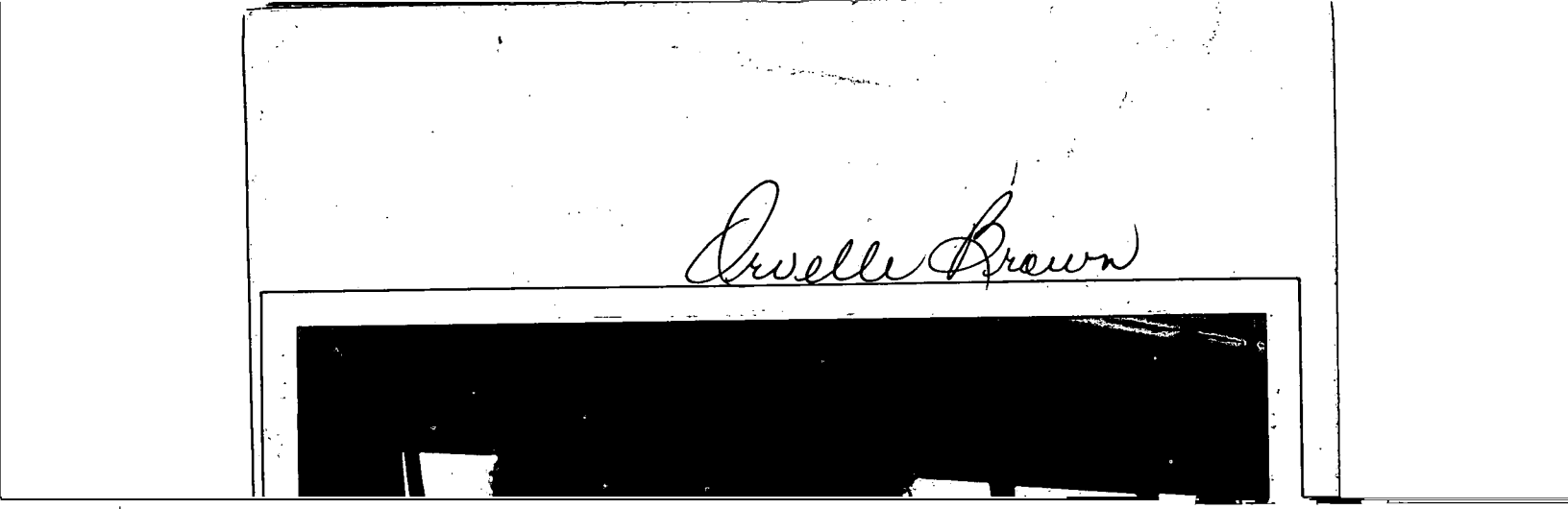

Orville Brown

Lamar University

1977-78 College of

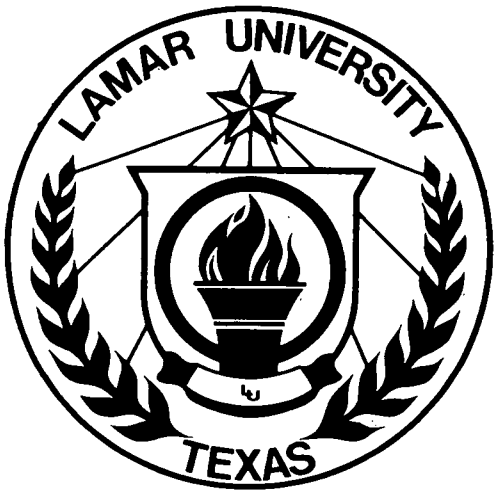
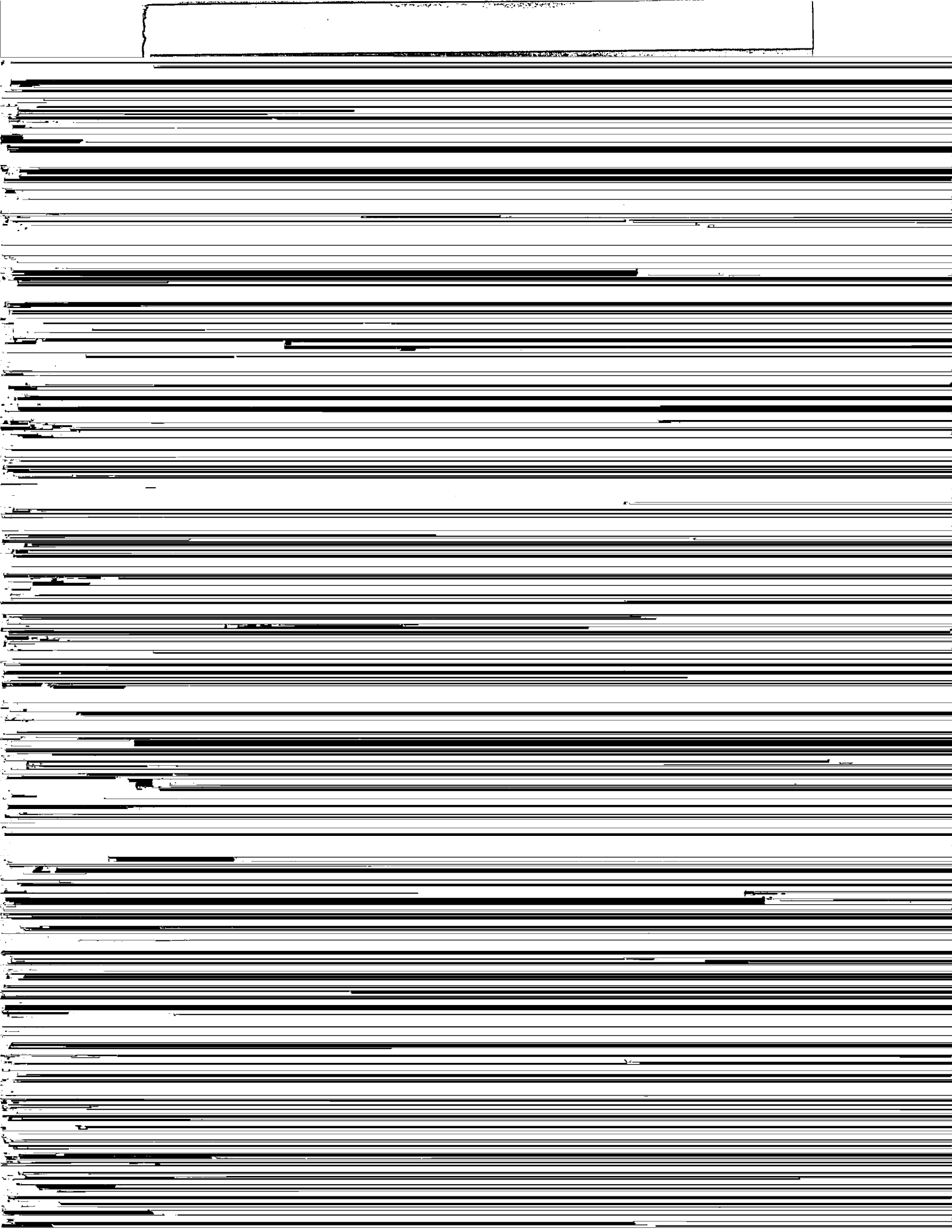

LAMAR UNIVERSITY
TEXAS

Table of Contents


GLADYS CITY
UNIVERSITY DRIVE
CREEK



1977-78 Calendar

FALL SEMESTER

AUGUST 1977

S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	..	..	..

21 Dormitories open.
22 Dining halls open.
Faculty and staff meetings.
Registration begins.
23-24 Registration.
25 Classes begin. Late registration. Re-schedule regi

DECEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17

8-14 Final examinations.

14 Dining halls close at 6 p.m.

MAY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13

4-10 Final examinations.

10 Dining halls close at 6 p.m.

SUMMER SESSION
SECOND TERM

JULY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15

6 Registration.

7 Classes begin.

Board of Regents

Otho Plummer, Chairman ..... Beaumont
A. H. Montagne, Vice-Chairman ..... Orangefield
Bryan D. Beck, Jr., Secretary ..... Beaumont

