



# Lamar University

1974-75 College of Technical Arts Bulletin VOL. 24 NO. 4 MARCH 1974
TWENTIETH ANNUAL CATALOG ISSUE

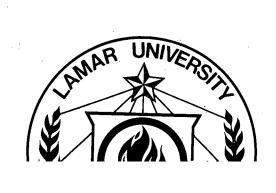
With Announcements for 1974-75

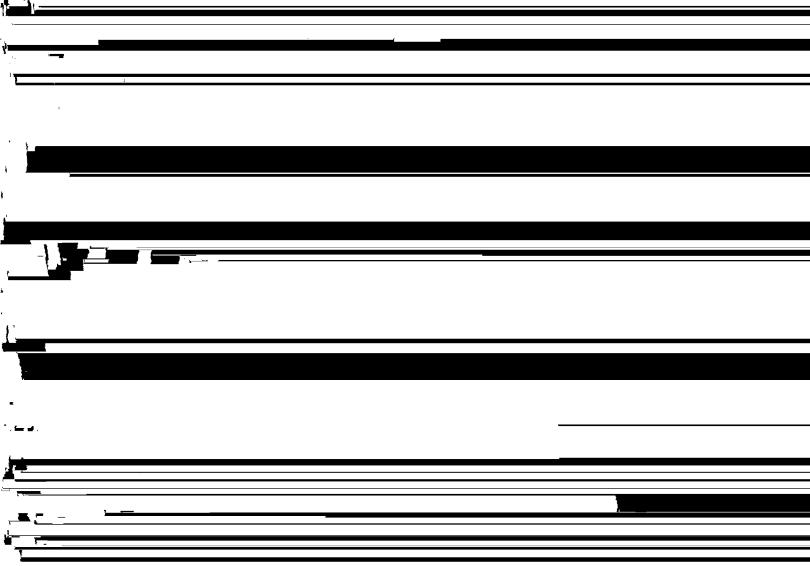
Founded in 1923, and established as a four-year coeducational state-supported college on September 1, 1951.

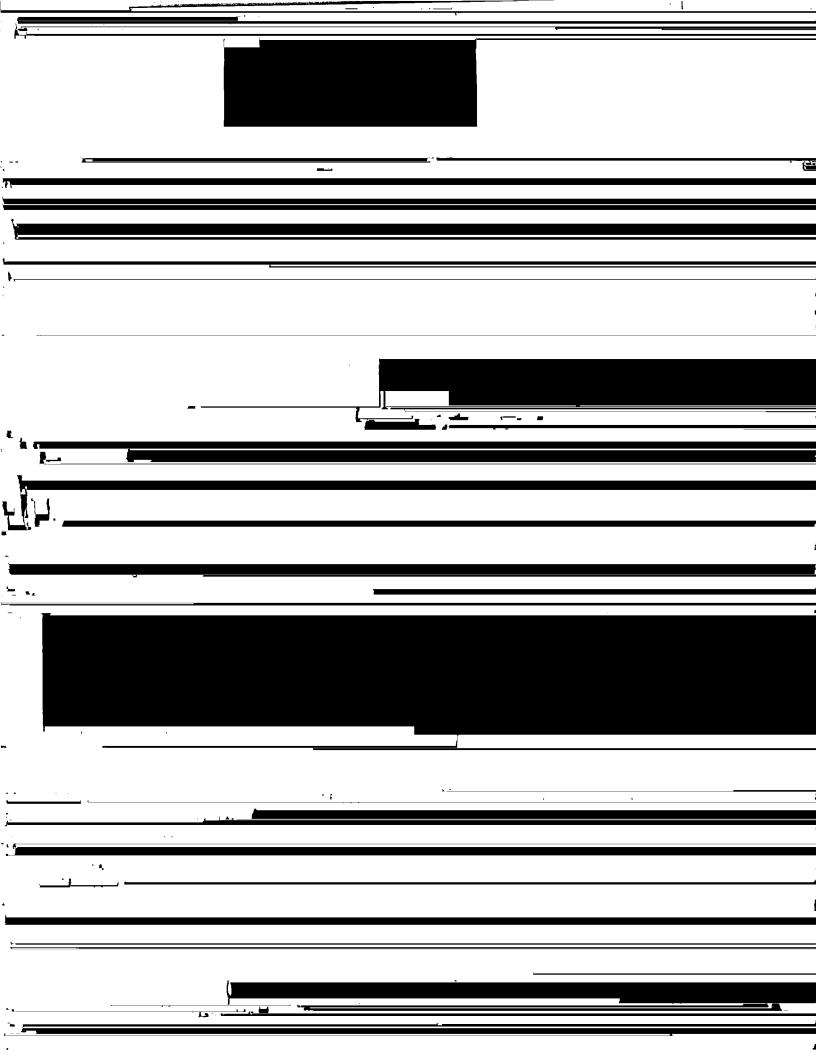
The courses, tuition and fees and all other conditions and policies set forth in this catalog issue shall be subject to change without notification.

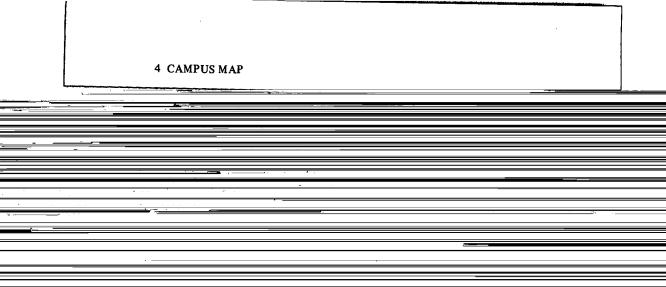
Lamar University is an equal opportunity/affirmative action educational institution and employer. Students, faculty and staff members are selected without regard to their race, color, creed, sex, or national origin, consistent with the Assurance of Compliance with Title VI of the Civil Rights Act of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

the Lamar Tevas Published by Lamar











## 1974-75 Calendar

FALL SEMESTER AUGUST 1974



SPRING SEMESTER
JANUARY 1975

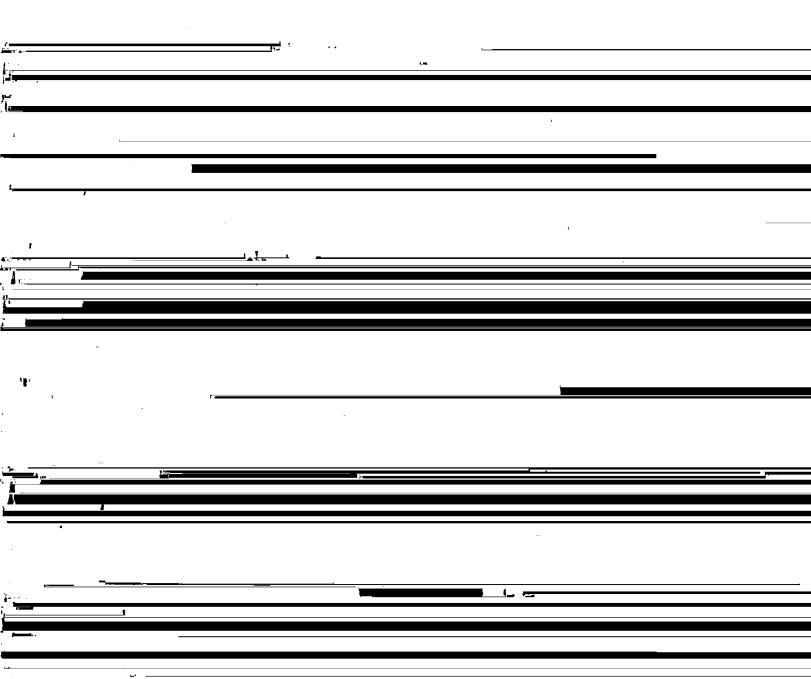
### SUMMER SESSION

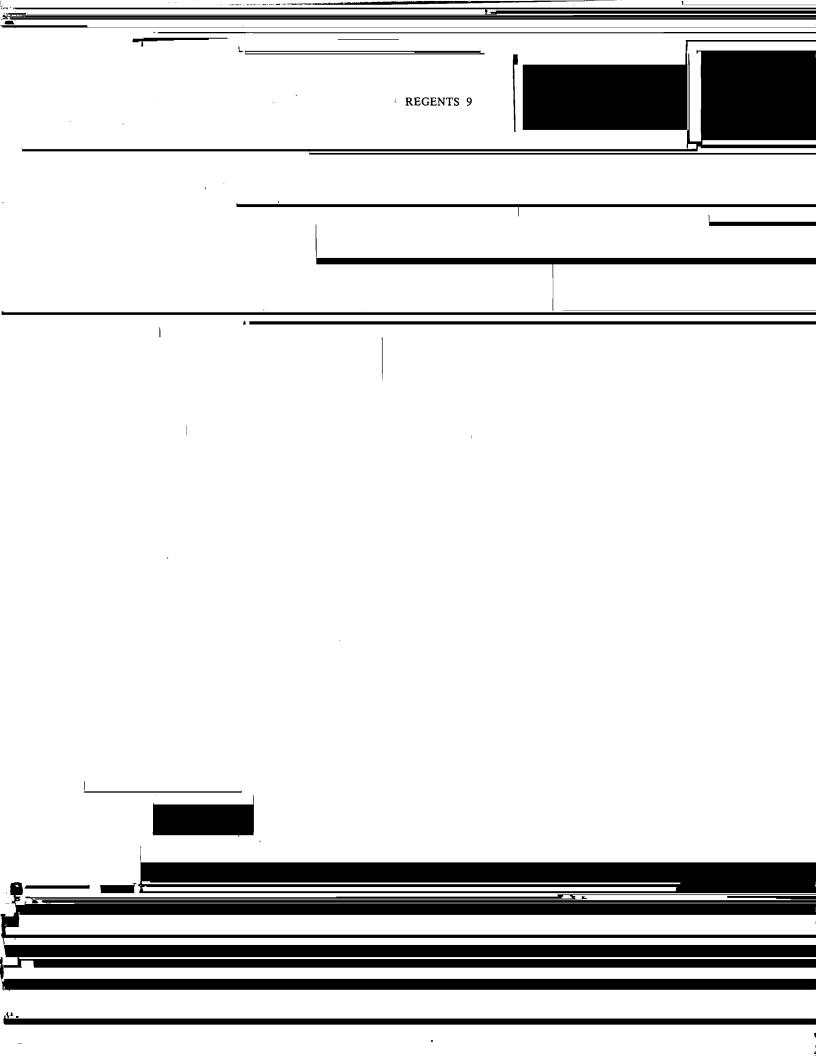
### JUNE

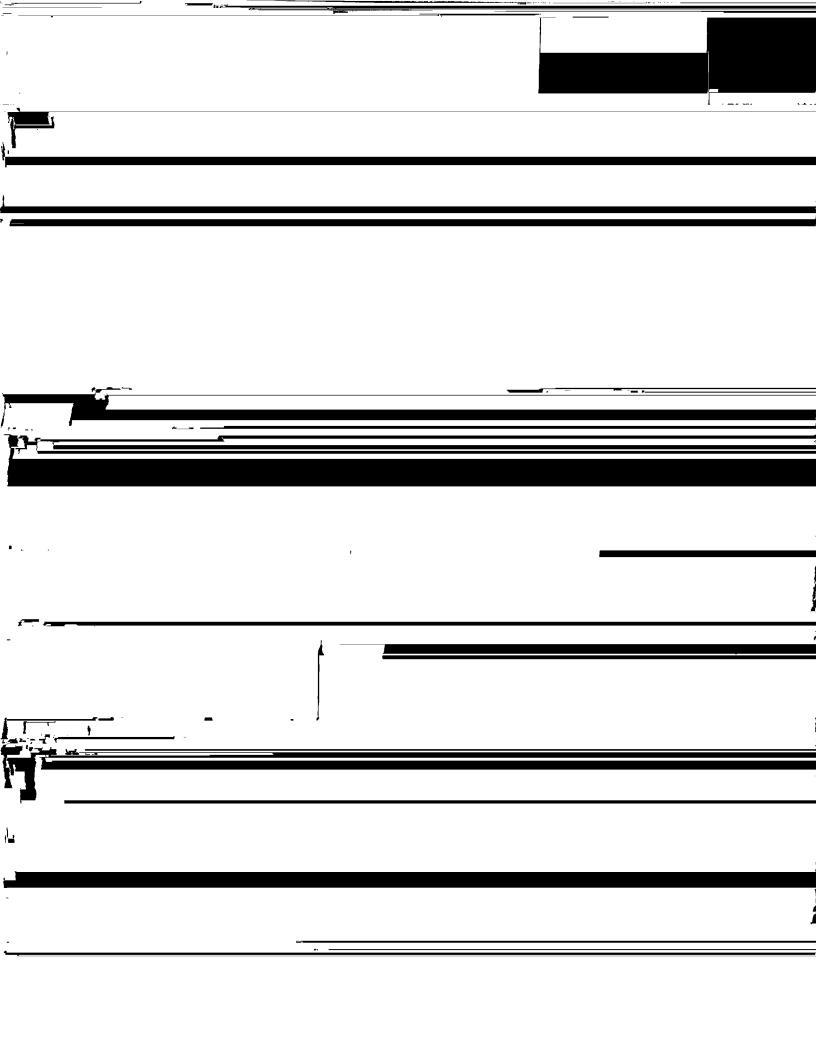
- 1 Limited operation of dormitories.
- Dining halls open. Registration.
- 3 Classes begin at 8 a.m. No Adds/Drops.
- 4 Last date for registration or for adding courses.
- 5 Fourth class day.
- 17 Last date for dropping courses or for withdrawing without penalty.
- 24 Last date of approval for August graduation. (First term students.)

