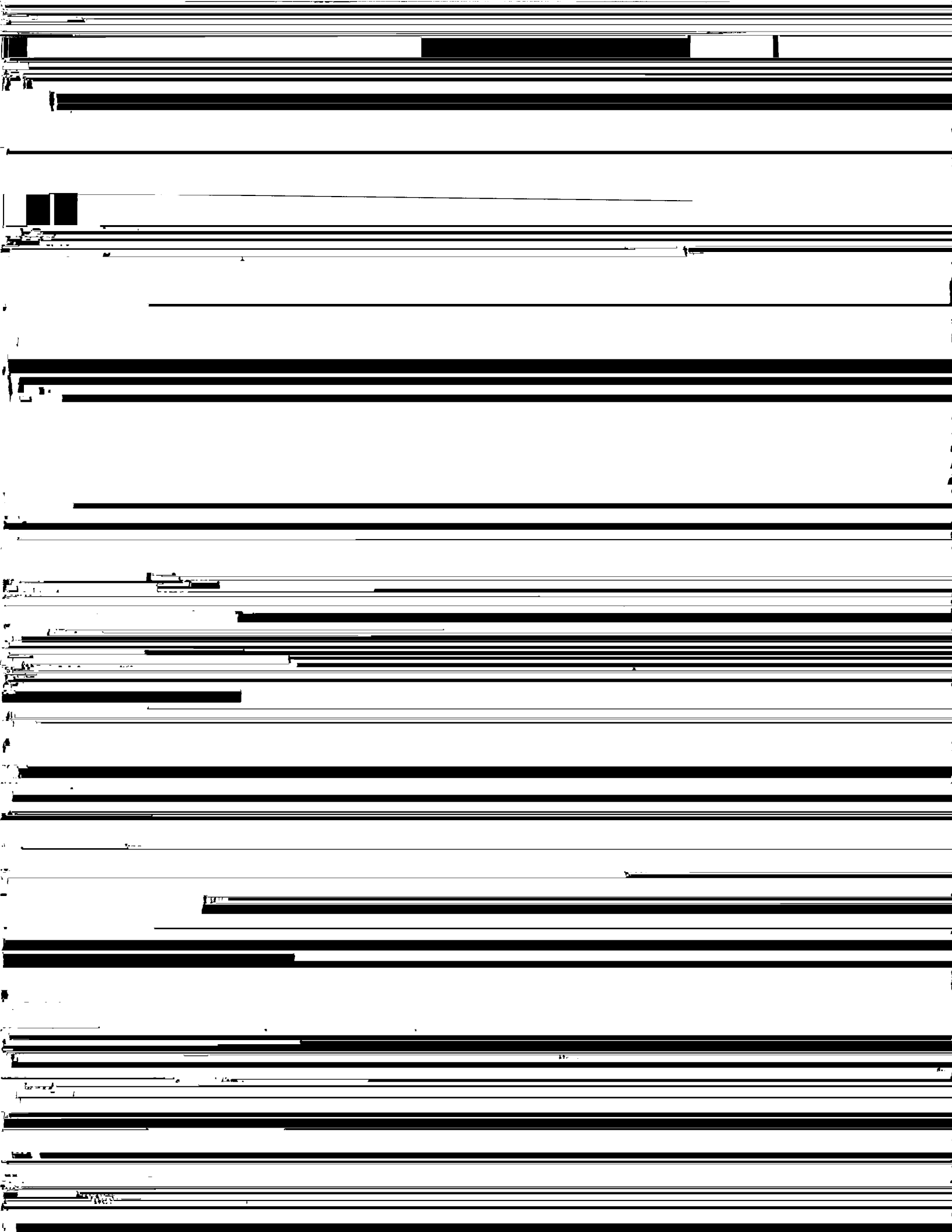
Prerequisite: DM 136 and 137.

231 Ignition and Combustion Principles

3:3:0

Electrical systems, governors, fuels and combustion and fuel systems.

Prerequisite: DM 131 and 132.