1976-77 Directory

Officers of Administration

GENERAL

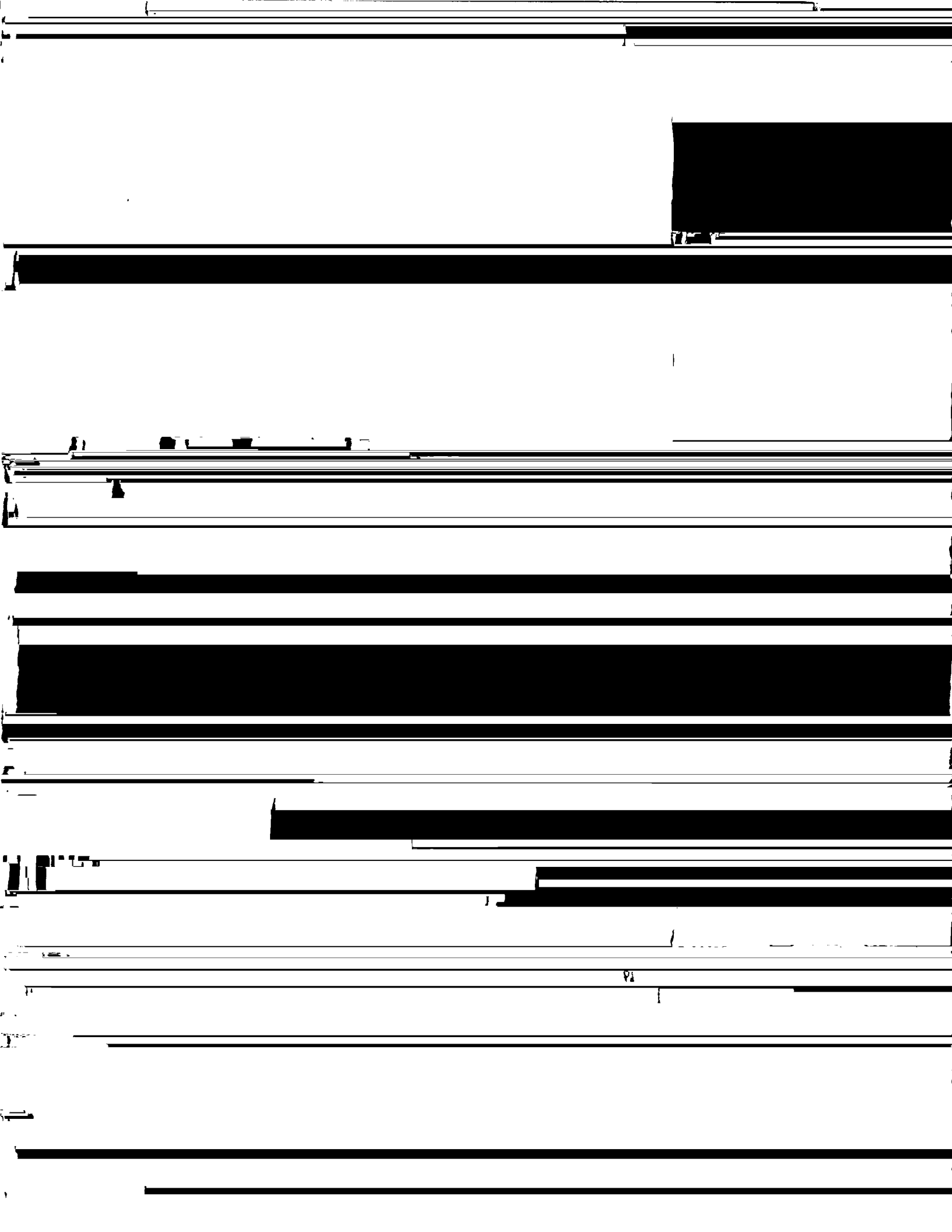
C. ROBERT KEMBLE, Ph.D.—President

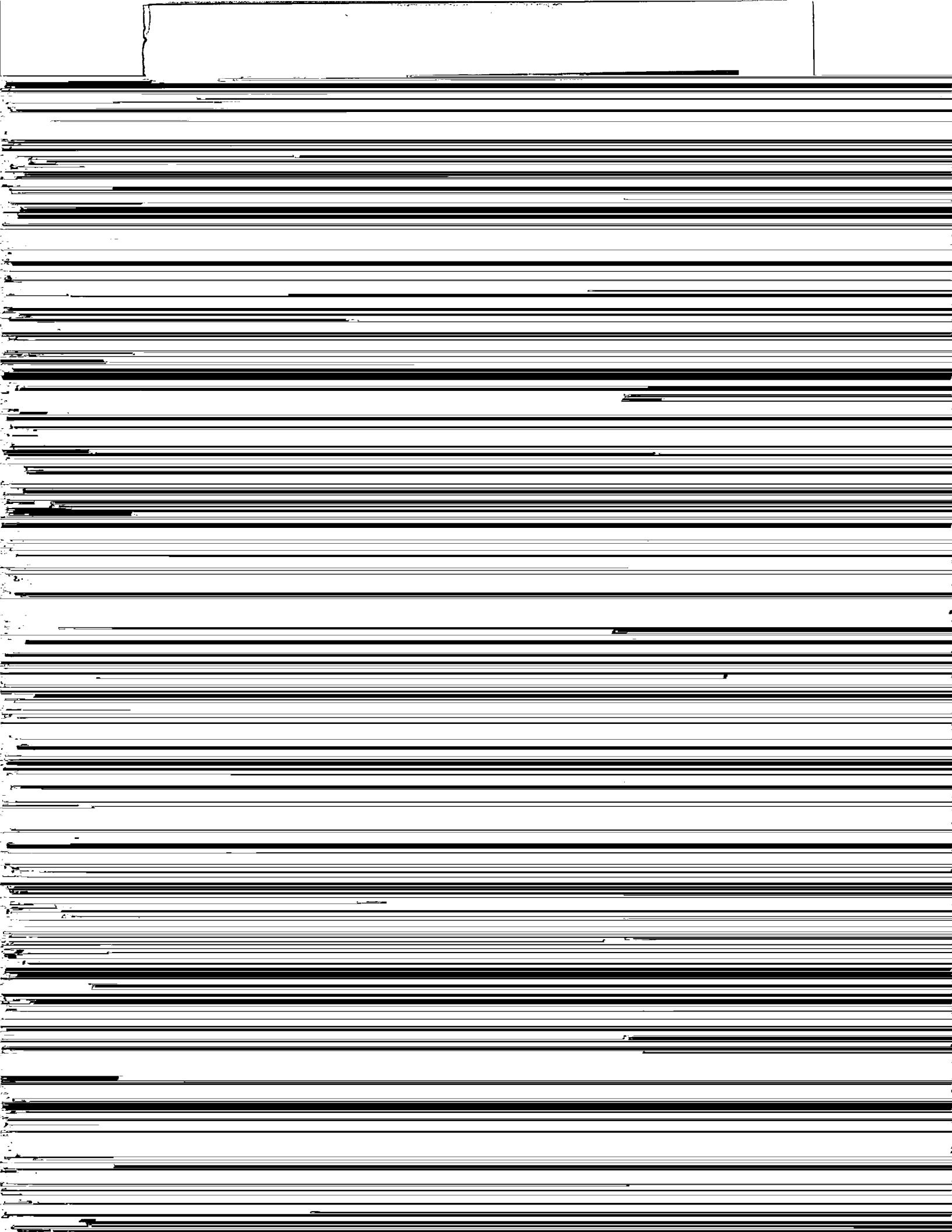
OTTO A. KRIEGEL, Instructor I of Machine Tools, 1973

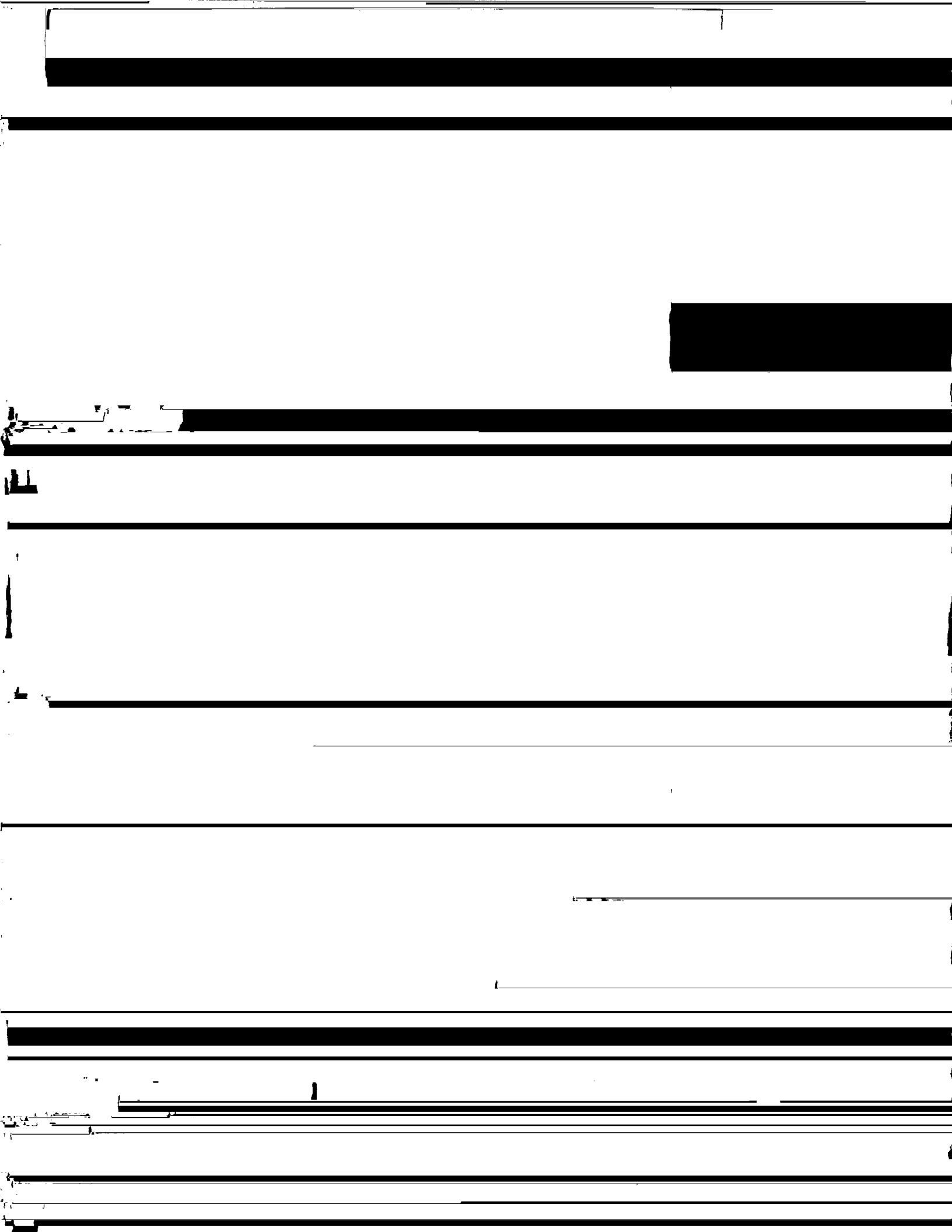
PART-TIME FACULTY

FRANK A. ADAMS, Adjunct Instructor of Real Estate, 1975
B.A., Vanderbilt University
J.D., The University of Texas