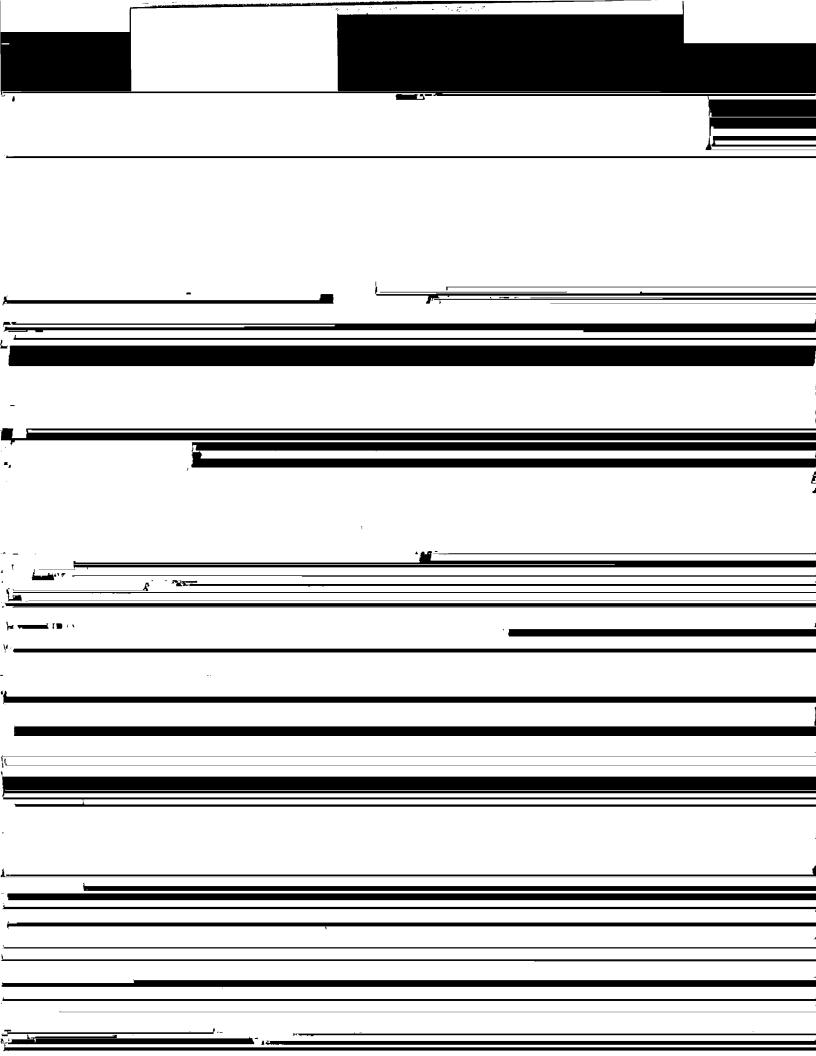
### JULY

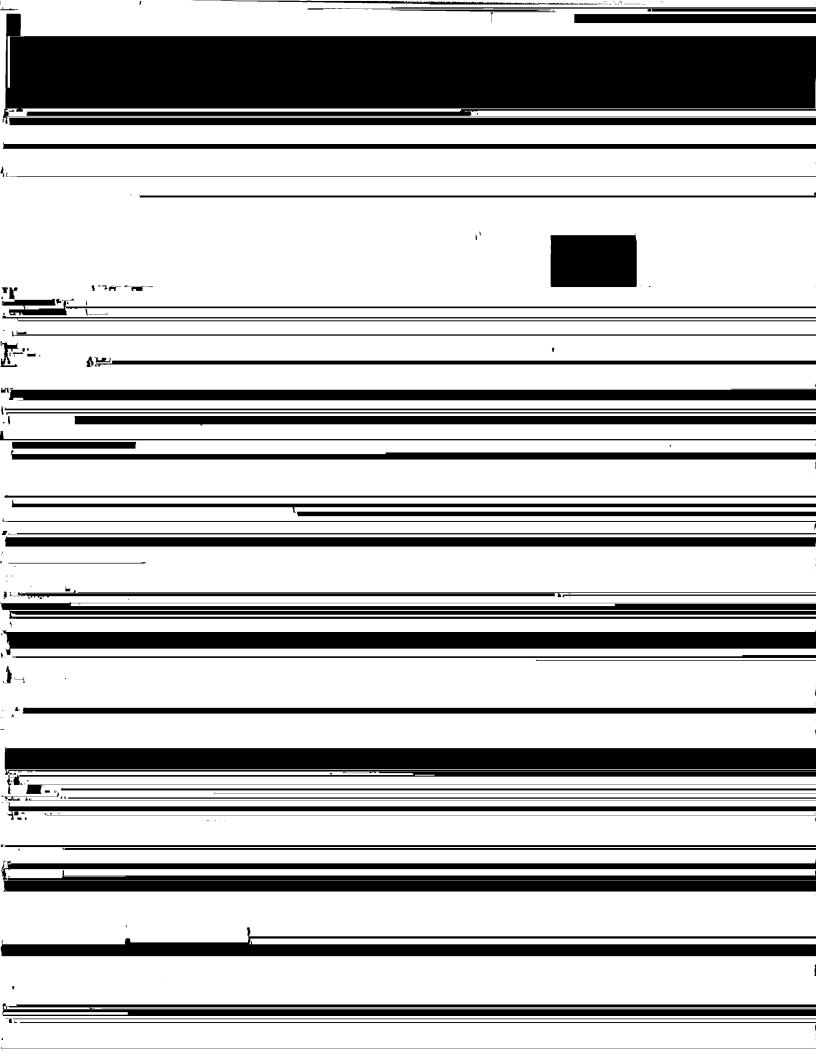
3 Last day for dropping courses or for











### FACULTY 13

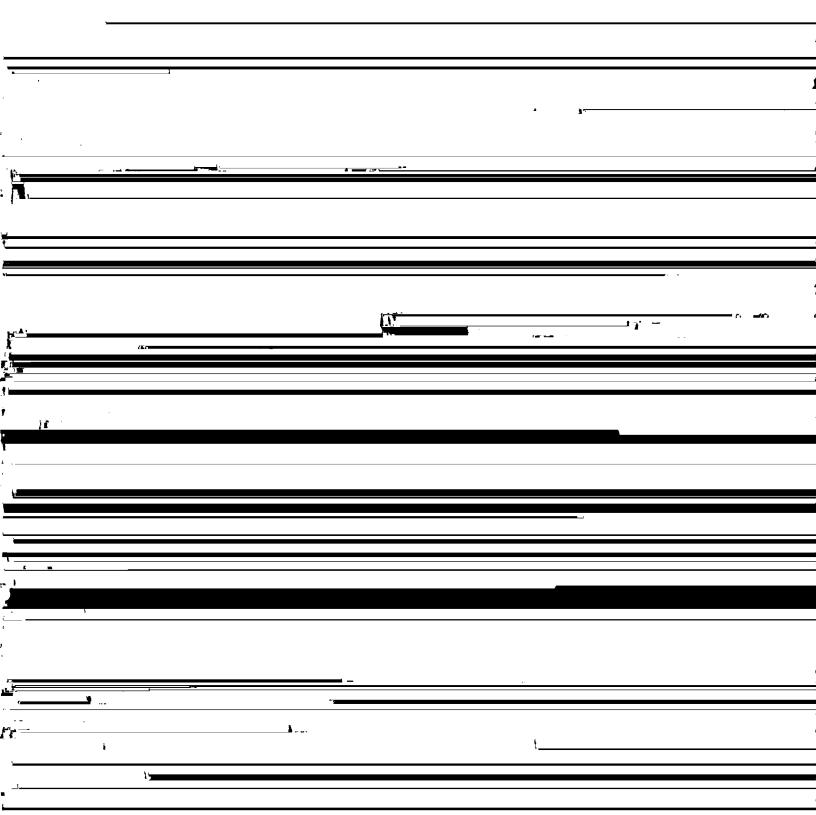
LENOX L. SIGLER, Instructor II of Industrial Electricity and Electronics Technology, 1965, 1970

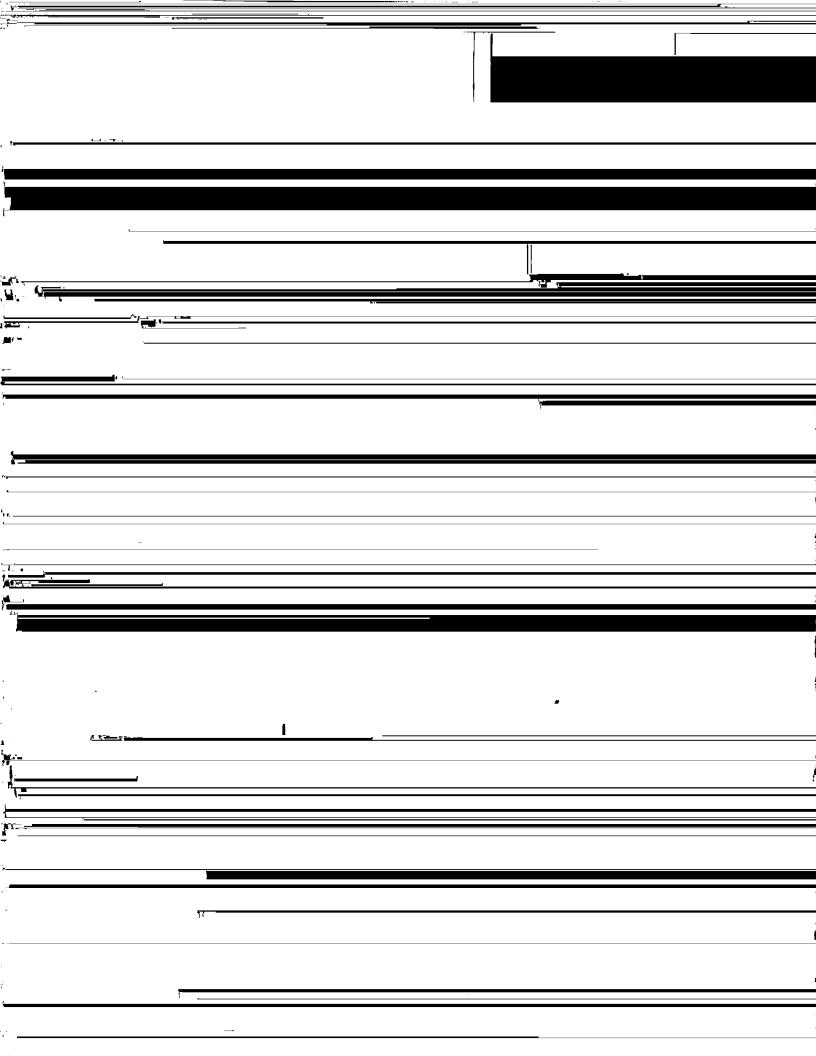
JAMES H. SMITH, Instructor II of Diesel Mechanics, 1968, 1973 A.A.S., Lamar University

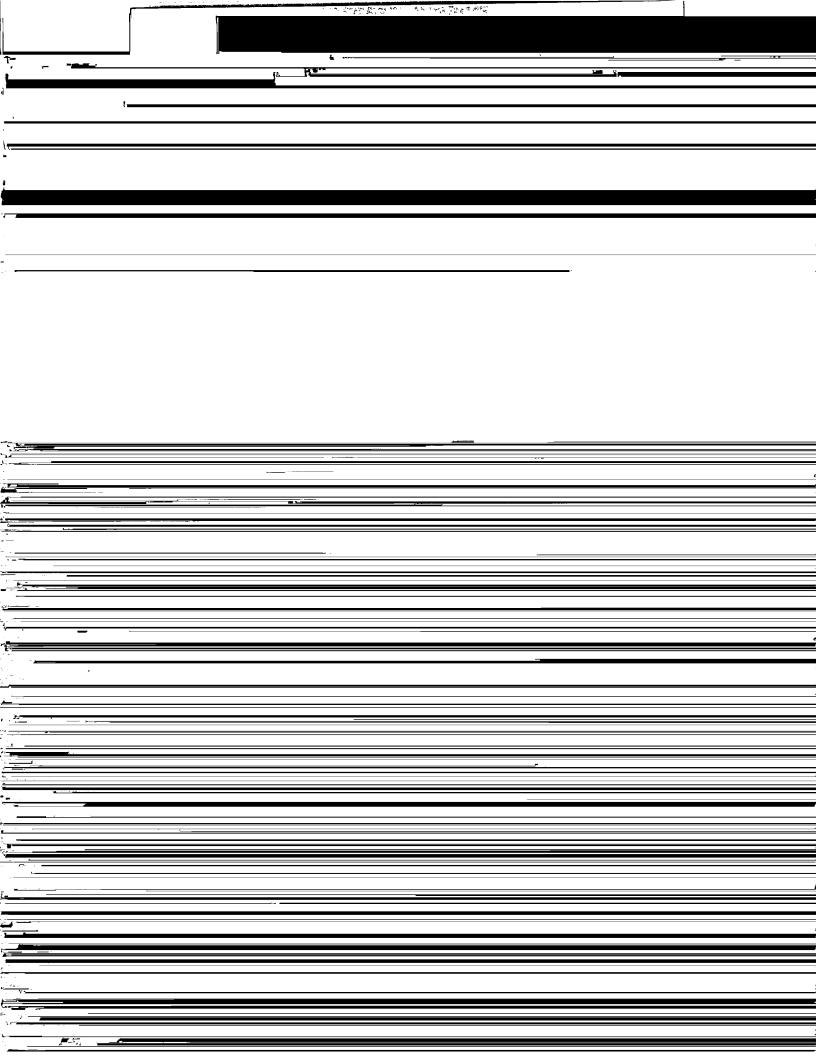
MAX K. SNIFFEN, Instructor II of Mid-Management, 1972 B.S., B.A., Ohio State University M.B.A., Lamar University

JAMES D. SPENCER, Coordinator of Continuing Education, 1970 B.S., M.Ed., Texas A&M University

DEANNA V STAHI Instructor II of Technical Mathematics, 1972







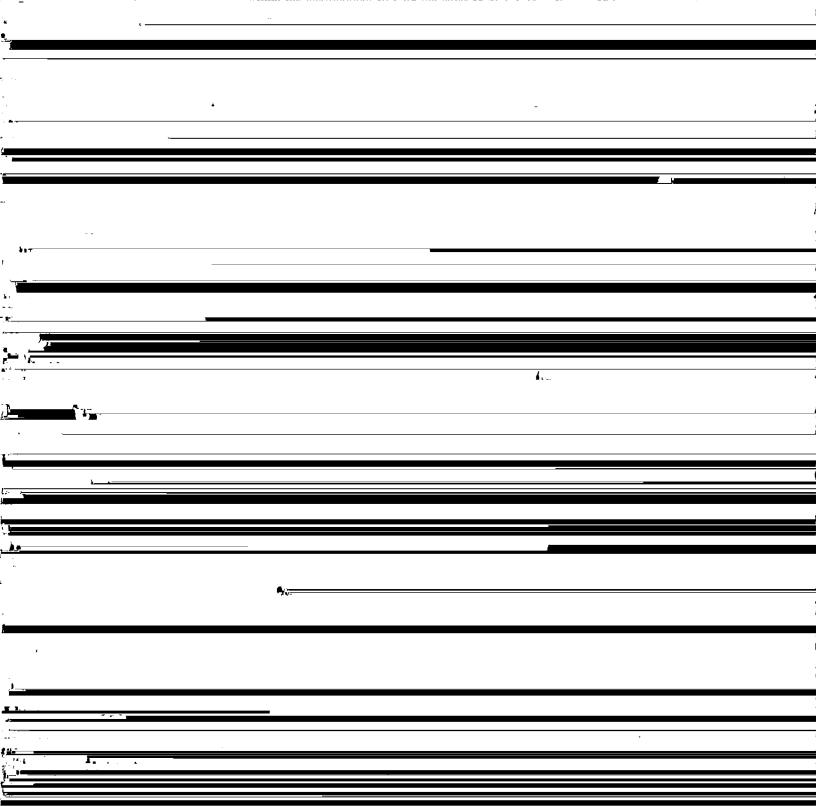
## General Information

### **LOCATION**

Lamar University, a state-supported institution, is located in Beaumont, the center of industrial Southeast Texas. The campus is adjacent to the Port Arthur Highway (Spur 380) in southeastern Beaumont.

The city features modern schools, churches and shopping districts to serve the industrial community of approximately 120,000 persons. Principal industries in the area are oil refining, shipping, shipbuilding, rubber manufacturing and chemical production. Surrounding the urban communities are ranches and rice farms.

Within the metronolitan area are the cities of D. . . .



#### **GENERAL INFORMATION 17**

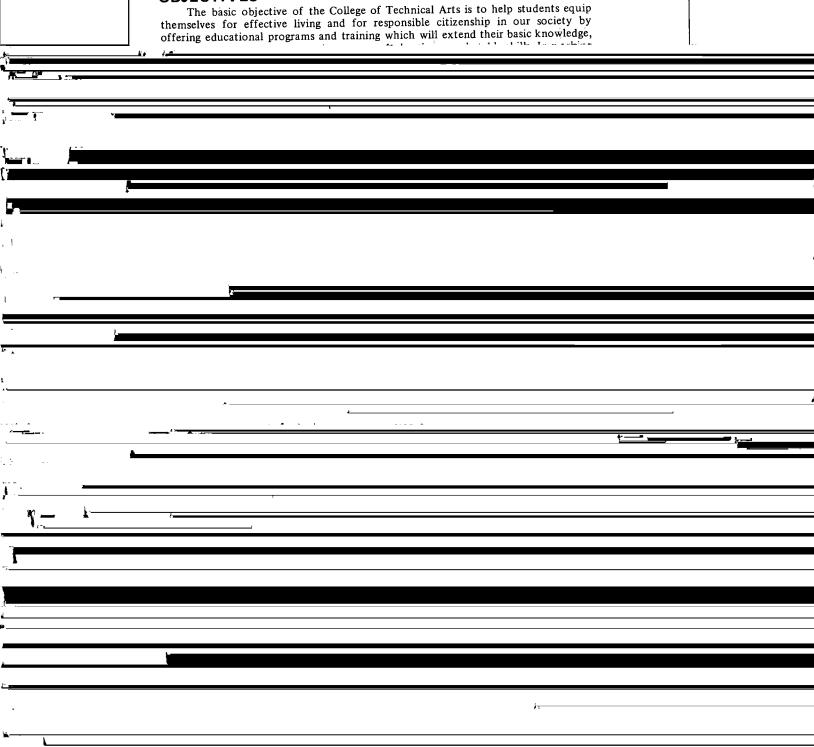
### **ACCREDITATION**

Lamar University is accredited by the Association of Texas Colleges and Universities and the Southern Association of Colleges and Schools. It is approved by the Texas Education Agnecy and for the training of Veterans under all classifications.