Refrigeration and Air Conditioning Technology Courses

238 **Advanced Air Conditioning**

3:0:7

Sizing, installing and checking small tonnage commercial air conditioning systems. Design and installation of primary and secondary electrical circuits. Sizing, installation and capacity testing water pumps and water

- 132 AC-DC Welding, Oxyacetylene Cutting 3:3:0
Proper methods employed in AC-DC shielded metal arc welding (SMAW) and oxyacetylene cutting. Soldering and soldering alloys. Safety. Blueprint reading continued.
- 133 Welding as an Elective 3:3:1-3
Arc welding SMAW in the flat, horizontal, vertical and overhead positions. Oxyacetylene cutting and...

239 Advanced Pipe Welding

3:0:7

Concentration on pipe welding in the vertical fixed and "Arkansas Bell-Hole" positions (positions 5G and 6G)

Related Arts Department

Department Head: Joe I. Juarez

229 Beeson Technical Arts Building

Business Data Processing

The objective of this course of study is to prepare the student for a career in computer



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Third Semester

Fourth Semester

Third Semester
RES 2313 Advanced Appraising..... 3:3:0

Fourth Semester
PTA 231 Mass Property Appraisal..... 3:3:0

Real Estate Courses (REs)

1311 Principles and Practices

3:3:0

2341 Computer/Robotic Systems I

3:3:0

Basic theory of positioning mechanisms and positioning techniques including pneumatic, electromechanical and hydraulic systems. Types of measurements and processes related to positioning.

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- 231 **Digital Logic I** 3:3:0
The theory of TTL, including timers, readouts, OP AMPS, the use of Truth tables, and the binary number system.
Prerequisite: IET 135 and 1341.
- 232 **Digital Logic II** 3:3:0
The theory and application to practical circuits using CMOS devices. Emphasis is placed on clocked circuits, flip-flops, shift registers, counters and OP-amplifiers.
Prerequisite: IET 231.
- 2331 **Electronic Physics** 3:3:0
A basic study of light, sound and mechanics as they relate to the field of electronics.
Prerequisite: TM 1334 and IET 139.

Lamar University at Orange

Lamar University began offering courses in Orange, Texas, in 1969 on an extension campus. The extension campus is located in Orange, Texas, and the citizens of



Academic Affair

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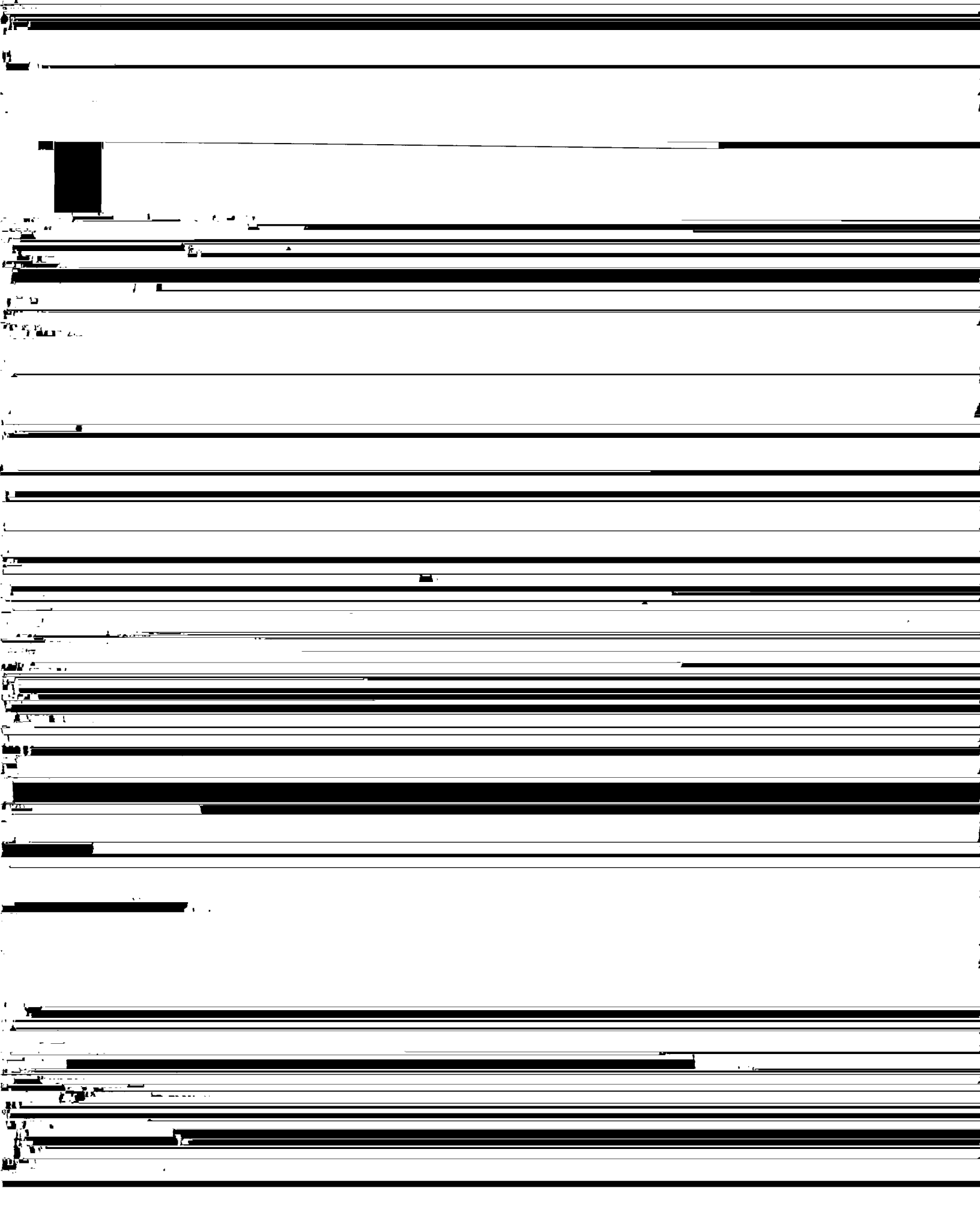
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Any first-time college student who entered a junior college on or after September 1,
1967, is eligible for admission under the Lamar University