GREGORY M. JONES, Adjunct Instructor of Refrigeration and Air Conditioning







GOVERNMENT

A board of nine regents, appointed by the Governor and approved by the State Senate for terms of six years, governs the University. The Board of Regents delegates the direction of university affairs to the president, administrative officers and faculty.

ACCREDITATION

during the hours of regular classes may attend classes in the evening and work to obtain a degree or to expand his knowledge in a special field of interest as an adult nondegree student. Enrollment forms are available through the Office of Continuing Education, Wimberly Student Affairs Building.

Facilities

BUILDINGS AND GROUNDS

Lamar University's campus contains approximately 200 acres and the physical plant is valued at $70,000,000. Included among its many buildings are: Administration, Art,

CAMPUS POST OFFICE

The campus Post Office, a contract facility operated by the University, is officially

able. Application for such service should be made at the Texas Rehabilitation Commission, Beaumont District Office, 1110 Goodhue Building, Beaumont, Texas 77701.

Handicapped students at Lamar may receive special assistance with registration by contacting the Office of Admissions and Records one month prior to the registration in which they plan to enroll. The Counseling Center is staffed with qualified

mately 20,000 volumes are added to the collection annually. The library subscribes to

Admissions

ADMISSION REQUIREMENTS

Students who desire to enter programs in the College of Technology

Fees and Expenses

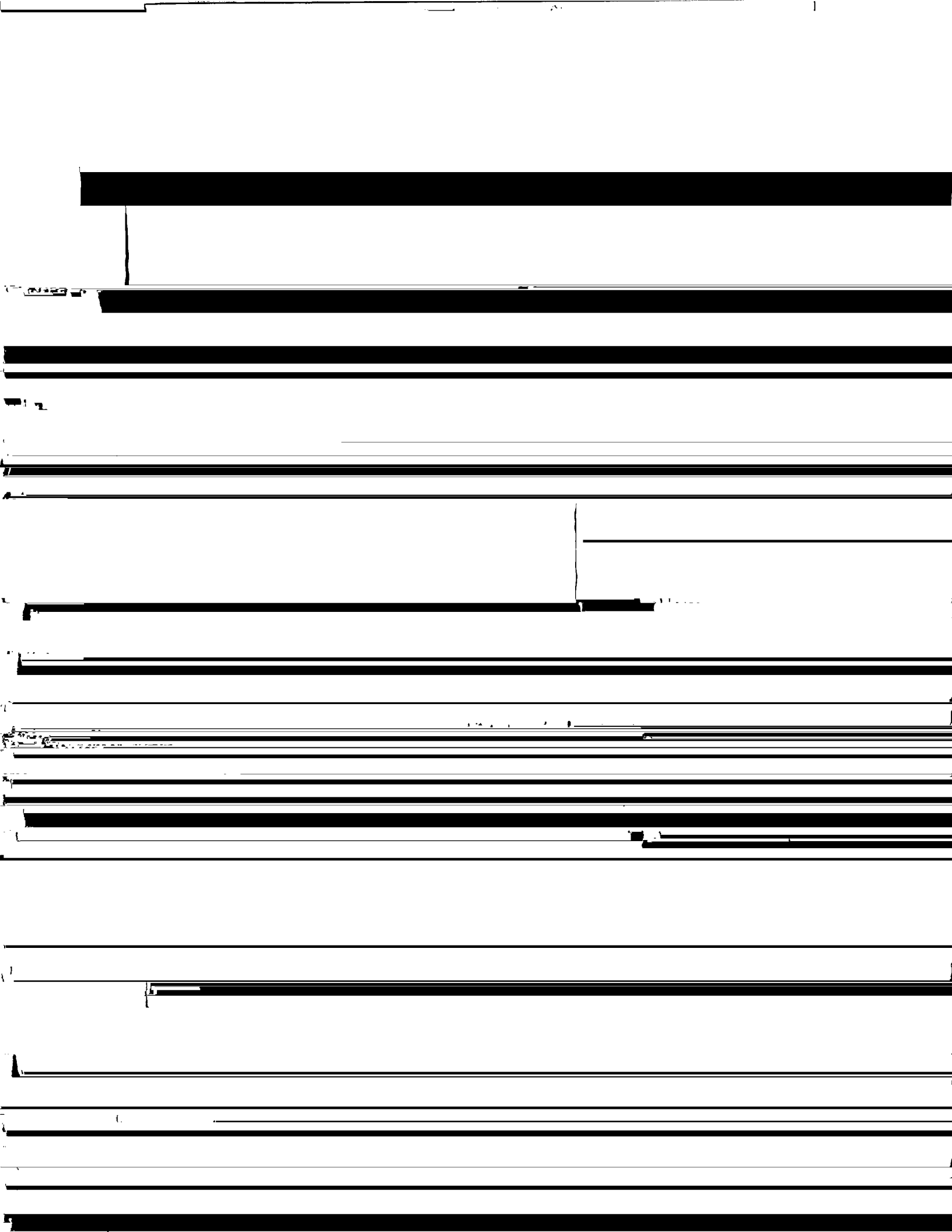
PAYMENT OF FEES

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

SUMMARY OF FEES

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

	No. of		Student	General	Science	Health



Summer Session

1. During the first week of the semester, 60 per cent

Student Housing

The student housing program at Lamar is designed to supplement the academic

Academic Regulations

COURSE NUMBERING

Each course has an individual alpha-numeric code (such as Dft 131). The alpha part indicates the subject area. Each number contains three or more figures. The first digit indicates the rank of the course: 1 means that it is for freshmen; 2, for sophomores; 3, for juniors; and 4, for seniors. The second figure indicates the number of semester hours credit. The third figure (or figures) indicates the order in which the course is taken.

Semester Hour

The unit of measure for credit purposes is the semester hour which [illegible]

A student may not withdraw within seven calendar days of the beginning of final examinations or three school days from the end of the semester.

dividing the sum of these by the total number of semester hours of all work taken, whether passed or failed except as provided above. The overall grade point average is used to determine eligibility for scholastic honors, membership in honor societies and rank in class. Graduate and professional schools use the overall grade point average in establishing admissions requirements.

A grade, once earned and entered upon a student's record, cannot be removed. If a student repeats a course which may not be taken for additional credit, the last grade received is the official grade and is the only one used in calculating the adjusted grade point average. This applies only if the course is repeated at the same institution.

The adjusted grade point average is used to determine status with regard to probation and suspension and eligibility for graduation. In determining the adjusted grade point average, the credit earned and grade points received may be used only once for each course, except for those courses that may be repeated for additional credit.

Credit for a course in which the grade of S is given is not included in computation of the grade point average. A student is not given credit for the grades of NG or U nor are the semester hours used in computing the grade point average.

Excess grade points transferred from another college cannot be used to make up a deficiency of grade points on work done at Lamar.

Reports

b. Hold collegiate or university office.
c. Participate in trips or tours except when required as class projects.

2. **Warning** — Each student is responsible for knowing his academic status and the

Graduation Requirements

ASSOCIATE OF APPLIED SCIENCE

Generally, a student is eligible for graduation when he has completed an approved program of study. Specifically, a student must:

1. Satisfy all admission requirements.
2. Complete an approved degree plan.
3. Have at least a 2.0 grade point average on all work submitted on the degree plan and a 2.0 on all courses in the major field submitted on the degree plan.
4. Complete 24 semester hours of major work at Lamar with 12 hours in 200 level courses.
5. Make final application for graduation and pay all fees by the deadline date as stated

General Regulations

NEW COURSES

In order to meet changing educational requirements, the University reserves the right to add any needed courses at any time with such regulations as may be necessary in the

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 University in any extracurricular activity provided such student has a grade point average of at least 2.0 for both the whole of his work completed at Lamar and that of the preceding semester.

Access to records by persons other than the student will be limited to those persons and agencies specified in the statute. Records will be maintained of persons granted such access and the legitimate interest in each case.