Several departments have been accredited by professional agencies. In the College of Engineering, the departments of Chemical, Civil, Electrical, Industrial and Mechanical Engineering are accredited by the Engineers' Council for Professional Development. Other accreditations include the Department of Chemistry by the American Chemical Society; Department of Music by the National Association of Schools of Music; and the Departments of Elementary and Secondary Education by the National Council for the Accreditation of Teacher Education.

The University also is a member of a number of academic councils, societies, associations and other such organizations.

### **OBJECTIVES**

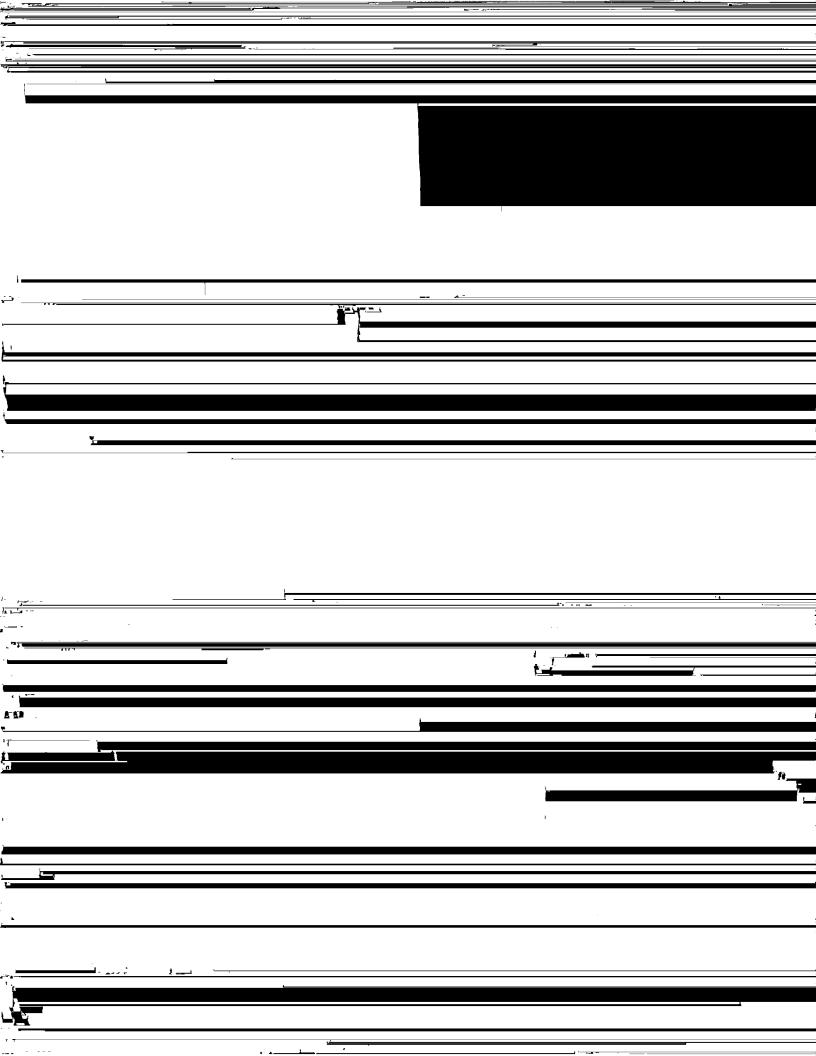


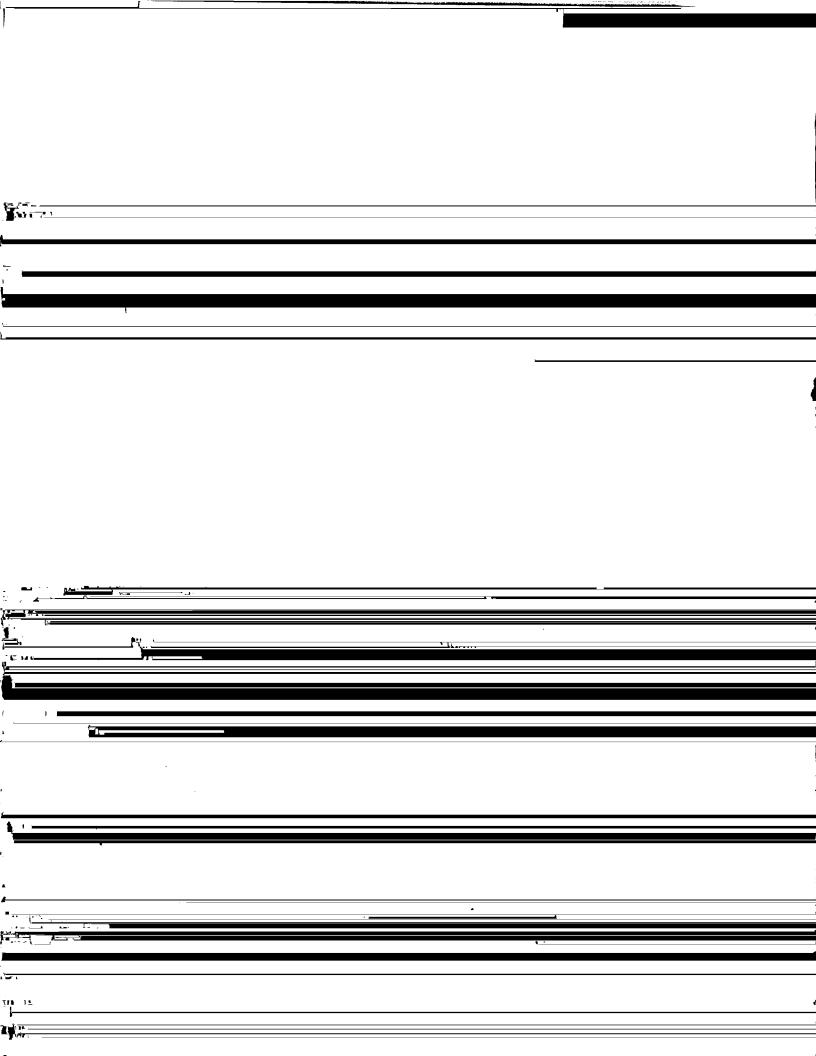
18 GENERAL INFORMATION

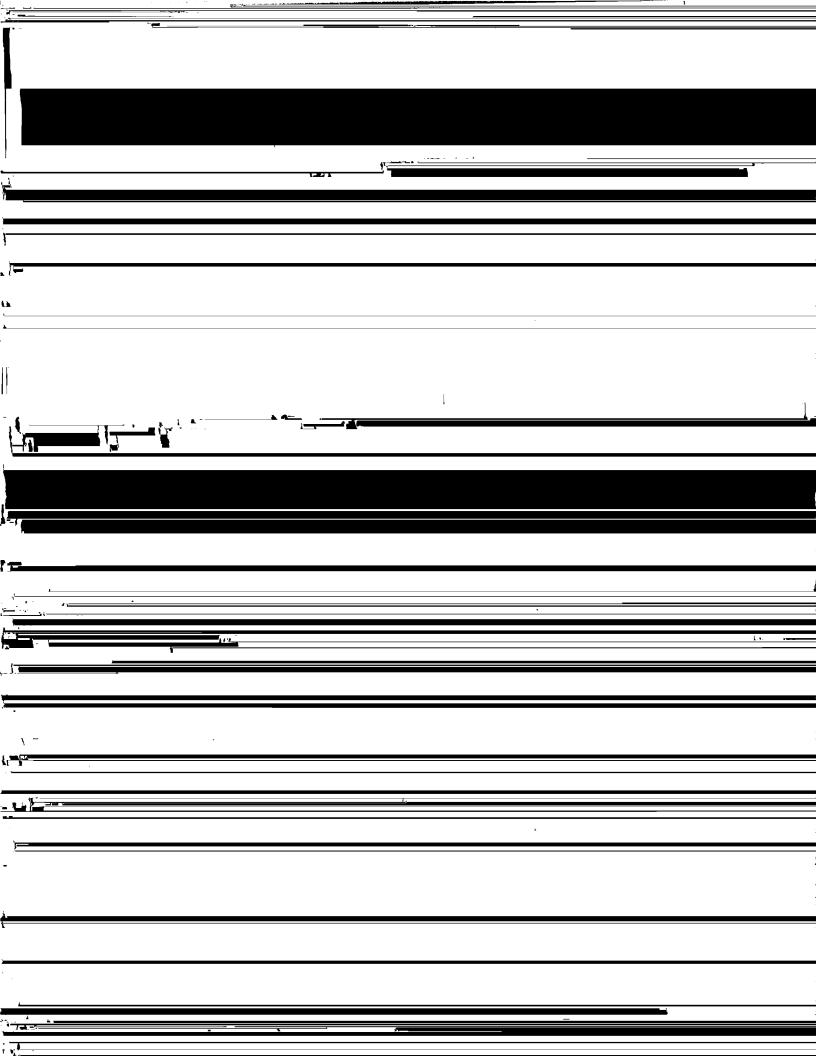
### **Facilities**

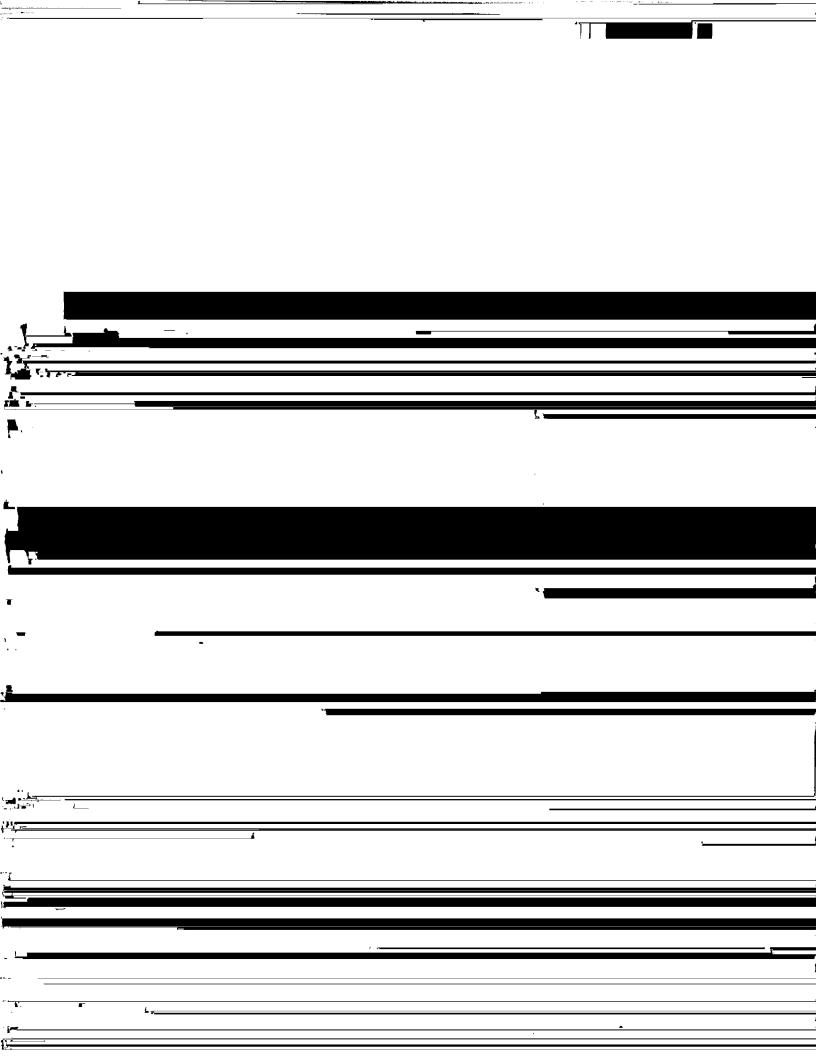
### **BUILDINGS AND GROUNDS**











### ADMISSION REQUIREMENTS 23

- Students who desire to enter one of the diploma programs must satisfy the following admission requirements.

  1. File an application for admission. (Form attached to back of this catalog.)

  2. Submit the official health data form executed by a physician (health form attached to back of this catalog).

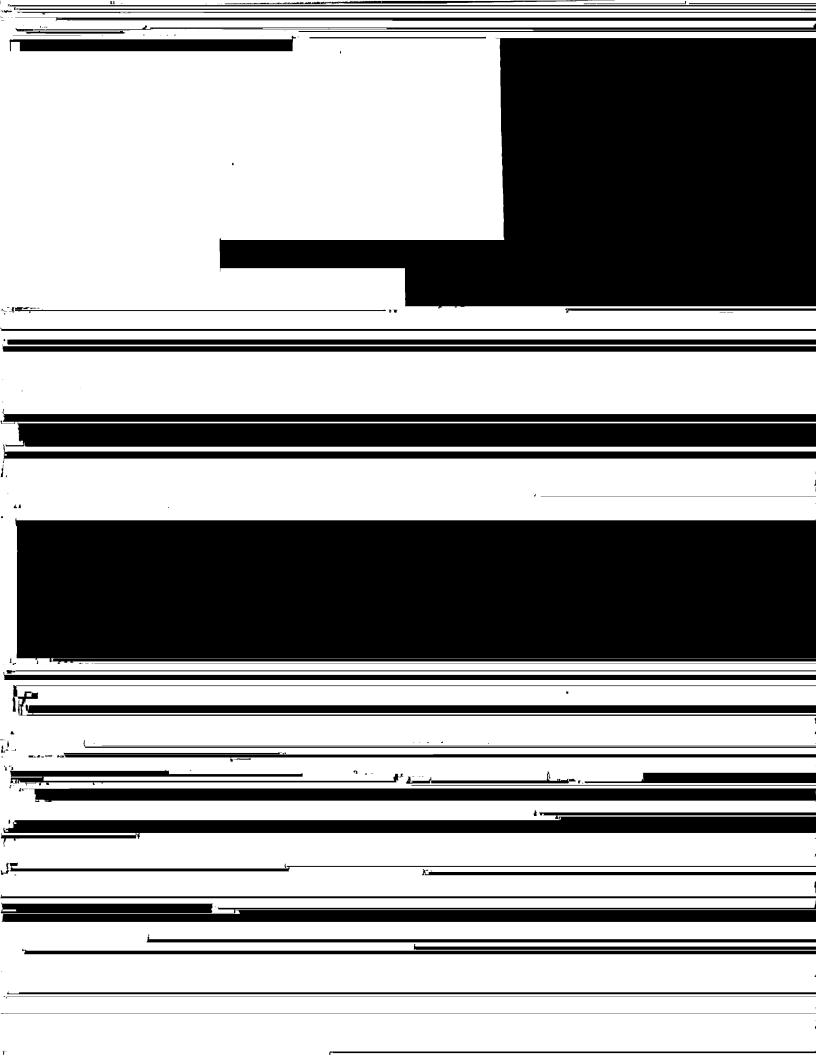
24 ADMISSION REQUIREMENTS either SAT or ACT scores in fulfillment of this requirement. Back Acres

## Fees and Expenses

### **PAYMENT OF FEES**







### 28 FEES AND EXPENSES

Center, student service, laboratory and private lesson fees according to the following schedule:

Long Session

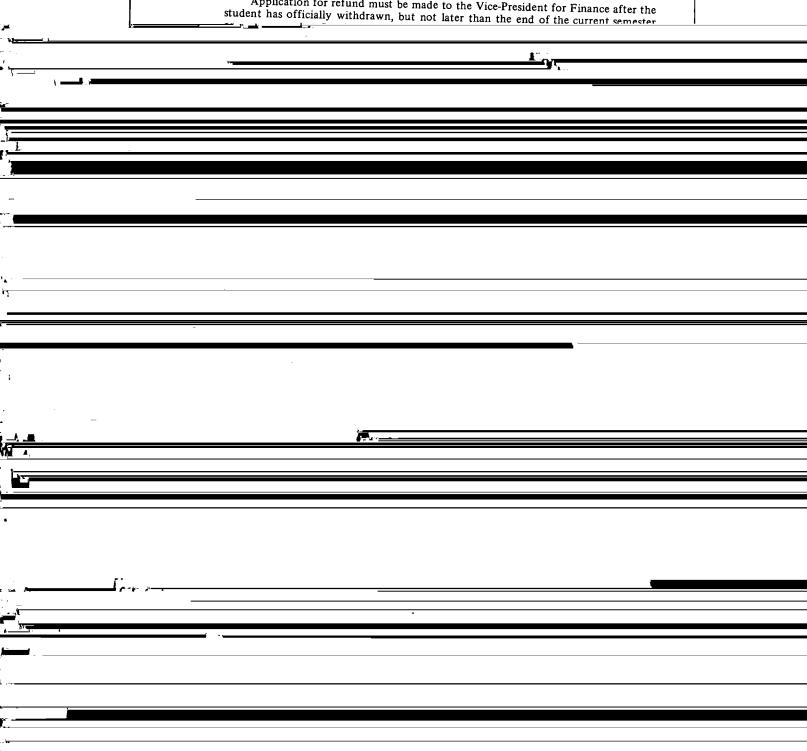
- 1. During the first two weeks of the semester, 80 per cent.
- 2. During the third week of the semester, 60 per cent.
- 3. During the fourth week of the semester, 40 per cent.
- 4. During the fifth week of the semester, 20 per cent.