Semester grades are filed with the Office of Admissions and Records. A grade may not be recorded for a student not officially enrolled in a course during the semester.

Enforced Withdrawal Due to Illness

The director of the Health Center and the vice-president for Student Affairs, on the



Semester Hour

The unit of measure for credit purposes is the semester hour. One hour of recitation or

office of the dean of Student Development and in the office of Admissions and Records

Student Affairs

Counseling and Testing Center

Lamar University maintains a Counseling and Testing Center to serve students encountering educational, social, or personal difficulties as well as provide testing services. The

for treatment; furthermore, every effort will be made to notify the parent or guardian of the student's needs.

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

goal of the office is to increase the retention and graduation rate of students who, by traditional academic measures, would have difficulty succeeding in college. There are also cultural and social activities and seminars included in the program to motivate, expose and help students learn to think more clearly and effectively in problem-solving situations.

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

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

The overall thrust of the program is: (1) to identify those students having academic

Setzer Student Center Council

The Setzer Student Center Council (SSCC) is the student organization responsible for providing the campus with a variety of services.

Any full-time student not on disciplinary or scholastic probation, who is officially registered, is eligible to become a candidate and/or to hold student office or to represent the student body in extracurricular activity provided such student has a grade point average

decision to the University Discipline Committee. This appeal is made through the Office of the Dean of Student Development and the Office of Student Discipline.

Fees

Room and Board fees may be paid in one, two or three installments as outlined on the schedule furnished by the Housing Office. Statements will not be mailed to students or parents and a \$10 late fine plus \$1.00 per day will be charged for failure to comply with the established schedule. Failure to pay all University fees by the specified date will result in suspension from the 12th week in the long semester and the 4th week in the summer term.

Academic computing work, particularly students in Computer Science courses, accounts for a large portion of the Computer Center's computer usage. Each student is responsible for preparing his or her own program. Most student programs are usually processed within thirty minutes. Key punches are available for machine reading. All programs must be prepared on a standard format.