The release of information to the public without the consent of the student will be limited to the categories of information listed below which have been designated by the

Student Activities

Student life at the University includes many activities in addition to those connected

SETZER STUDENT CENTER COUNCIL

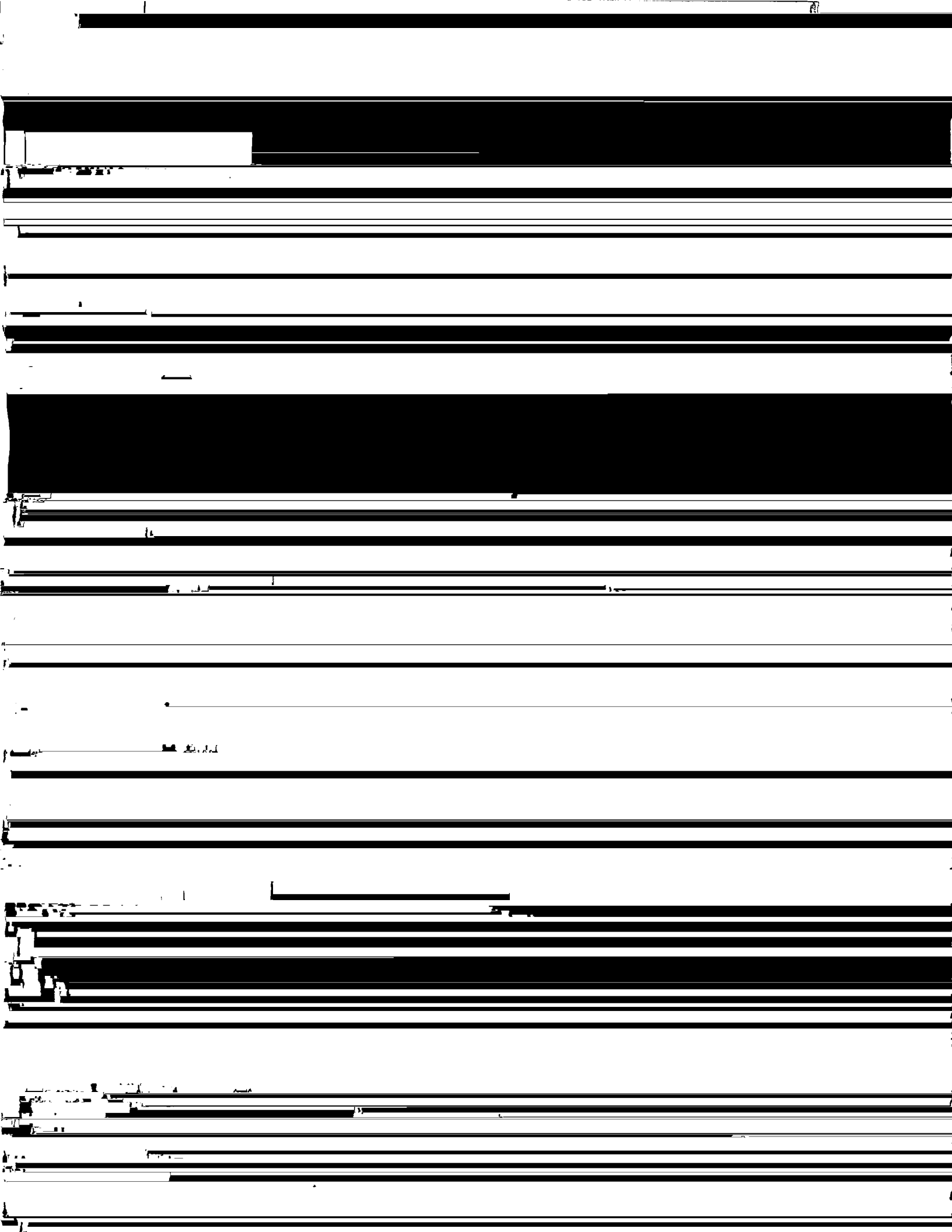
College of Technical Arts

ASSOCIATE DEGREE PROGRAMS

The College of Technical Arts offers career-oriented education in 14 degree programs in three departments in the College. The 14 programs that lead to the Associate of Applied Science degree are:

Industrial Department:

Automotive Mechanics*
Diesel Mechanics
Machine Tools



Bachelor of Science Degree

Bachelor of Science in Industrial Technology

In 1973-74, the College of Technical Arts offered a Bachelor of Science degree in Industrial Technology to students who successfully completed an approved program of study. *This program has been suspended.* Students who are enrolled in the four year program will be allowed to complete their degree as long as they are enrolled at Lamar University. Should a student fail to enroll for a Fall or Spring Semester, he will be dropped from the program. Students may submit, in writing prior to the beginning of a

Report of the College of Technical Arts

The College of Technical Arts became the largest college within the University system in 1975-76 with over 2,200 students. The largest increases occurred in programs where employed students sought to improve their professional status by attending night classes. Enrollment increases also occurred in the day programs, as more high school

Industrial Department

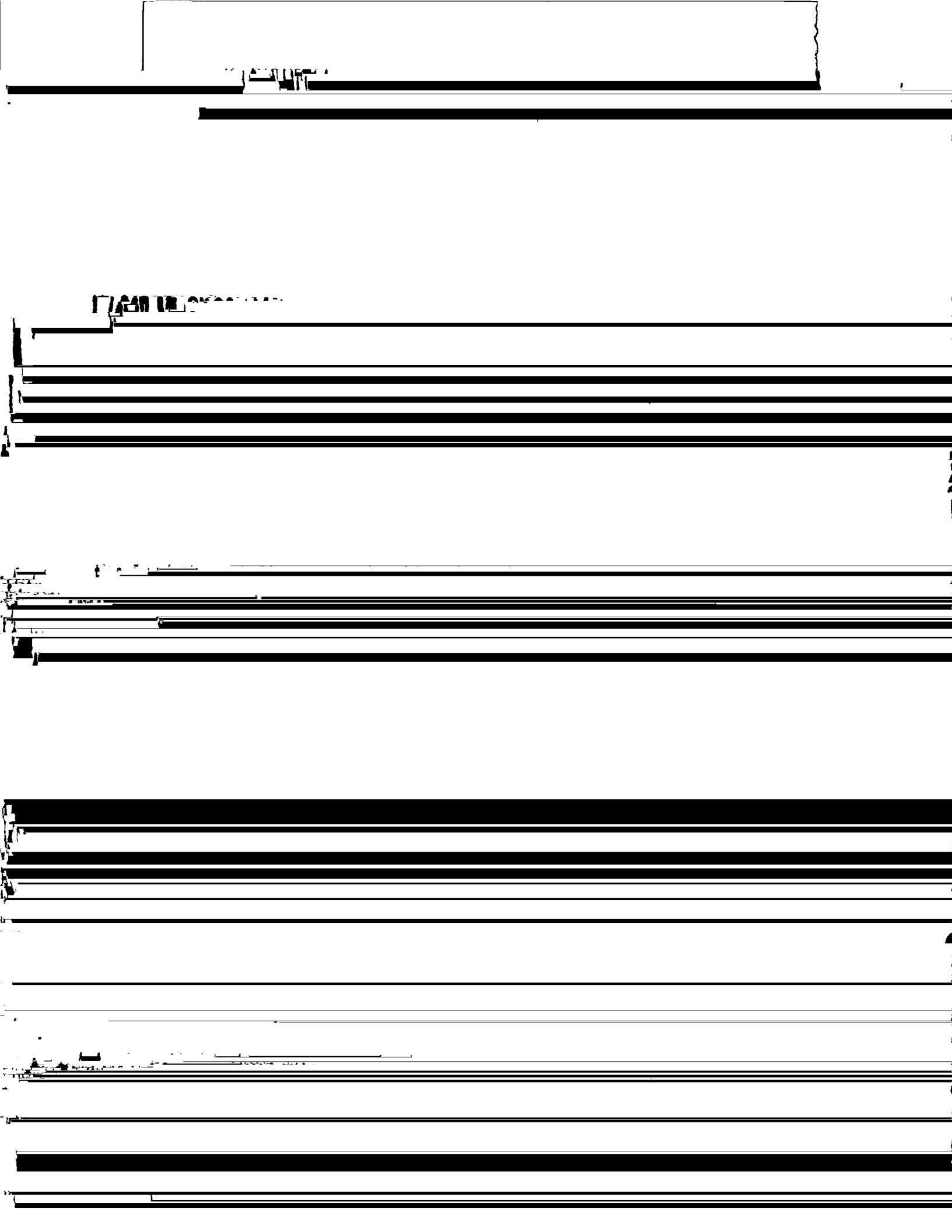
Department Head — M. Paul Roy.

Automotive Mechanics

Instructors — Hugh J. Forrest, Franklin C. Savage

Automotive Mechanics is a course of study designed to prepare the student for a career in the field of automotive repair and servicing. The objectives of the program are to provide a student with the technical background to understand the operation of the modern automobile and to offer experience which will develop skills in the repair and servicing of automobiles and trucks.

This program is presently offered only at the Port Arthur campus and a student may receive a diploma for one year of study or an Associate of Applied Science degree for



Diesel Mechanics

Instructors: James H. Smith, Doyle R. Bice, Jerry W. Campbell.

Diesel Mechanics is a course of study designed to prepare the student for a career in the operation, repair and maintenance of diesel engines.

Objectives of the program are to provide the student with the technical background in the design and construction of diesel engines, and to offer experiences which will develop skills in their operation, repair and maintenance.