#### Summer Session

- 1. During the first week of the semester, 60 per cent.
- 2. After the first week no refund.

No refunds are made when dropping courses.

Application for refund must be made to the Vice-President for Finance after the



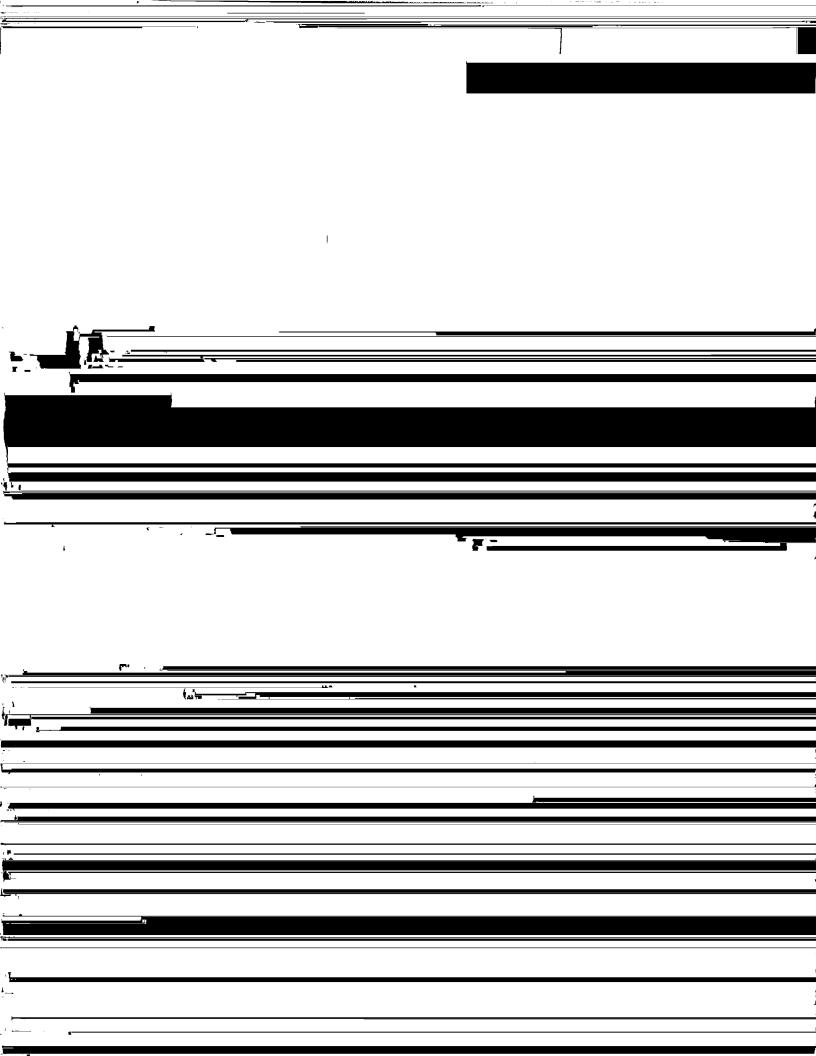
### FEES AND EXPENSES 29

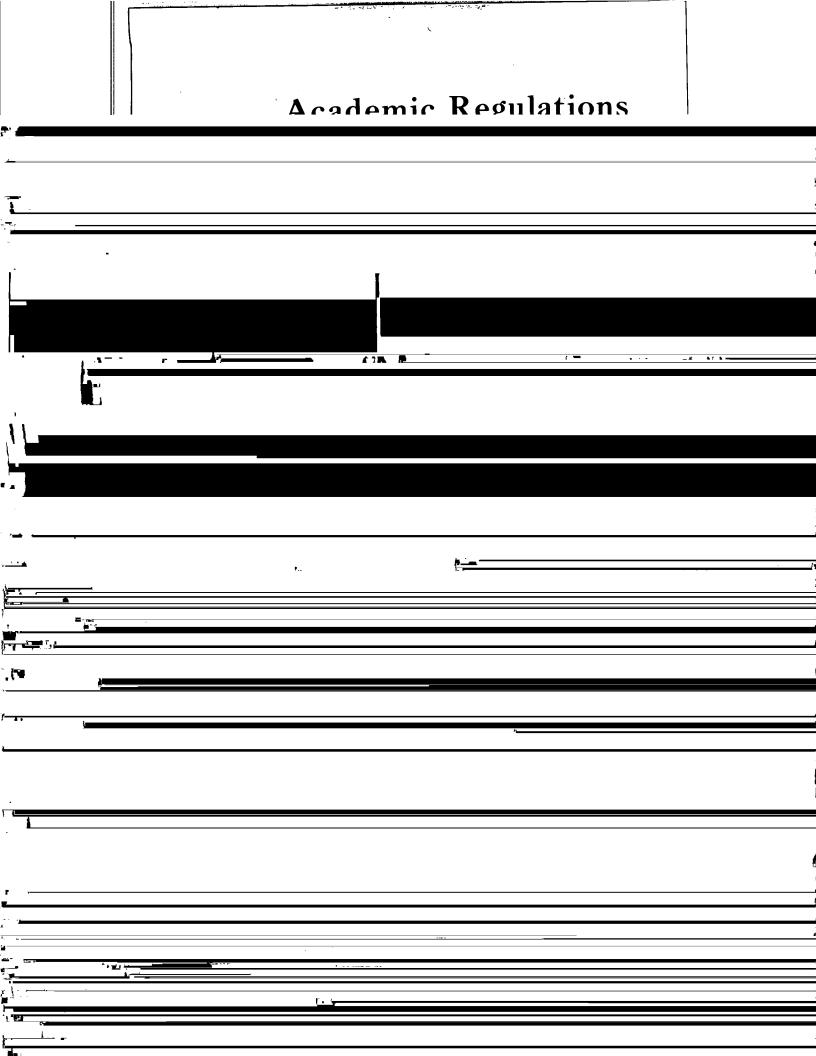
person controlling his domicile, is required to notify the Dean of Admissions and Records.

Students failing to comply with the residence provisions of the state tuition bill (Art. 2645c, V.C.S. as amended 1957) are subject to penalties as set forth in the law and/or appropriate disciplinary action.

## RULES AND REGULATIONS FOR DETERMINING RESIDENCE STATUS

See the general catalog for complete information on how residence status is determined.



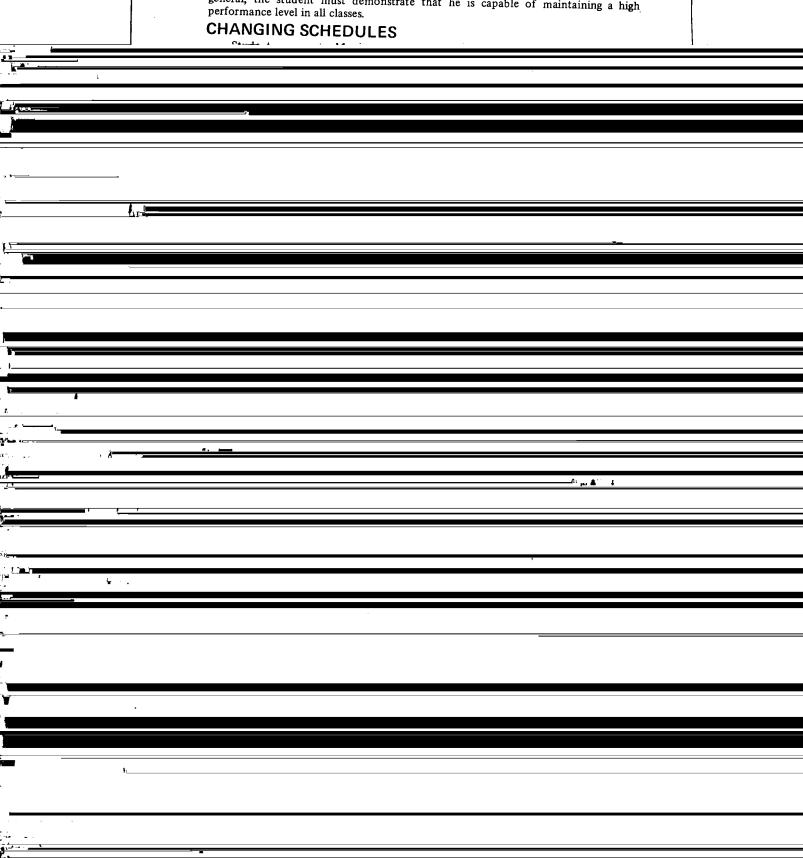


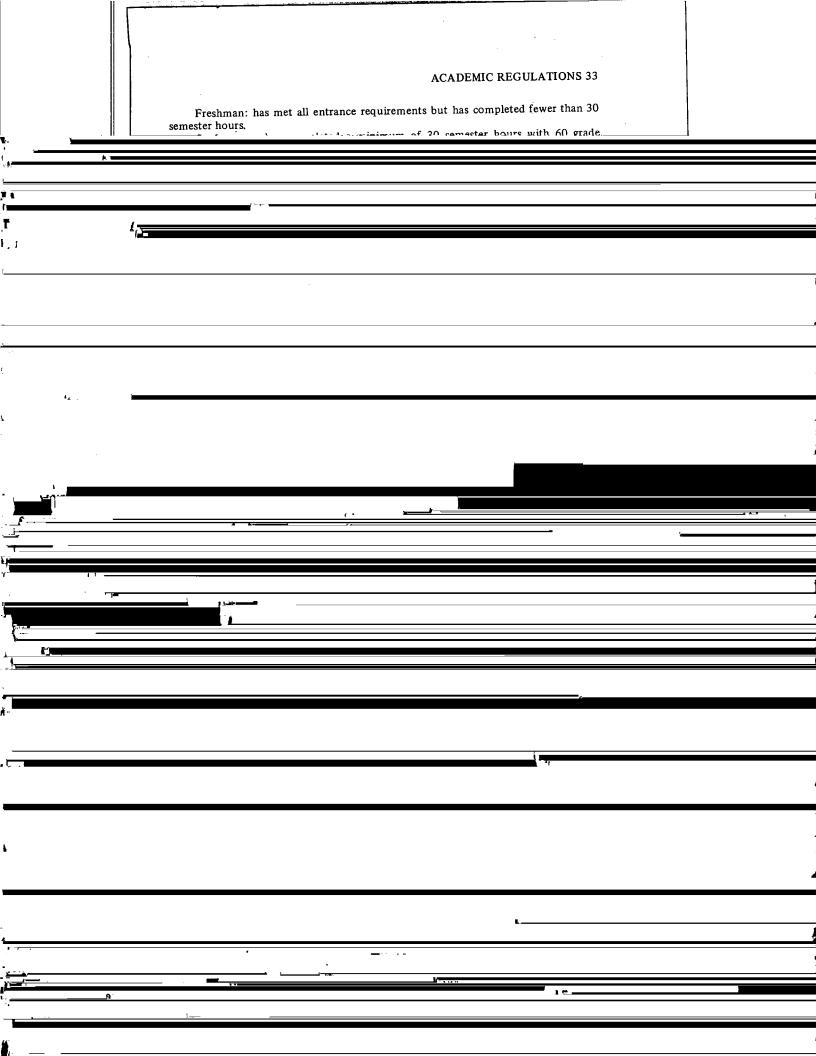
### 32 ACADEMIC REGULATIONS

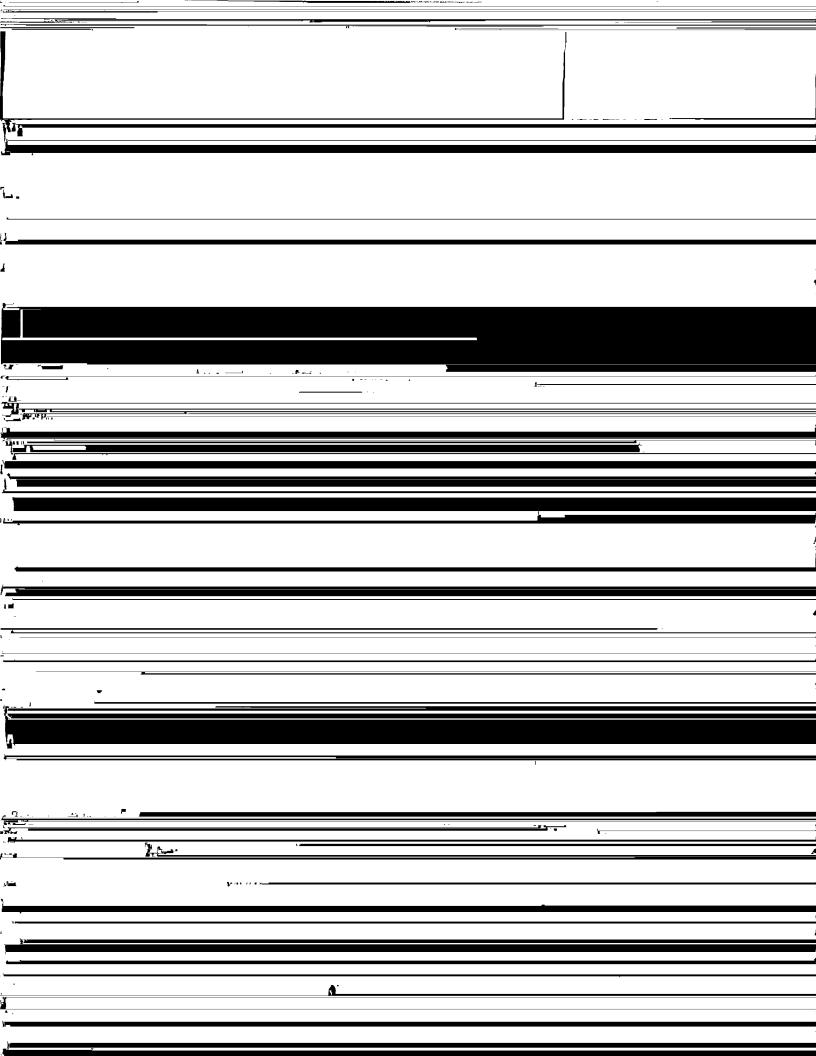
scheduled for each semester of the program being followed. The normal course load for a six-week Summer term is six to eight semester hours.