Directory of Personnel 1984-85

Board of Regents

Lloyd Hayes, Chairman *Port Arthur*

Other Board Members

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

Clark, Lynnwood M. Jr., 1972, *Instructor II of Drafting Technology*

Hallmark, George E., 1984, Adjunct Instructor of Electrical Technology

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Worthington, Nancy 1984, *Adjunct Instructor Industrial Supervision*
A.A.S., B.S., Lamar University

BEAUMONT CAMPUS ADMINISTRATIVE STAFF:

Kenneth E. Shipper, *Dean*

Norman E. Lewis, *Assistant Dean*

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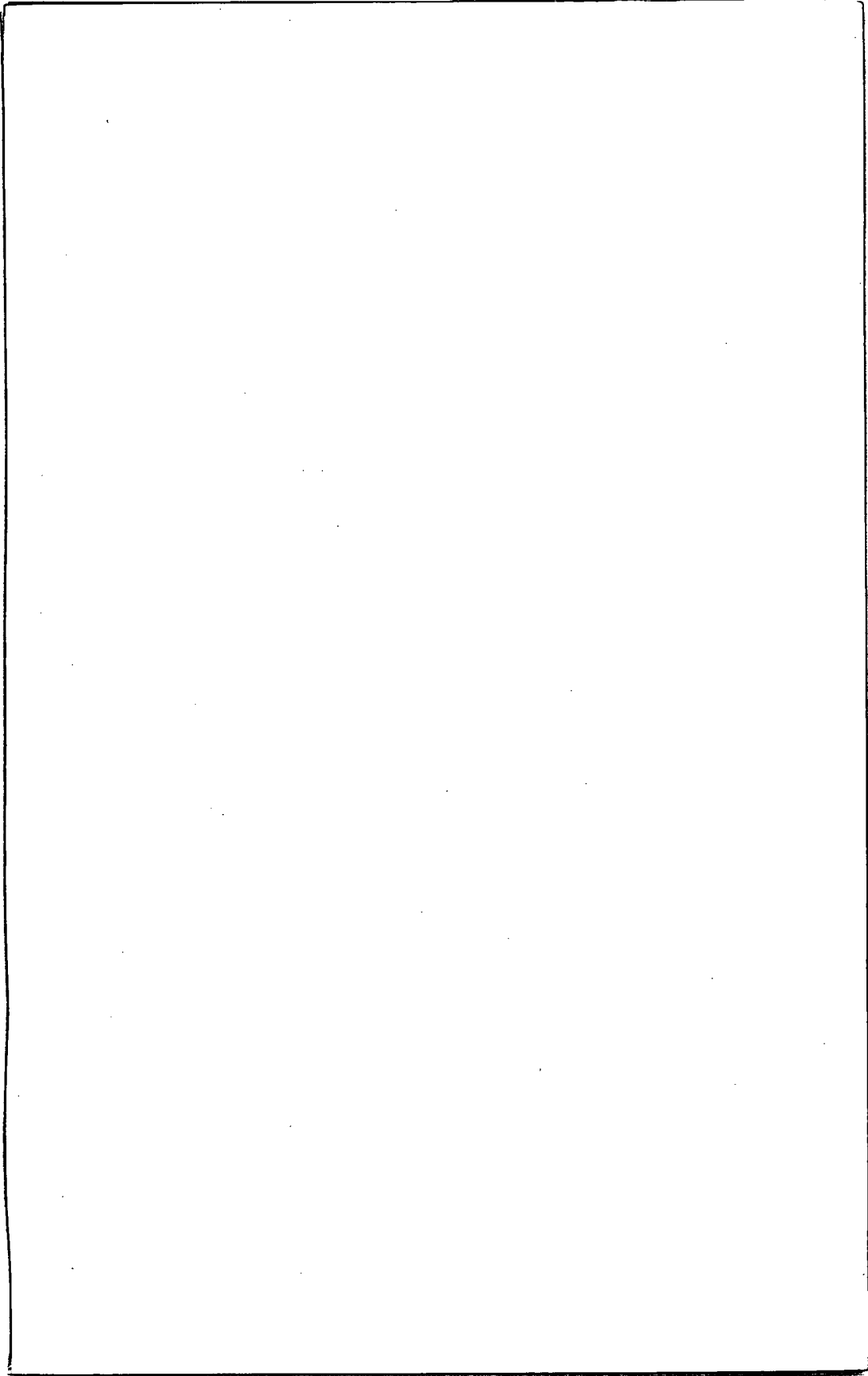
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