A graduate of this two-year instructional program is awarded the Associate of Applied Science degree.

Recommended Program of Study

First Semester		Second Semester	
DM 131—Intro to Diesel Mech	3-0-3	DM 134—Related Sys	3-0-3
DM 132—Diesel Cycle Appl	3-0-3	DM 135—Maint & Repair Prob	3-0-3
DM 136—Basic Shop Proc	0-7-3	DM 138—Tune-up	0-7-3

134 — Related Systems. Engine cooling, air intake systems, exhaust systems, and starting systems. Prerequisite: DM 131 and 132. Class: 3 hours. Credit: 3 semester hours.

135 — Maintenance & Repair Problems. Maintenance and repair problems of the diesel engine. The checking of bearing clearances and the installation of piston rings are

Machine Tools

Instructors: M. Paul Roy, Otto A. Kriegel, Brian K. Tanner.

Machine Tools is a two-year program designed to train students in the proper use of metal-removing machine tools in the modern machine shop. The curriculum is designed to develop those skills, abilities and perceptions needed to permit the graduate to advance in the industrial complex as a competent craftsman.

Objectives of the program include the promotion of desirable attitudes and the development of needed manipulative skills. Students are consistently encouraged to develop a sense of responsibility and self-reliance.

A graduate of this two-year instructional program is awarded the Associate of Applied Science degree.

Recommended Program of Study

132 — Fundamentals of Lathe, Shaper, and Planer. Further consideration of the lathe and its capabilities. Principles and problems of shapers and planers. Survey of carbide,

239 — Machine Design and Maintenance. Maintenance and repair of laboratory machine tools is implemented to expand ability and manipulative skills. Assembly projects which involve several machine tools are promoted. Prerequisite: MT 138 and 139. Laboratory: 7 hours. Credit: 3 semester hours.

Refrigeration and Air Conditioning Technology

Instructors: Ellis Thompson, Ben M. Jarrell.

Refrigeration and Air Conditioning Technology is a two-year program planned to afford the student the skills and knowledge required to install, repair and maintain

REFRIGERATION AND AIR CONDITIONING TECHNOLOGY (RAC)

131 — Basic Refrigeration Principles. The history of refrigeration, theory of heat, compression cycle, metering devices, and components of the refrigeration cycle. Class: 3 hours. Credit: 3 semester hours.

refrigerant piping data, steam lines, electrical data and tools of the estimator. Prerequisite: RAC 231 and 232. Class: 3 hours. Credit: 3 semester hours.

236 — Forced Air Heating and Cooling. Skills in the correct use of instruments, fitting and installing ducts, service of limit switches, fan controls, blowers and filters. Setting and checking oil failure switches. Prerequisite: RAC 138 and 139. Laboratory: 7 hours. Credit: 3 semester hours.

237 — Air Cooled Heating and Cooling Systems. Installation and service of residential and commercial cooling and heating

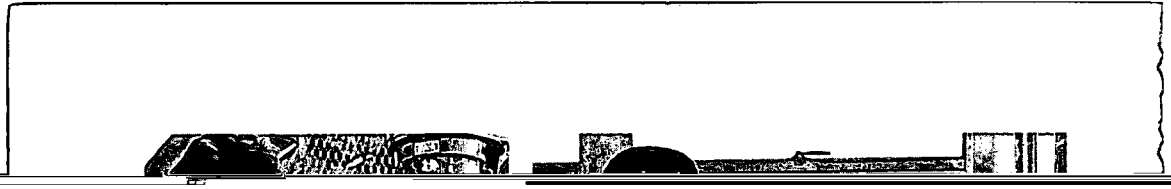
Third Semester

Wld 231—Ferrous & Nonferrous
Metals 3-0-3

Fourth Semester

Wld 234—Special Wld Appl 3-0-3
Wld 235—Metals & Heat Treatment 3-0-3

233 — Advanced Metallurgy. A study of the effects of heat on the exotic metals. Specific application of metals is also covered. A study of corrosion, machining, and



Related Arts Department

[redacted]

231 — Technical Writing. A study of the techniques of technical writing and its application to the individual student's major field. Prerequisite: Students must have taken BC 131 and 132 or its academic equivalent. Class: 3 hours. Credit: 3 semester hours.

JOB RELATIONS (JR)

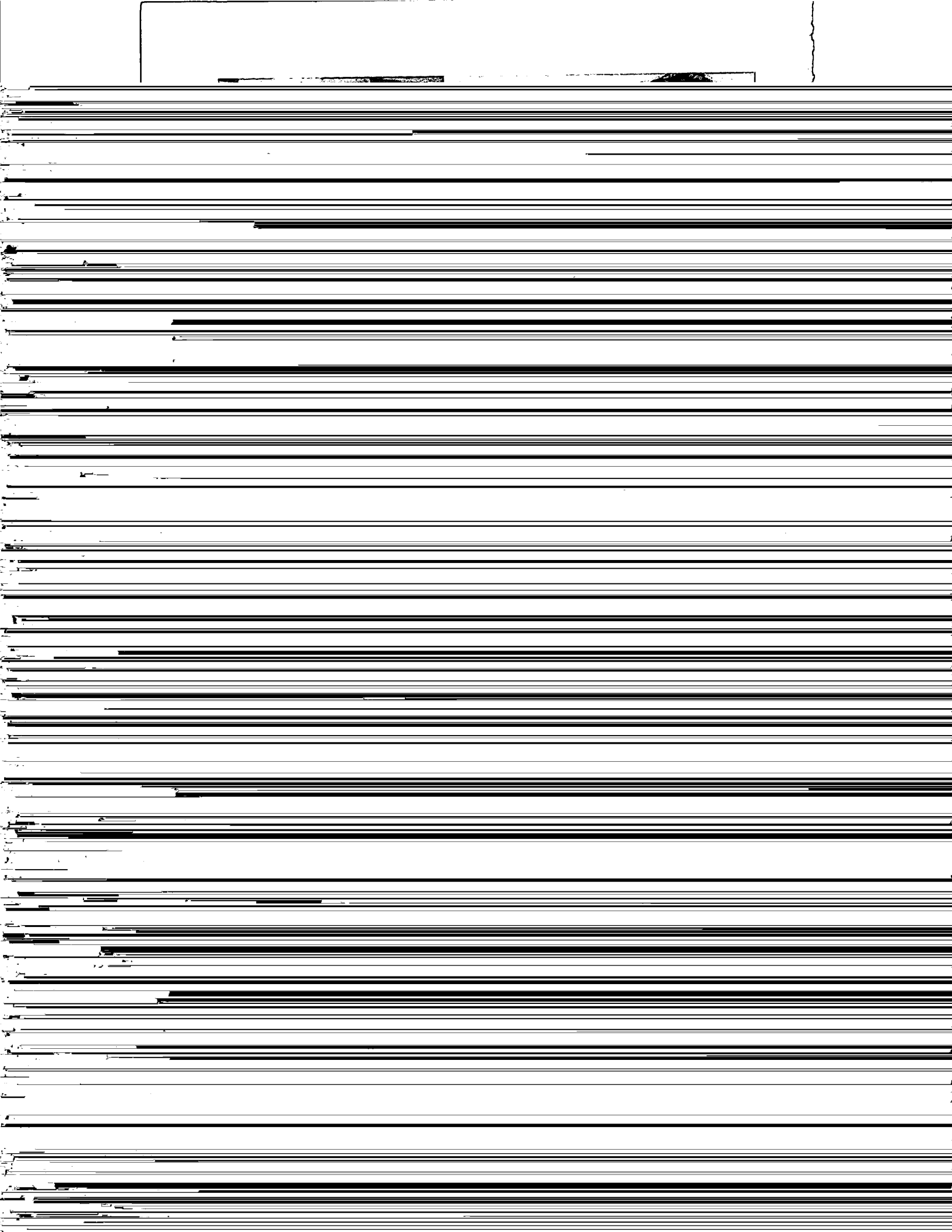
231 — Job Relations. The purpose of this course is to present and analyze the roles of the worker and management. Included in the course will be a presentation of labor-management relations, the evolution and growth of the American labor movement, the development and structure of American business, communicative channels, state and federal legislation that affects the worker and management, and personnel problems encountered in association with employers and employees. Class: 3 hours. Credit: 3 semester hours.