### Overloads

The Dean of the College of Technical Arts must approve all overloads. In general, the student must demonstrate that he is capable of maintaining a high

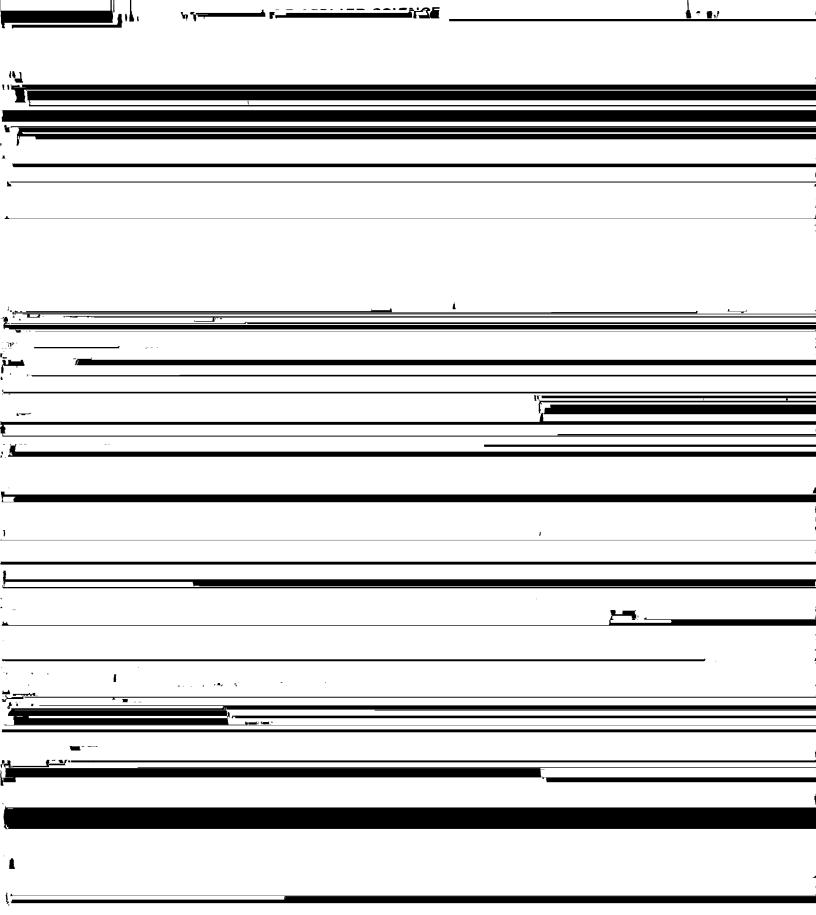






**GRADUATION REQUIREMENTS 35** 

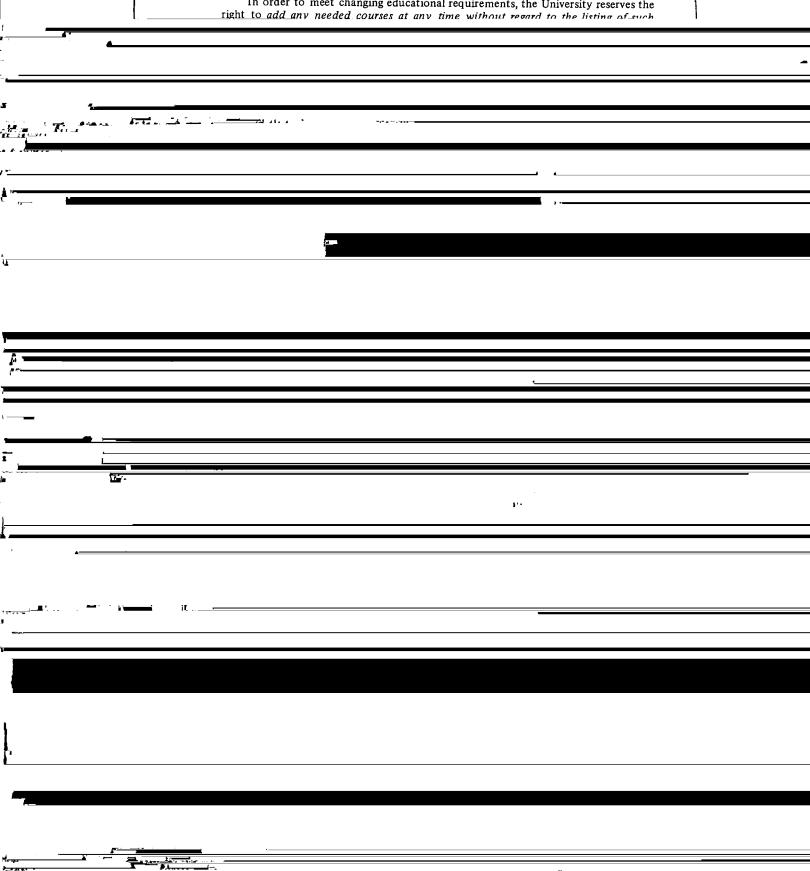
# Graduation Requirements



## General Regulations

## **NEW COURSES**

In order to meet changing educational requirements, the University reserves the



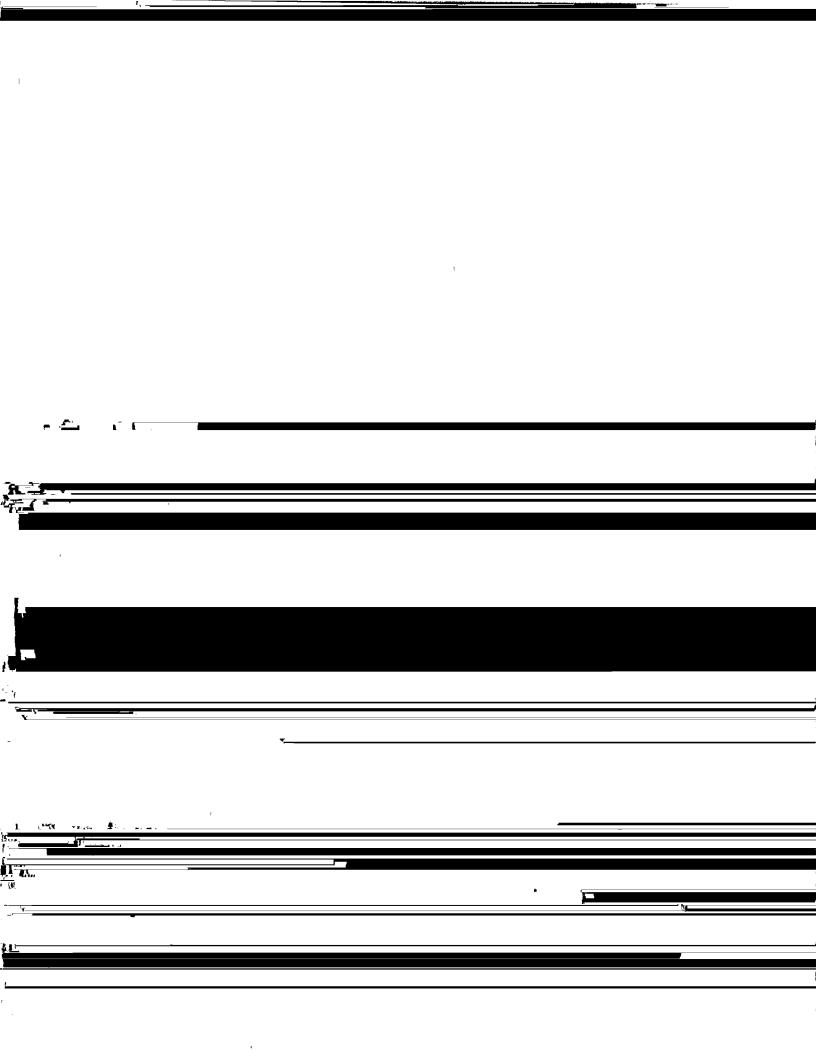
## GENERAL REGULATIONS 37

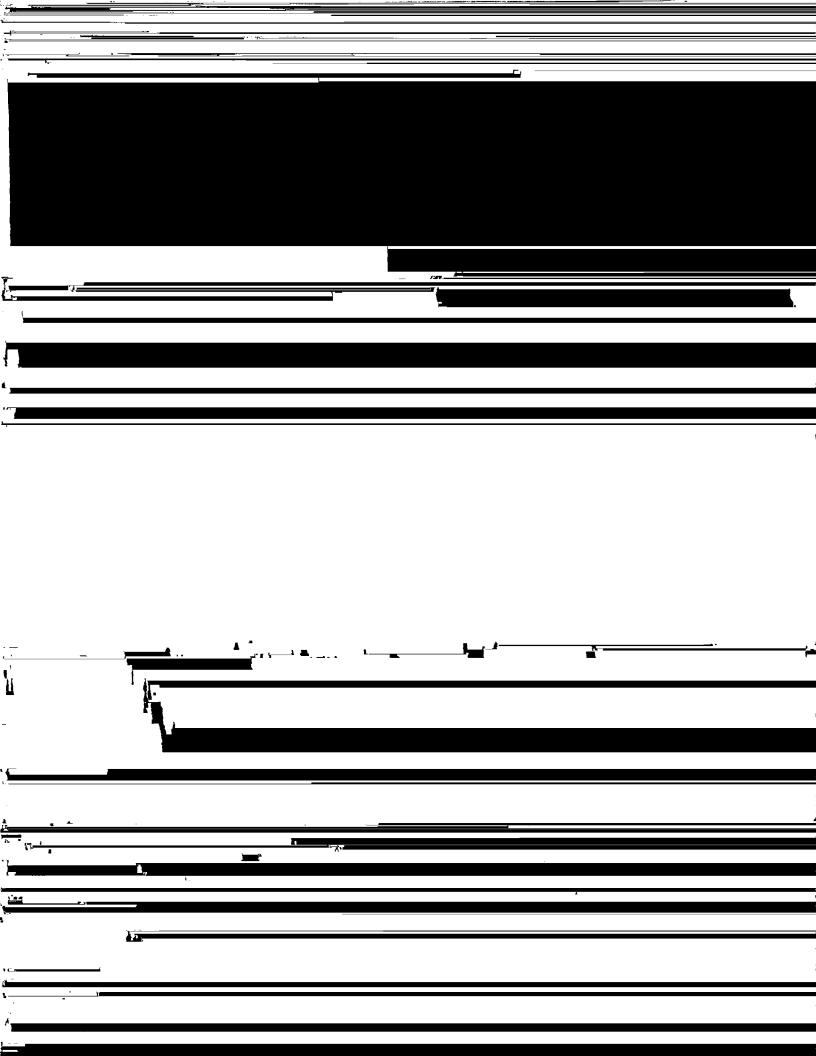
For the purpose of establishing eligibility, two six-week summer terms may count as one semester.

Transfer students have the same eligibility as freshman students until completion of one semester at Lamar.