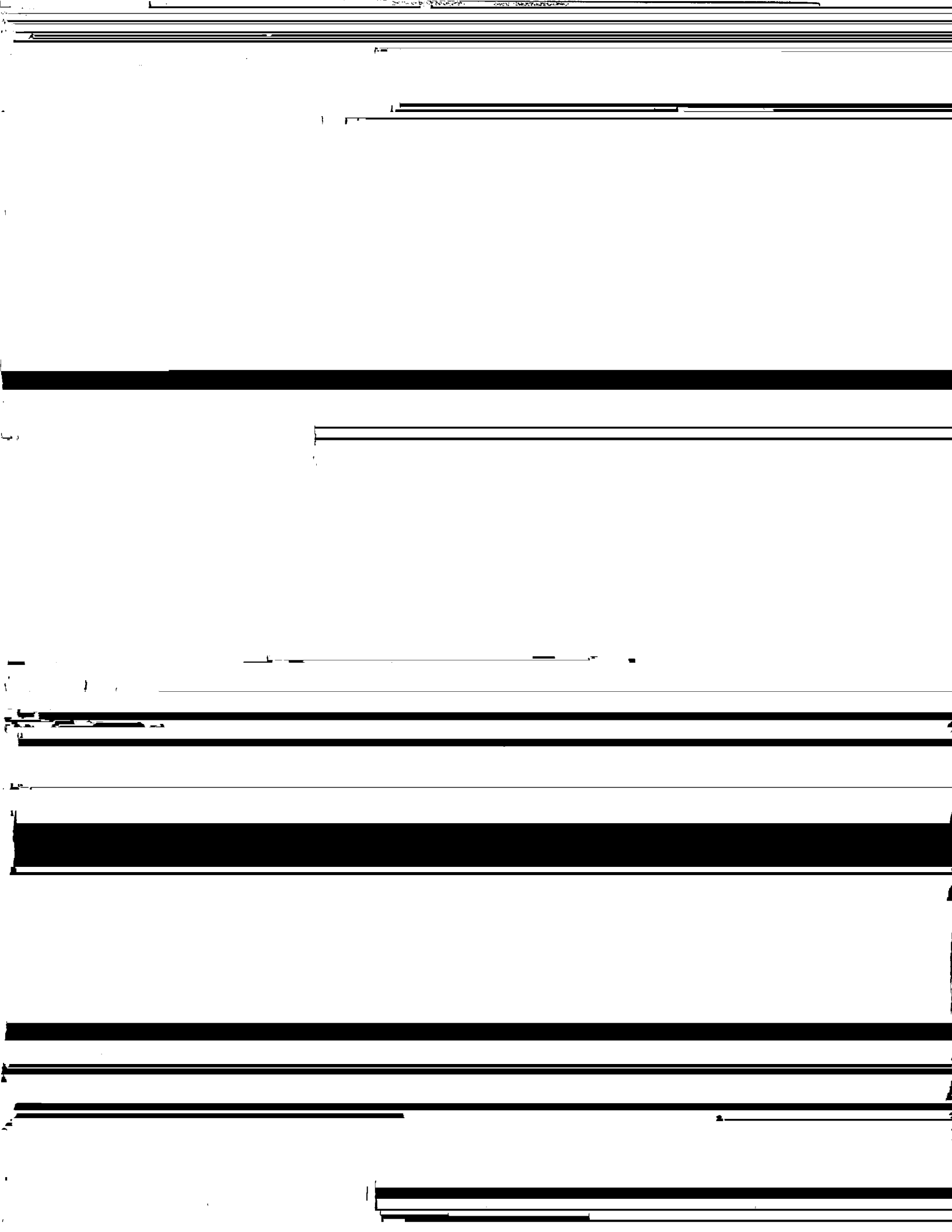
232 — Human Relations. The purpose of this course is to survey the social sciences that help explain human behavior and motivation. This course will include such topics as: maturation, deviant behavior, cultural and social problems, and interpersonal relationships in the job situation. These topics are designed to help individuals better

Real Estate

Instructor: Alice W. Cater.

The program of study is designed to prepare a student to enter the real estate industry in the fields of real estate sales, appraising, brokerage, finance, development, investment and management. It is planned for those entering the real estate industry, as well as for those who wish to expand their professional knowledge. These courses may be taken to satisfy the educational requirements of the Texas Real Estate Commission for





BUSINESS DATA PROCESSING (BDP)

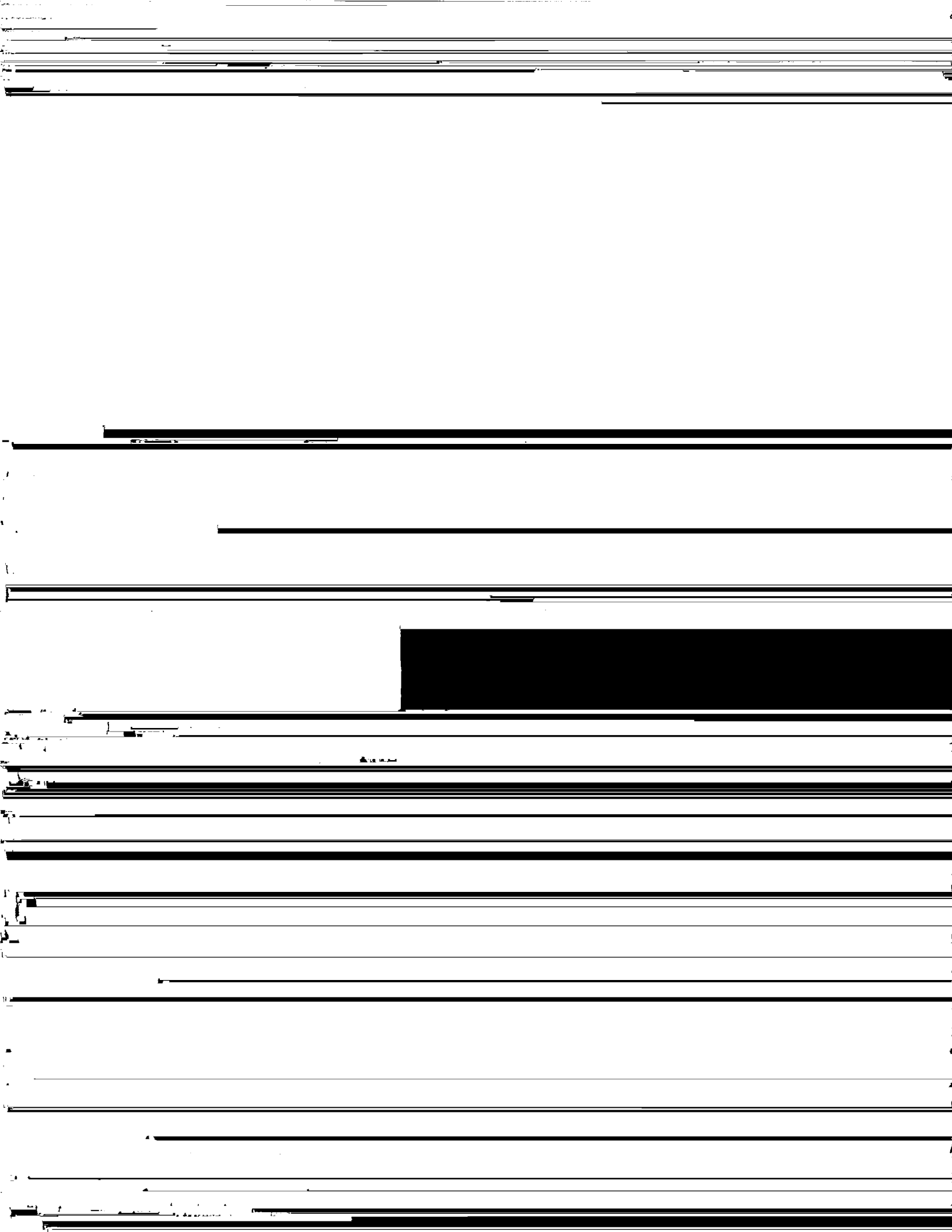
131 — Elementary Accounting. Double-entry accounting practices and procedures applied to special journals, working papers, subsidiary records, and the preparation of financial statements for a sole proprietorship with an introduction to partnerships. Class: 3 hours. Credit: 3 semester hours.

133 — Introduction to Business Data Processing. A survey of data processing from its beginning. Introduction to internal data representation, file concepts, record layouts,

136 — Basic Drafting Laboratory I. This is the first in a series of four courses in the use of drafting instruments, freehand and mechanical lettering, conventional signs and symbols, orthographic projection and pictorial drawing. This is a comprehensive laboratory course in basic drafting procedures and skills and is planned as a preparation for the three succeeding courses which will provide practice in the skills required in specialized types of drafting. Laboratory: 6 hours. Credit: 3 semester hours.

137 — Basic Drafting Laboratory II. This course is a continuation of Dft 136. Laboratory: 6 hours. Credit: 3 semester hours.

138 — Architectural Drafting Laboratory I. Drafting of plans for construction in



Third Semester Fourth Semester

FIRE PROTECTION TECHNOLOGY (FT)

131 — Fundamentals of Fire Protection. History and philosophy of fire protection; review of statistics of loss of life and property by fire; introduction to agencies involved

233 — Hazardous Materials I. Study of chemical characteristics and behavior of various materials that burn or react violently related to storage, transportation, handling hazardous materials, i.e., flammable liquids, combustible solids, and gases. Emphasis on emergency situations and most favorable methods of handling fire fighting and control. Class: 3 hours. Credit: 3 semester hours.

234 — Fire Administration II. Study to include insurance rates and ratings, preparation of budgets, administration and organization of training in the fire department; city

Industrial Electricity and Electronics Technology

Instructors: Tarlton J. Daigle, Robert J. Lawrence, Lenox L. Sigler, Eugene G. Broussard, Marvin H. Hogan, Jerry L. Wilson.

This program is designed to provide the student with an opportunity to develop the necessary skills involved in the repair and maintenance of industrial electrical and electronics equipment.