## PARKING REGULATIONS



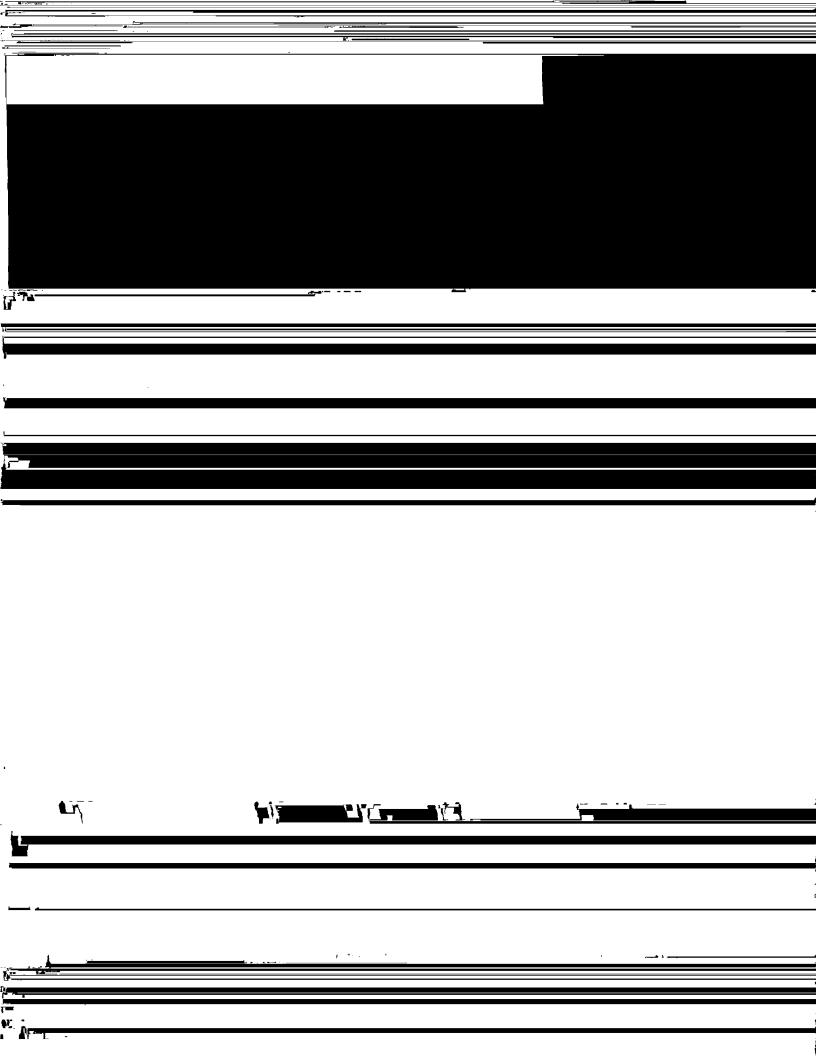


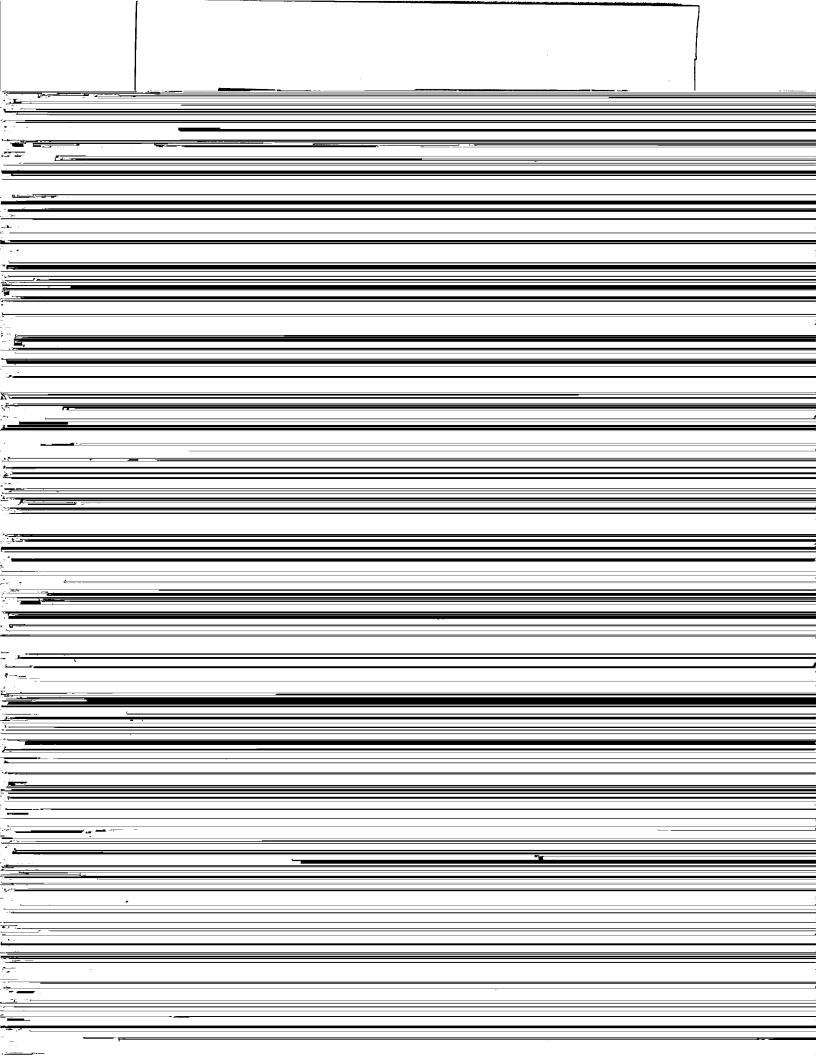


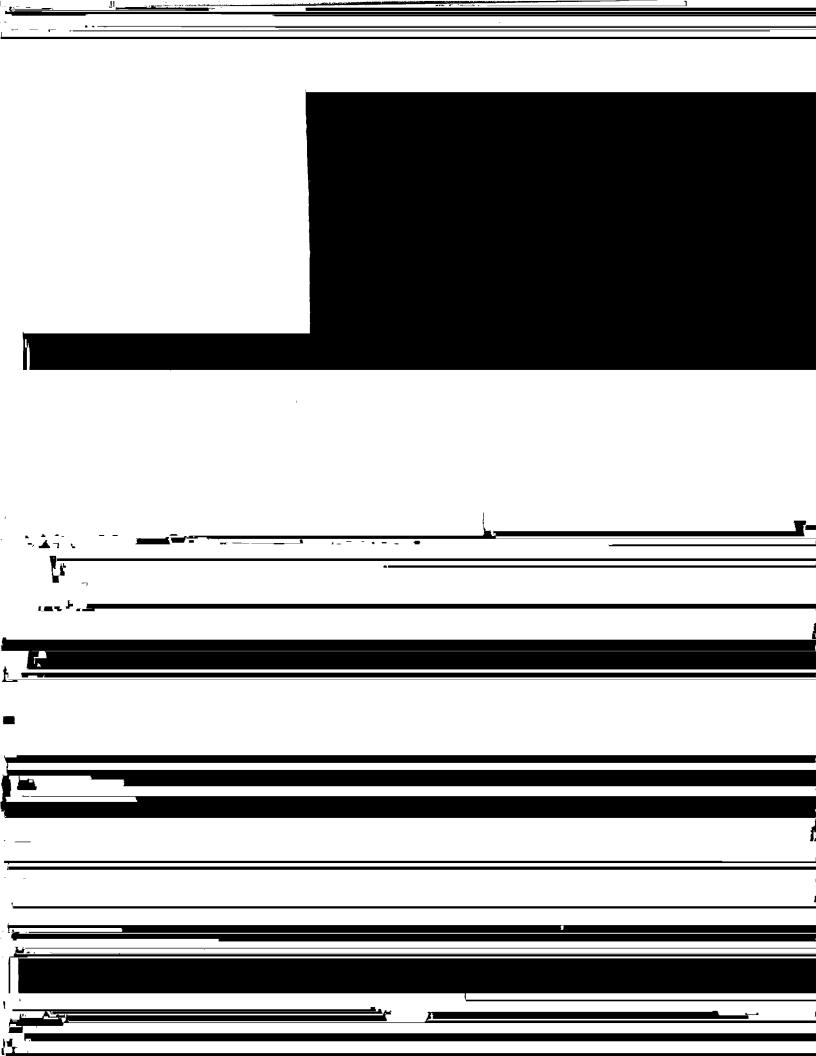
# College of Technical Arts

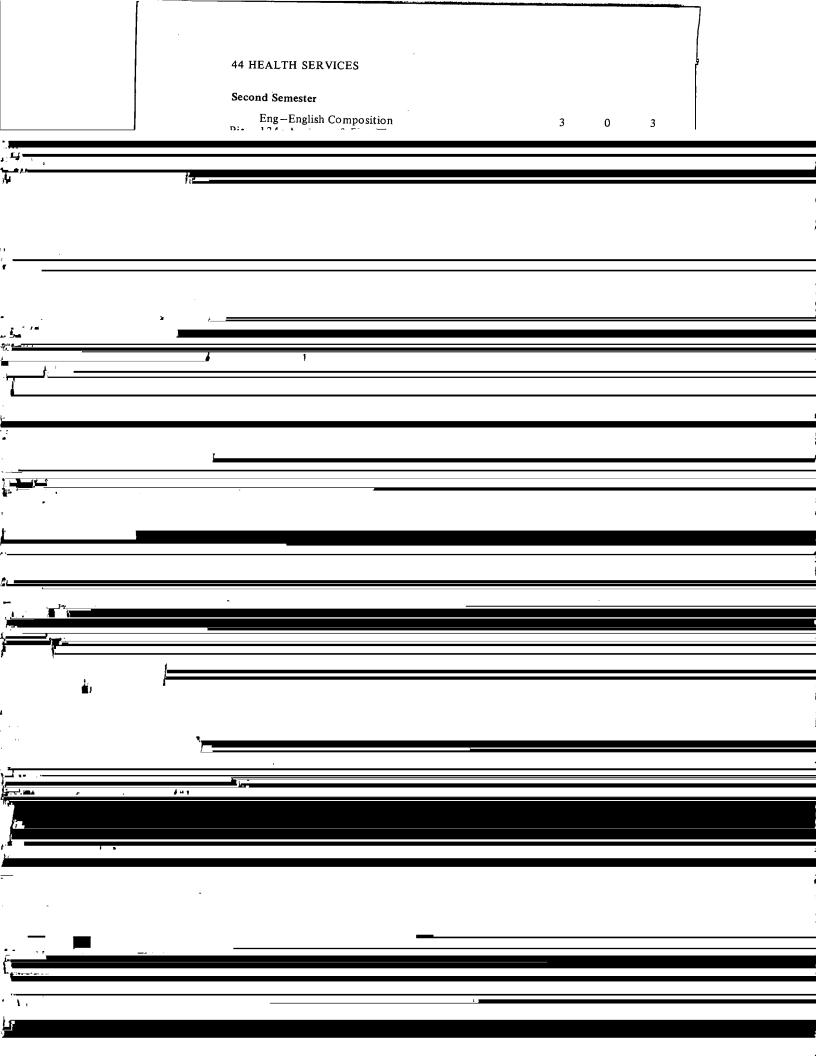
## **DIPLOMA PROGRAMS**





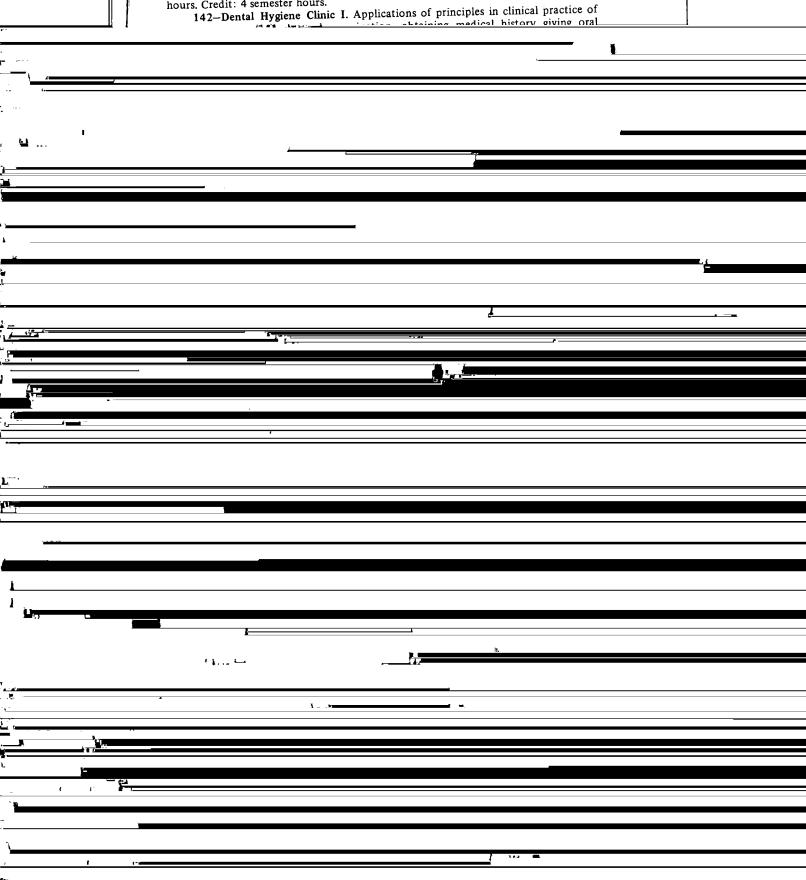






### **HEALTH SERVICES 45**

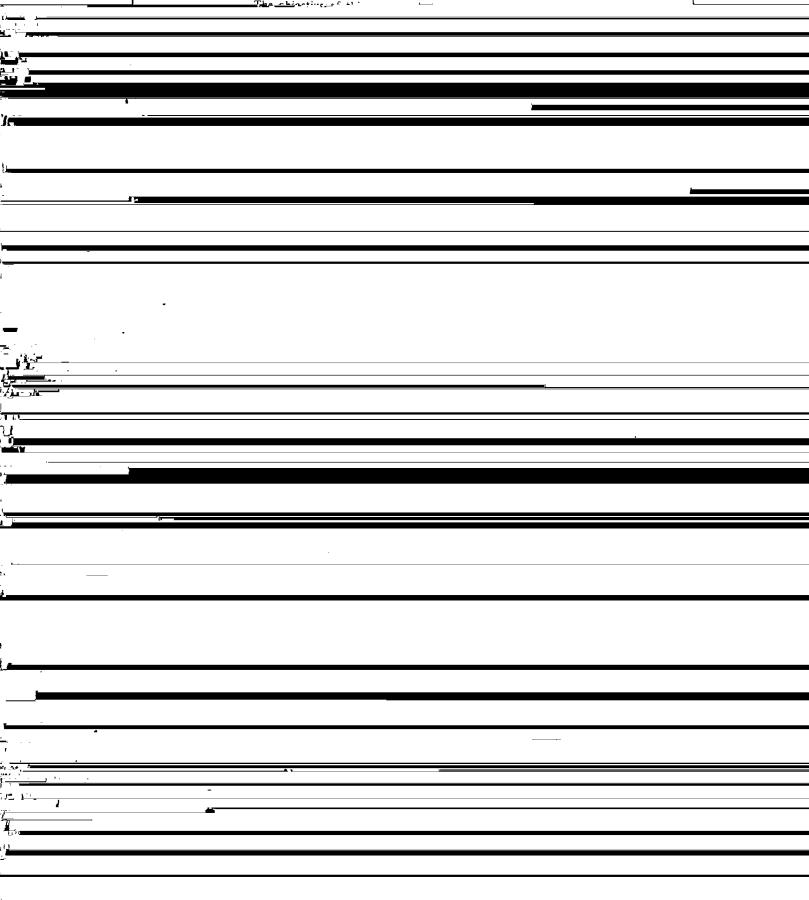
143—Oral Anatomy & Embryo-histology. A brief study of the embryological development of the face and oral cavity. A detailed study of the macro and micro anatomy of the oral cavity and related structures. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours.



**46 HEALTH SERVICES** 

## RADIOLOGIC TECHNOLOGY

Instructors — Marilyn H. Chitwood, R.T., and Martha J. Fontenot, R.T.



	HEALTH	I SERVIC	ES 47
Fourth Semester		2	1
RA 243-Special Procedures II	3.	. 0	3
RA 236-Radiologic Technology Seminar RA 244-Radiologic Technology Practicum VI	ő	25	4
Spc 131—Speech Communications	_3_	_0_	_3
Special Committee of the Committee of th	9	27	14

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#### **48 HEALTH SERVICES**

233—Radiologic Technology Practicum IV. The student will study the clinical application in this course with emphasis on job responsibilities and confidence in skill performance. Clinical laboratory: 25 hours. Credit: 3 semester hours.

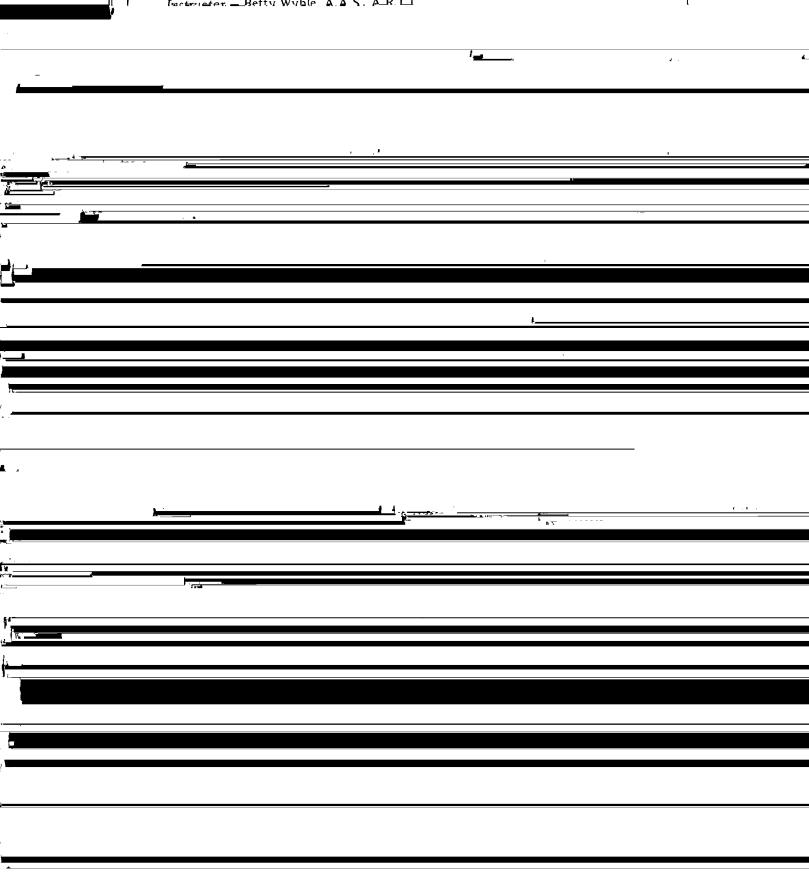
235—Radiographic. Physics An intensive study of alexanders.

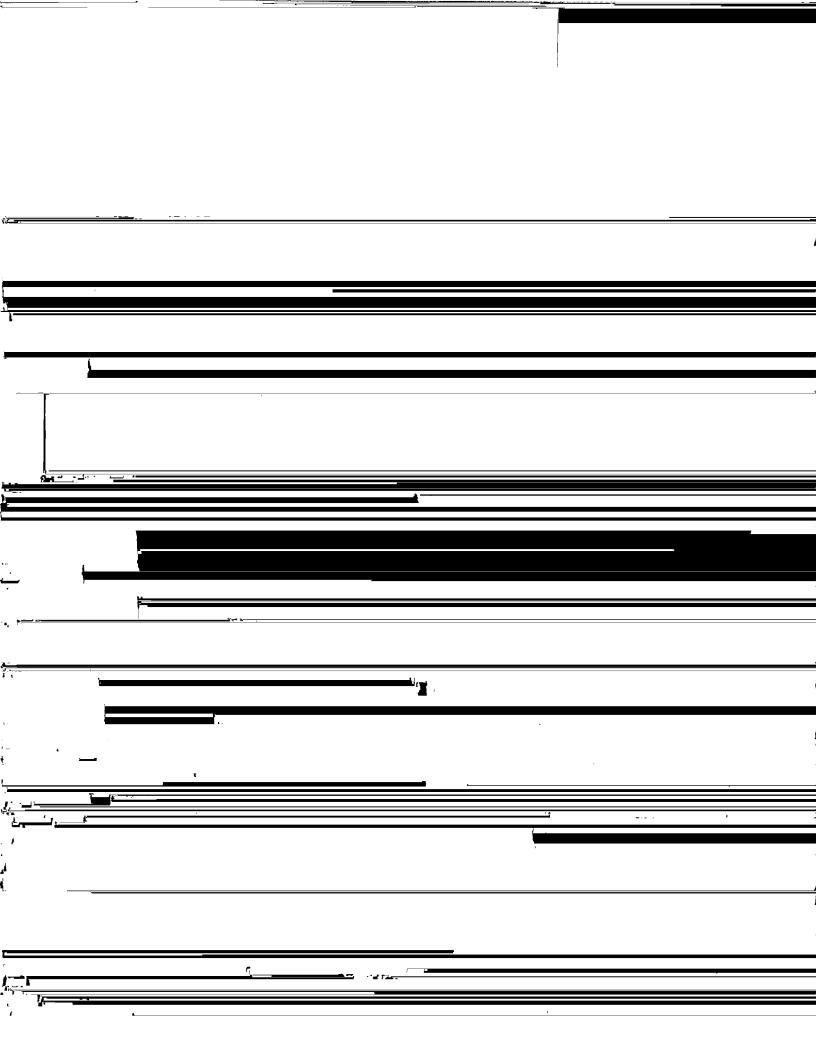


HEALTH SERVICES 49

## RESPIRATORY TECHNOLOGY

Partmeter \_ Betty Wyble A. A S. A.R. LT

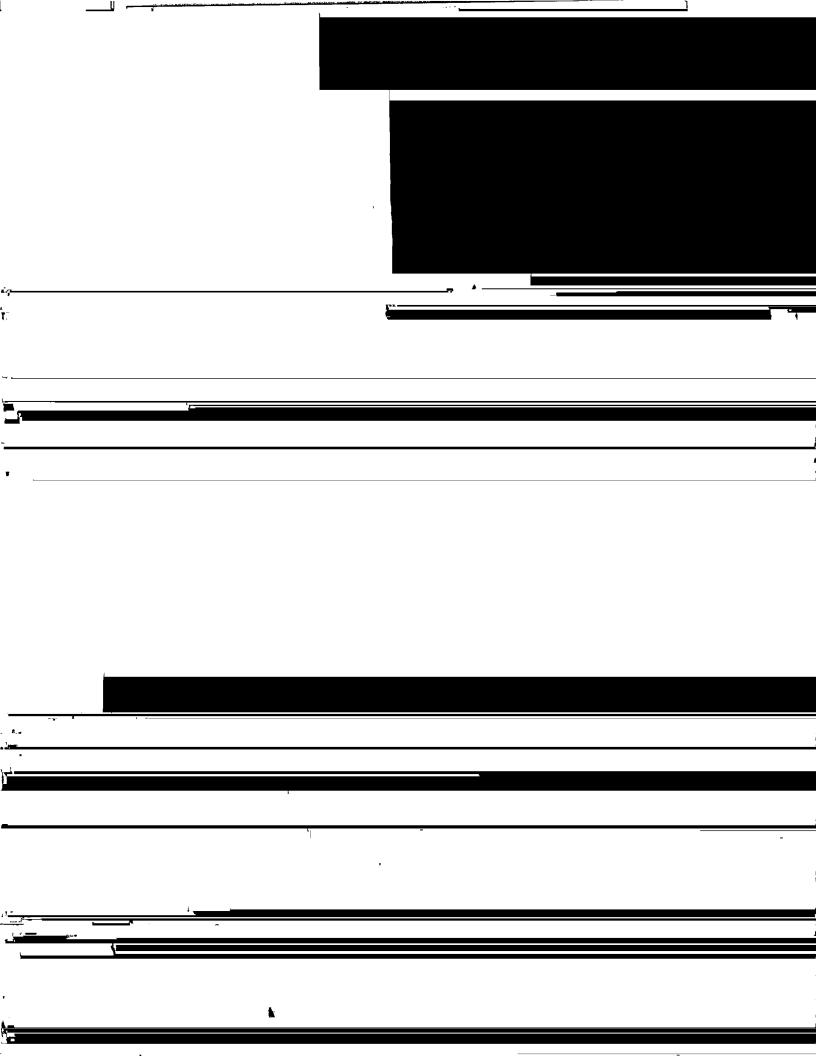


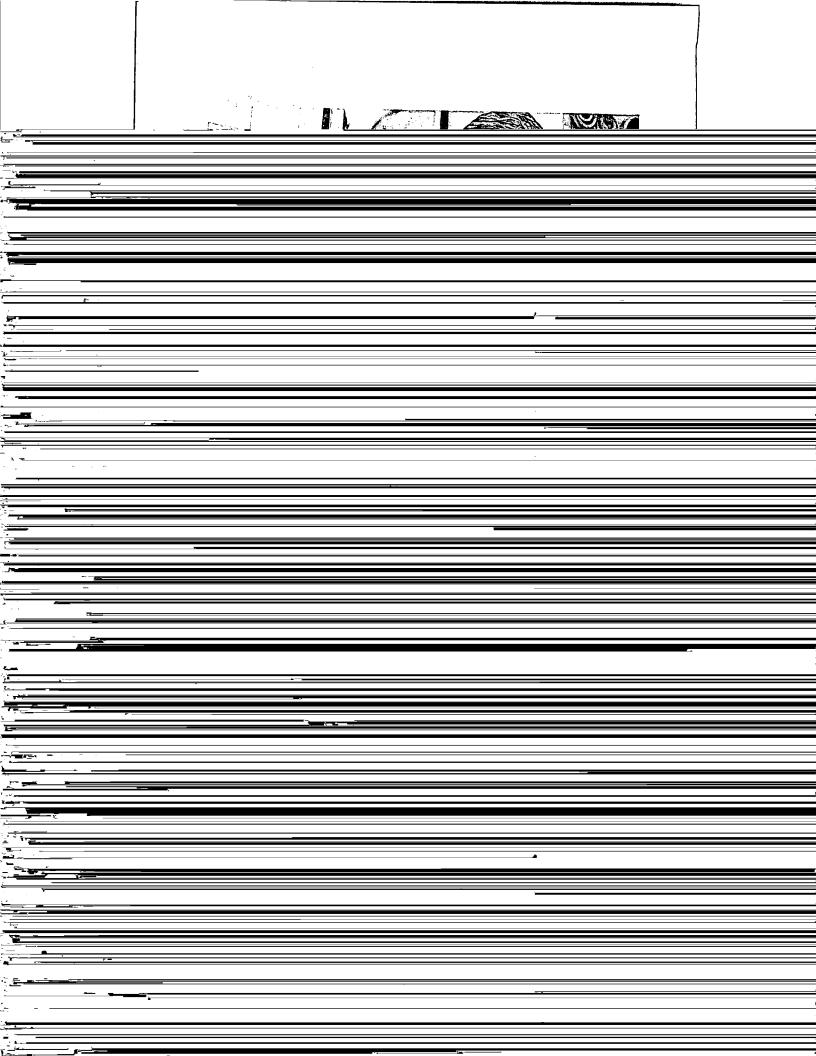


HEALTH SERVICES 51 167—Clinical Practice II. General clinical practice utilizing intermittent positive

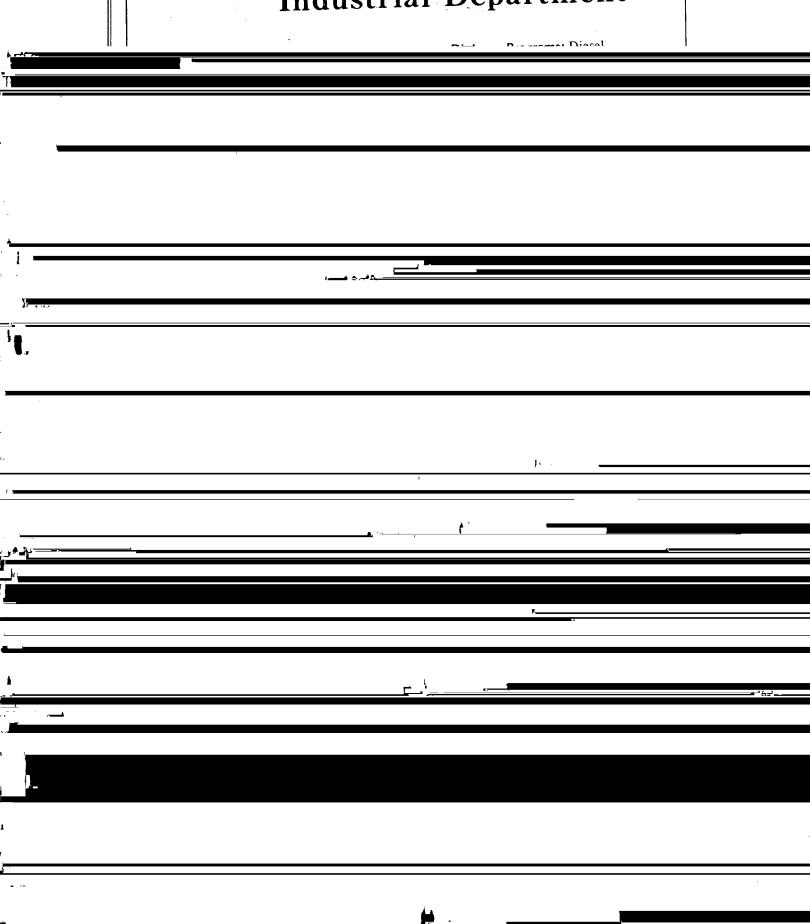
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52 HEALTH SERVICES **VOCATIONAL NURSING** 





# Industrial Department



#### Third Semester

DM DM DM DM TM JR	231 – Ignition and Combustion Principles 232 – Diesel Fuel & Lubrication 236 – Troubleshooting & Installation 237 – Advanced Diesel Engines Maintenance 231 – Applied Geometry 231 – Job Relations or Soc 131 (Soc. Dept.)	3 3 0 0 3 3 12	0 0 7 7 0 0 0	3 3 3 3 3 3
Four	th Semester			
DM DM DM DM TM Elect	234—Overhaul Procedures 235—Fuel Injection System 238—Dynamometer Operation & Analysis 239—Diesel Engine Hydraulics 232—Industrial Mathematics ive†	3 3 0 0 3 3	0 0 7 7 0 0	3 3 3 3 3

†By Approval

Suggested Technical Arts electives: MM 131, BC 231, JR 232, MM 233, MT 133, WLD 133, DFT 133, IEE 133, TM 134, MM 132, MM 231, BDP 131.

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## **DIESEL MECHANICS (DM)**

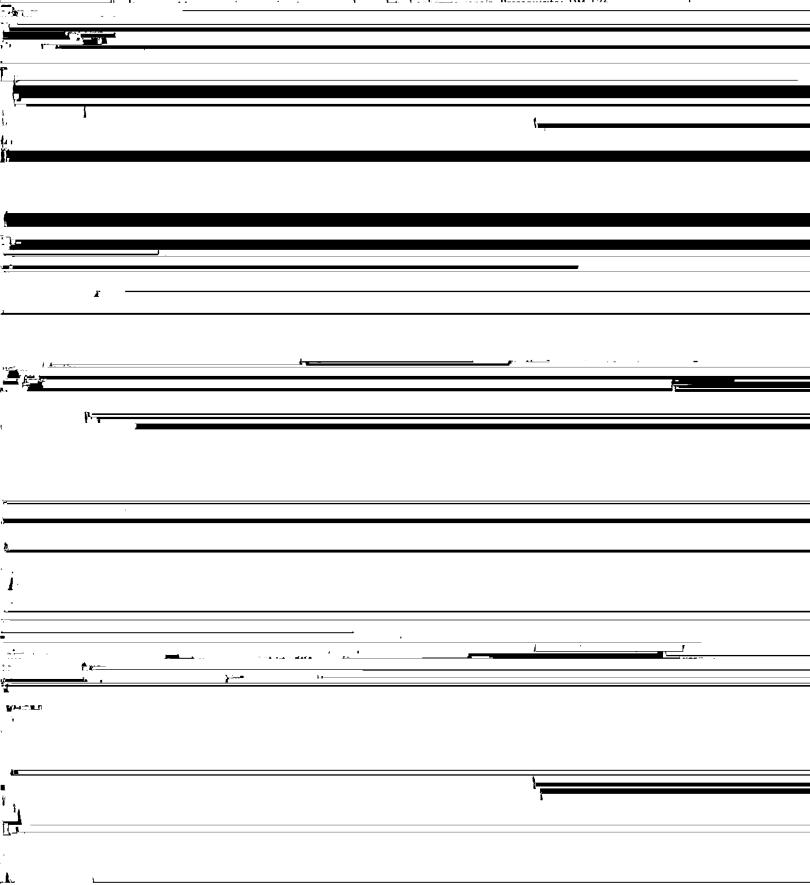
131— Introduction to Diesel Mechanics. General description and construction of engines, diesel engine principles, frames, cylinders, heads, and pistons. Class: 3 hours. Credit: 3 semester hours.

132-Diesel Cycle Application. The diesel cycle, its advantages and applications. The basic problems of operations and the design and construction of diesel engines are studied. Class: 3 hours. Credit: 3 semester hours.

133-Small Engines. The operation and repair of small internal combustion engines. Diagnosis and troubleshooting will be emphasized. Class: 3 hours. Credit: 2

cylinder and piston reconditioning. Prerequisite: DM 136 and 137. Laboratory: 7 hours. Credit: 3 semester hours.

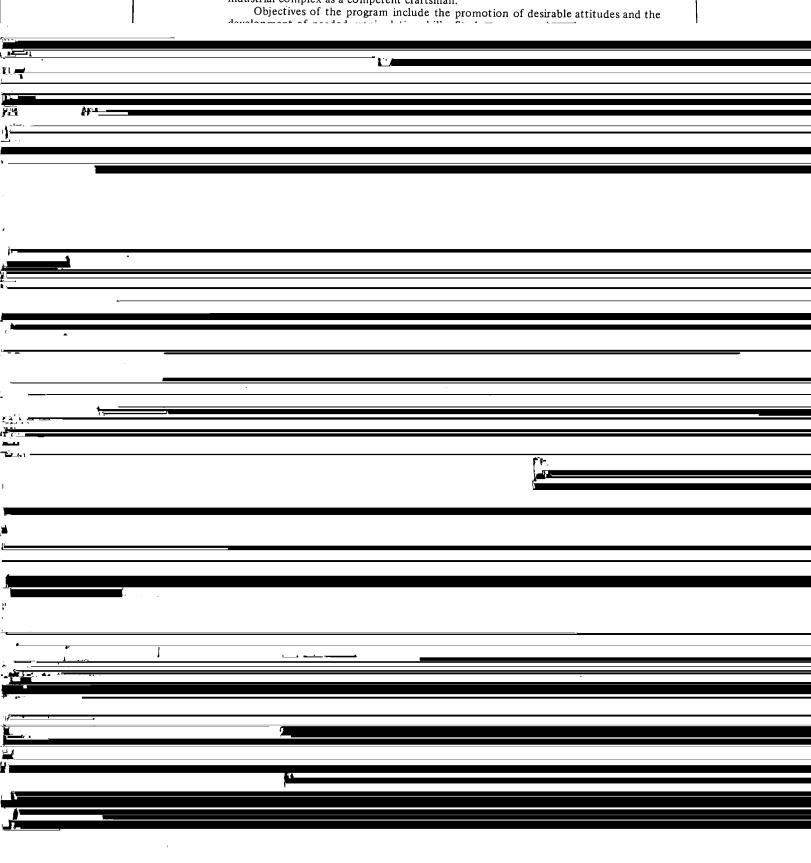
139-Accessory Servicing. Repair of water pumps, oil pumps, fuel pumps,