The objective of this program is to develop an understanding of the underlying theories, technical information, safety factors and related occupational information to assure sound judgments and proper procedures needed for an electronics technician trainee. Graduates will be prepared to enter one of the many specialized fields associated with the electronics trade.

A graduate of this two-year instructional program is awarded the Associate of Applied Science degree. This program is offered at the Beaumont campus.

Recommended Program of Study:

132 — AC Theory. Electromagnetism, generation and characteristics of alternating voltage and current, inductance transformers, inductive reactance capacitance, and capacitive reactance. Prerequisite: Credit for or registration in IEE 131. Class: 3 hours. Credit: 3 semester hours.

133— Basic Electricity. Introduction to the field of electricity and electronics. Class: 3 hours. Credit: 3 semester hours.

134— AC and DC Circuit Analysis. Complex numbers for AC circuits, simple RL and RC circuits, series and parallel RLC circuits, series and parallel resonance, and network theorems. Prerequisite: IEE 132. Class: 3 hours. Credit: 3 semester hours.

135 — Vacuum Tube Amplifiers. Principles and characteristics of vacuum tubes

course. Prerequisite: Credit for or registration in IEE 234. Class: 3 hours. Credit: 3 semester hours.

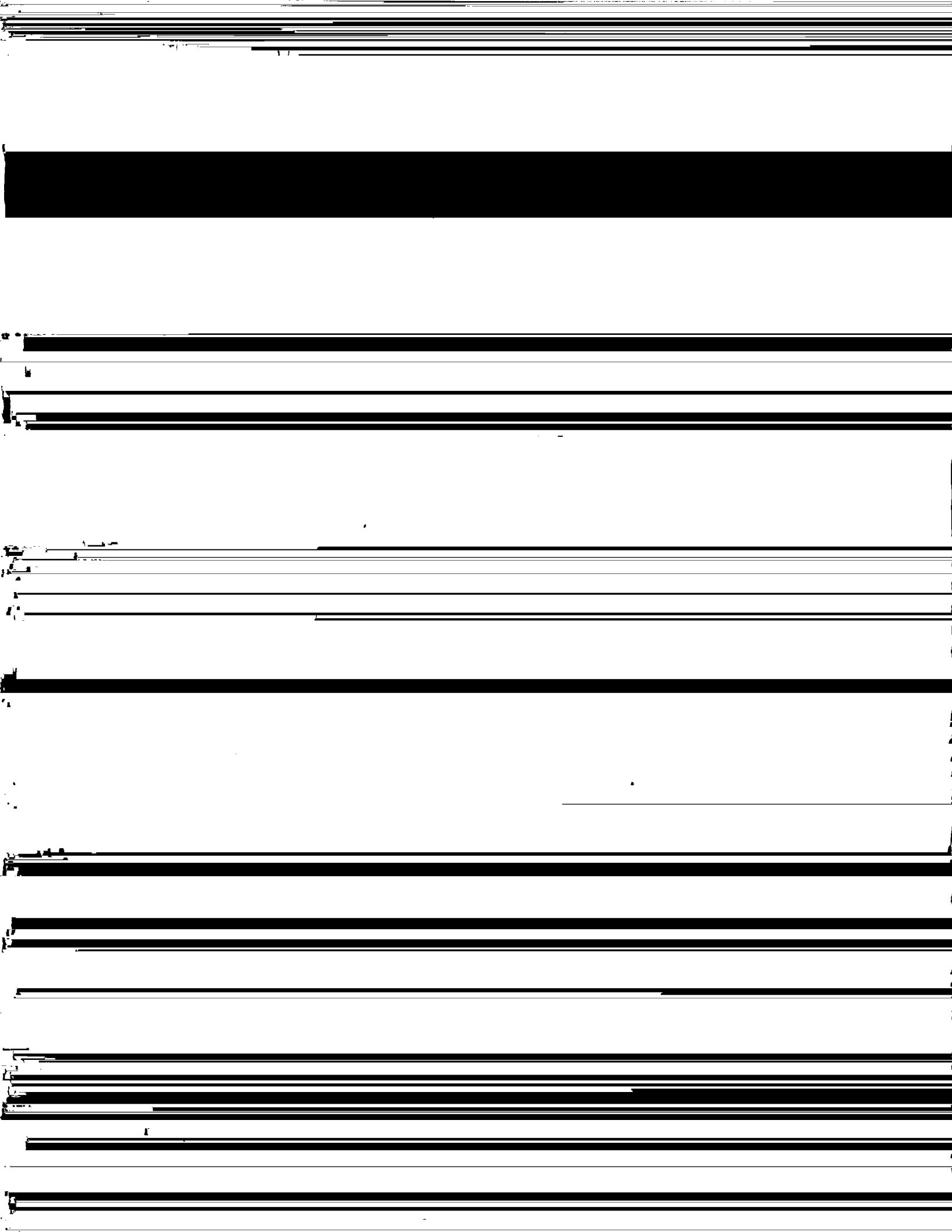
236 — Solid State Devices I. Laboratory experiments in the characteristics of solid state devices, transistor familiarization, and basic transistor circuit arrangement. Prerequisite: IEE 139. Laboratory: 6 hours. Credit: 3 semester hours.

237 — Solid State Devices II. Laboratory experiements in the construction of solid state circuitry, audio voltage and power amplifiers, oscillators, SCR rectifiers, and transistorized cathode ray oscilloscopes. Prerequisite: Credit for or registration in IEE 236. Laboratory: 6 hours. Credit: 3 semester hours.

238 — Digital Logic Laboratory I. Laboratory experiments designed to give a thorough basic knowledge of the various types of TTL devices. Prerequisite: IEE 237.

2331 — Medical Instrumentation I. A study of instruments used in the medical profession, such as Burdick EK-2 and EK-5 Electrocardiograph, LGDD Lifeguard monitor, cardioscope and heart rate meter. Electrodyne PM 65S, Pacemaker-alarm-monitor and three inch Electrocardioscope. Prerequisite: IEE 135 and IEE 230. Class: 3 hours. Credit: 3 semester hours.

2332 — Medical Instrumentation II. A study of the Hewlett-Packard Electromyo-



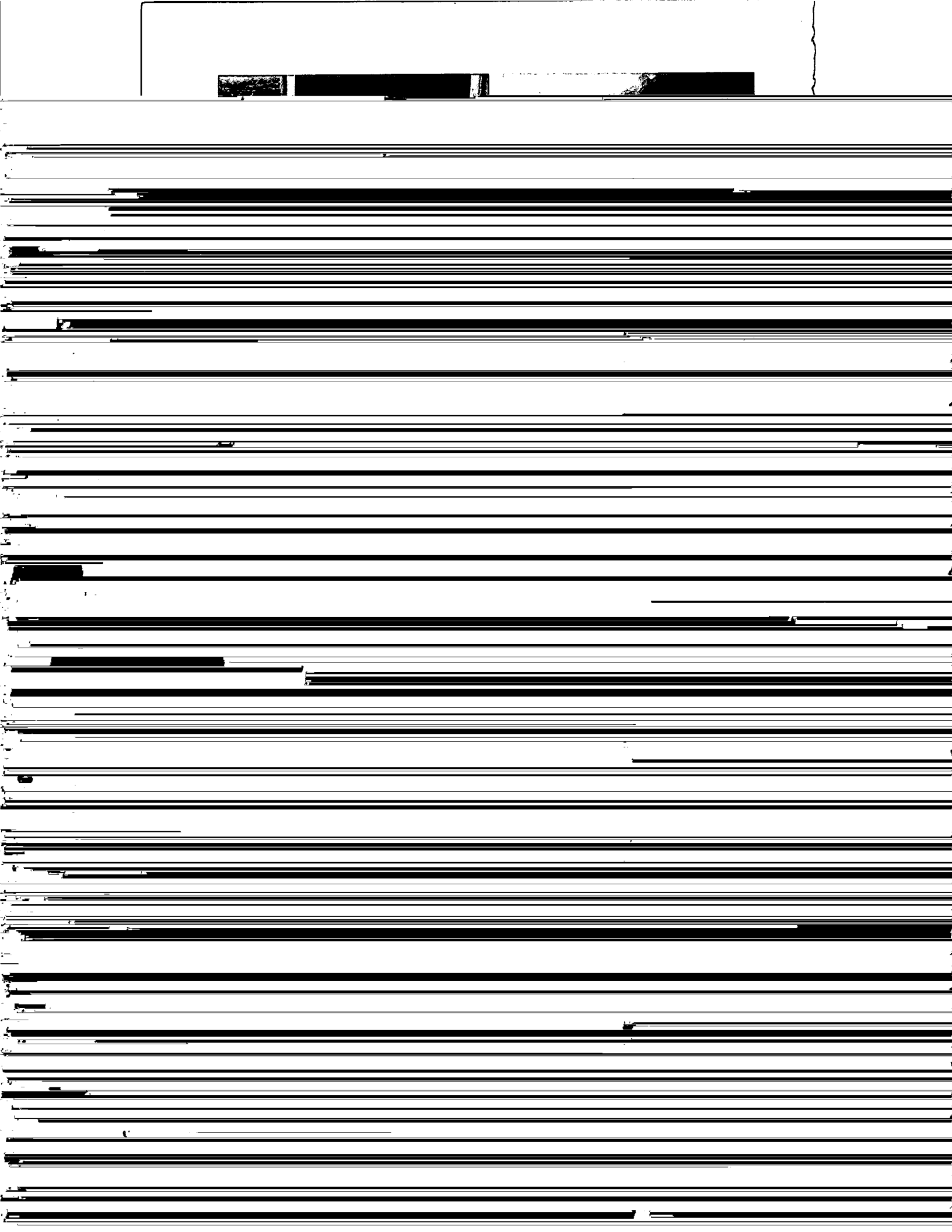
Recommended Program of Study

Accounting Clerk (Orange)

First Semester		Second Semester	
OO 141—Beginning Typing	3-3-4	OO 131—Bus Machines	0-3-3
OO 133—Elementary Acct	3-0-3	OO 135—Bus Legal Procedures	3-0-3
BC 131—Basic Comm or Eng Comp (Eng Dept)	3-0-3	OA 123—Intermediate Typing	1-2-2
MM 131—Intro to Business	3-0-3	OO 137—Partnership and Corporate Acct	3-0-3
TM 134—Bus Mathematics or		BC 132—Bus Comm or Eng Comp	

Recommended Program of Study

Clerical (Orange)



[redacted]

143 — Cosmetology III. Shaping of nails, nail styling and cosmetics that apply,

supervisory responsibilities. Each class meeting is carefully planned to be of maximum

Marine Construction

132 — Liquid Piping Systems— A study of the piping schemes used in ship construction

PLANT MAINTENANCE AND OPERATIONS (PM)

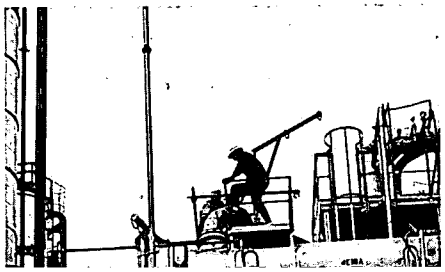
1311 — Compressors. The application, operation and maintenance of air and gas compressors, proper installation and power requirements. Class: 3 hours. Credit: 3 semester hours.

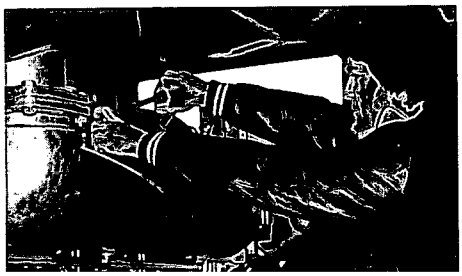
1312 — Pumps. The application, care and operation of centrifugal rotary and recip-

1326 — Electrical Generation. Study of the operation and maintenance of electrical generators and the drive mechanisms utilized in industrial and public utility applications. Class: 3 hours. Credit: 3 semester hours.

1327 — Boiler Operation. Start-up and shut-down procedures, routine operation, boiler instrumentation, fueling and water requirements of the boiler and auxiliary equipment are topics to be discussed in this course. Class: 3 hours. Credit: 3 semester hours.

1328 — Marine Blueprint Reading. A study of marine and shipbuilding blueprints, and the symbols and conventions relating to them. The course also includes a study of A.I.S.C. standards and specifications. Class: 3 hours. Credit: 3 semester hours.





Continuing Education

Director — Joseph Reho. *Coordinators* — Jack Hill, James D. Spencer.

CONTINUING EDUCATION

Continuing Education has specific reference to education and training programs designed to serve interests and needs of an adult population. The program accepts adults of all levels of academic achievement. It seeks to provide participants with in-

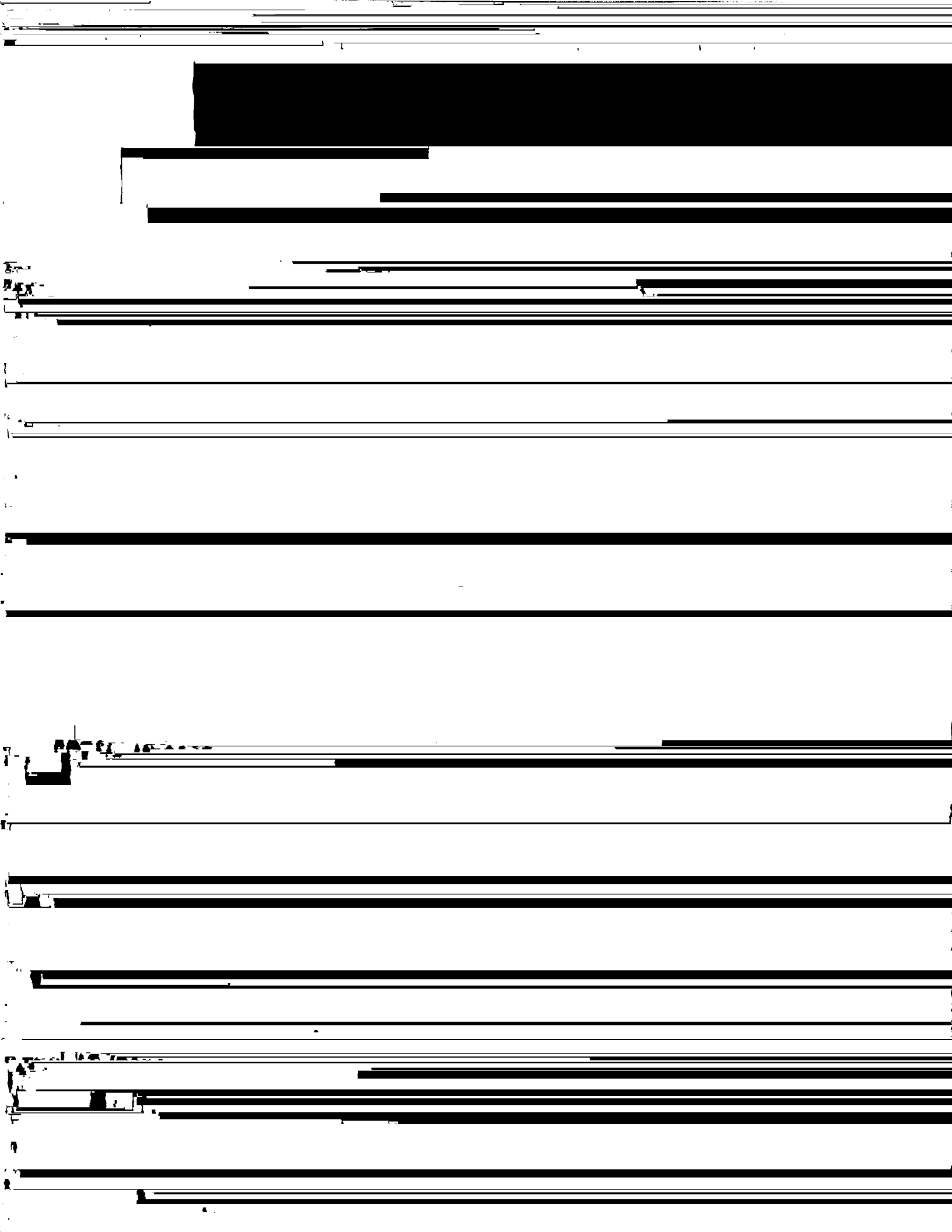
Cummins Diesel Engine Workshop. Representatives of the Cummins Diesel Company conduct this workshop to inform interested persons about the latest improvements made in the company's engines.

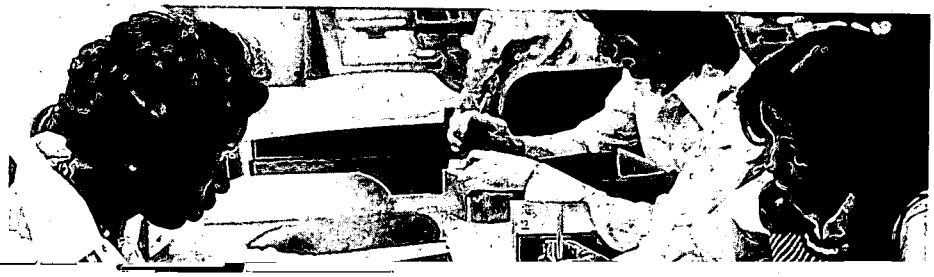
[redacted] Representatives of the Detroit Diesel Corporation

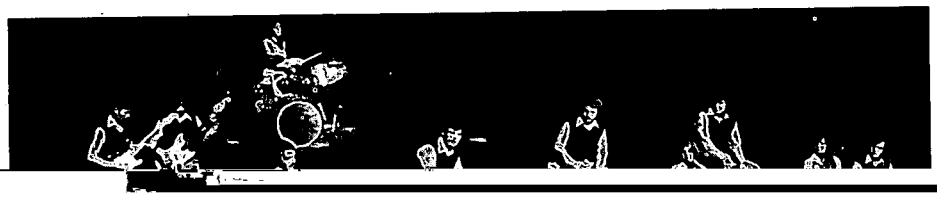
SPECIAL TRAINING ACTIVITIES

The objective of these activities is to provide training to meet the requirements for certification of licensing by various state agencies and associations. In addition, these courses are intended to meet special training needs of businesses and industries and can be conducted at plant sites. The length of the programs varies from a few weeks to a few years.

What Is a Technician?







INDEX