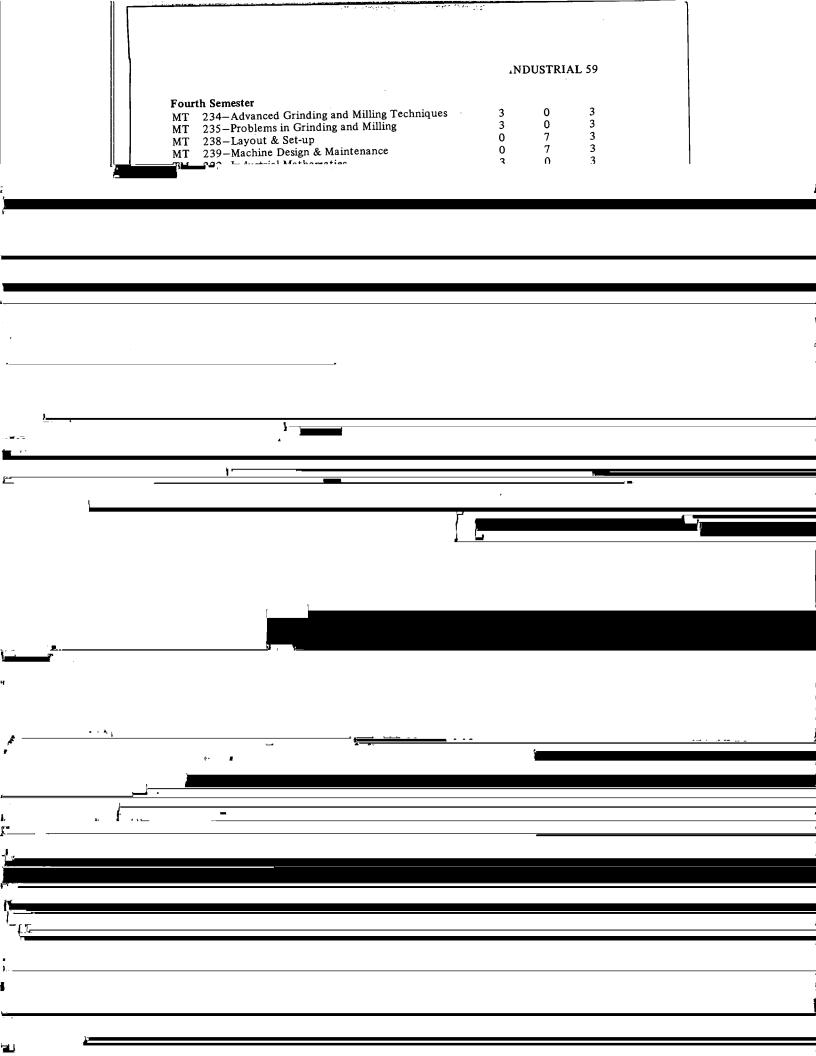


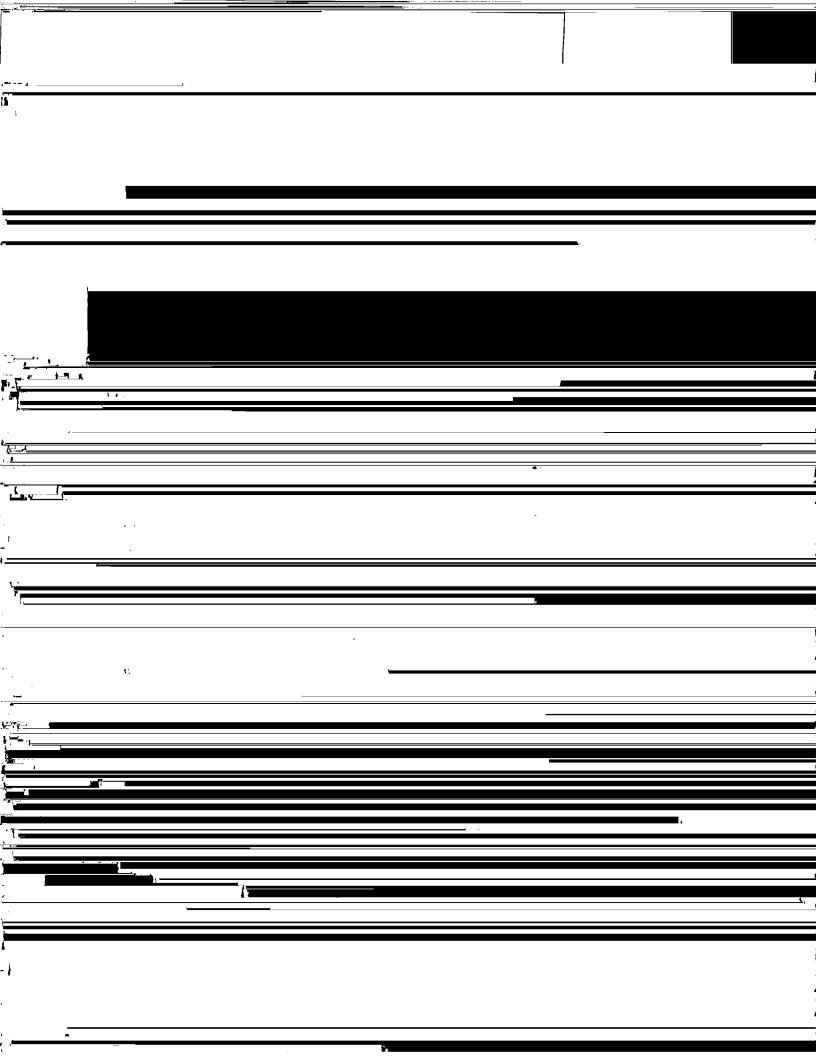
#### **MACHINE TOOLS**

Instructors - M. Paul Roy, Emmett L. Black, Otto A. Kriegel.

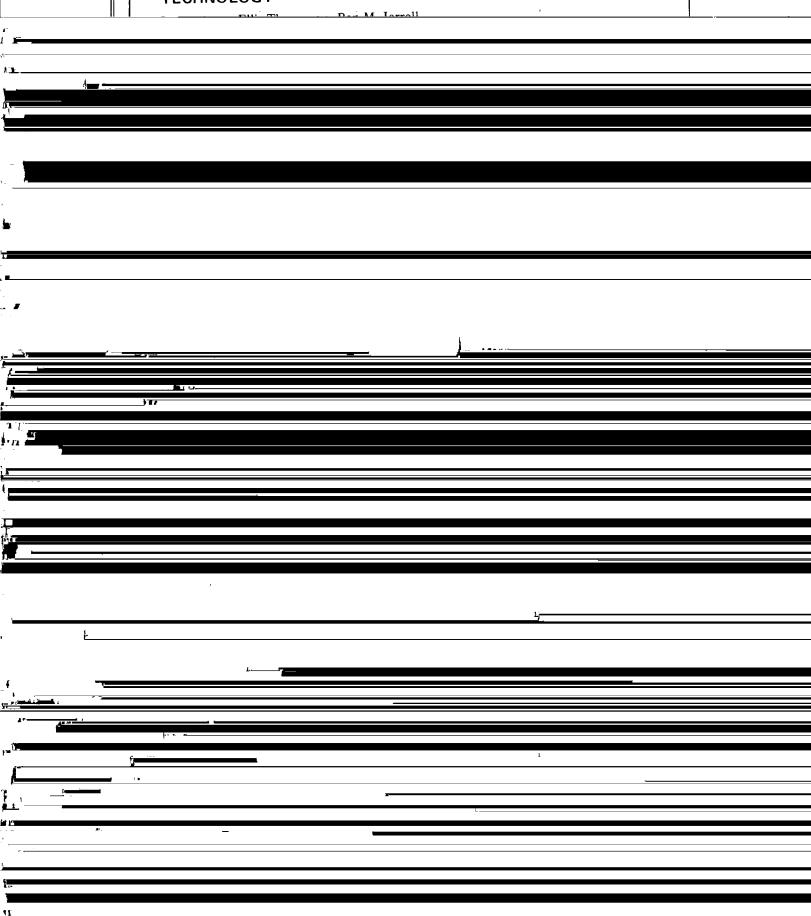
Machine Tools is a two-year program designed to train students in the proper use of modern metal-removing machine tools. The curriculum is designed to develop those skills, abilities and perceptions needed to permit the graduate to advance in the industrial complex as a competent craftsman.

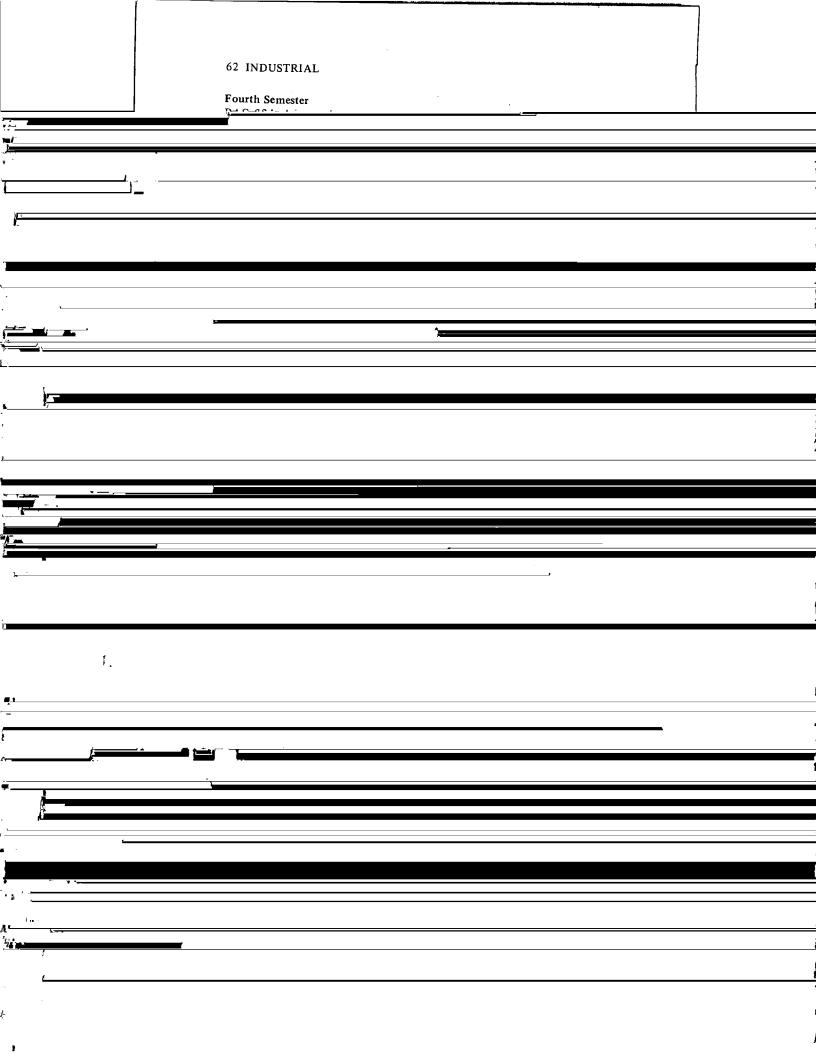


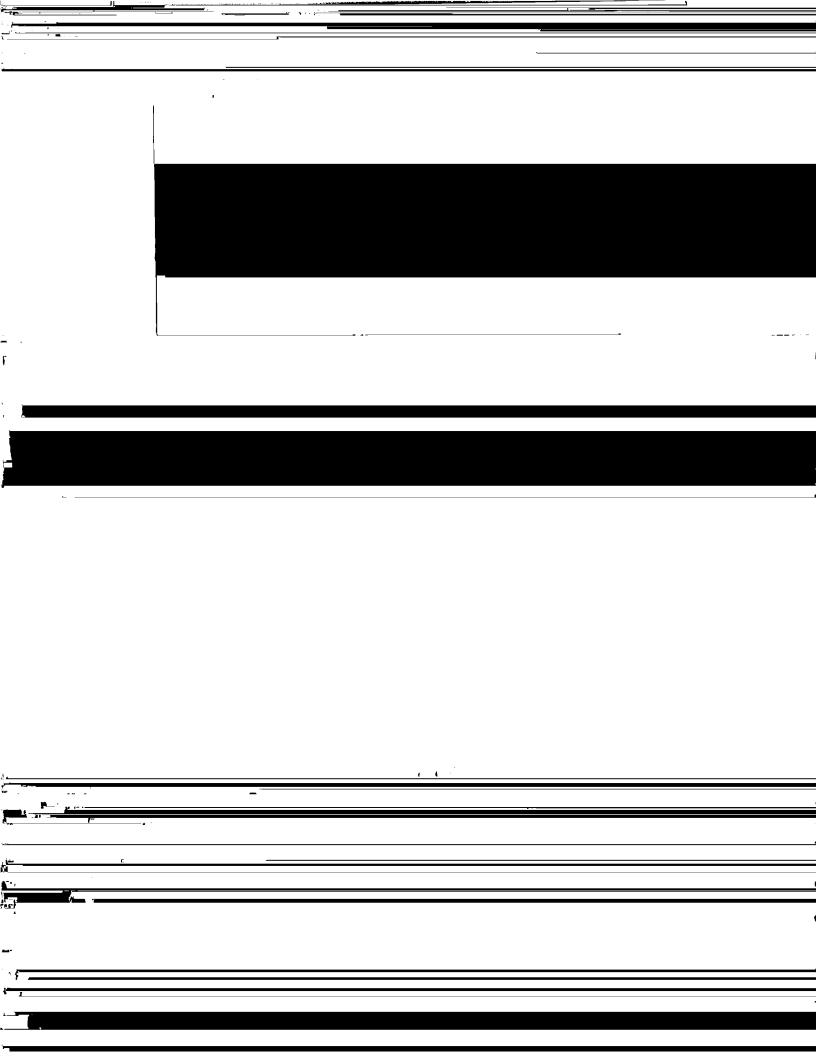




REFRIGERATION AND AIR CONDITIONING TECHNOLOGY







## **WELDING**

Instructors - Joel C. Shankles, Carey B. Wesley and Ronald I. Marble.

Welding is a program designed to prepare the student for a career in the fields of industrial or construction welding, either as a competent welder or in a position which requires knowledge of welding, welding equipment or supplies.

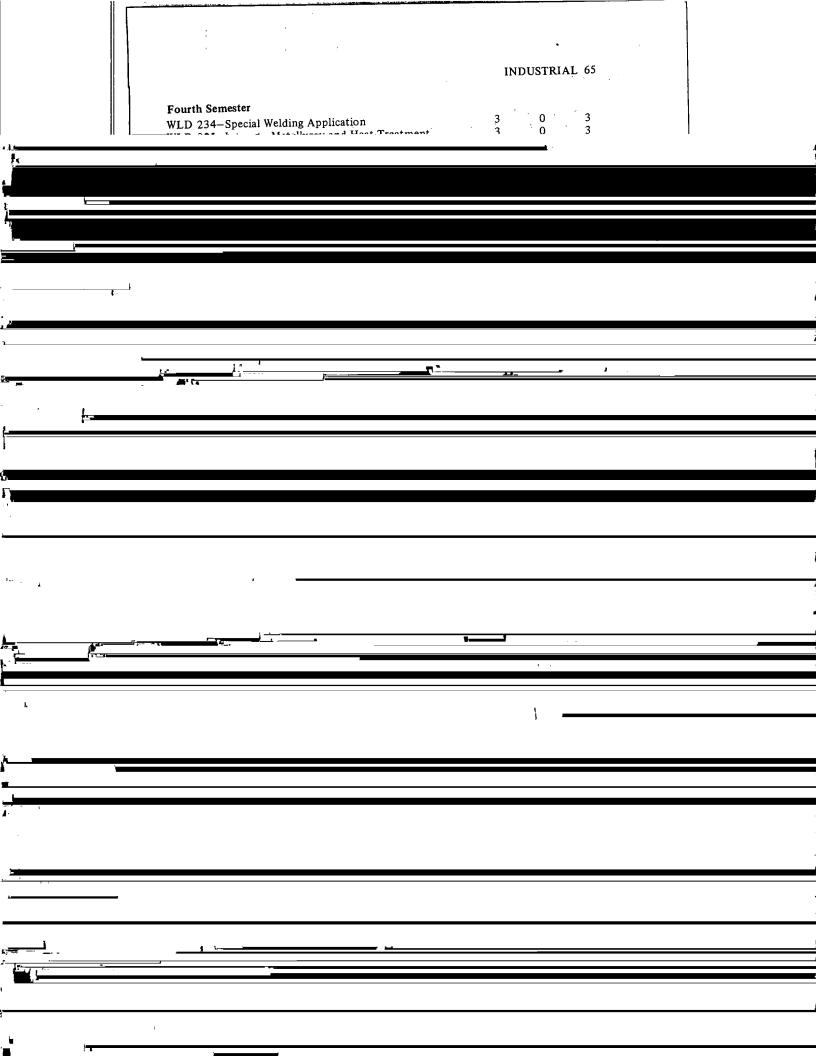
Objectives of the program include the development of skills required in modern welding techniques. Sofatil and report work behits also are strategical.

welding techniques. Safety and proper work habits also are stressed.

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

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TROOKAM OF STUDY			
First Semester	Lecture Hours	Lab Hours	Semester Hours
WLD 131-Study of Tools, Mat'ls & Processes	3	0	3
WLD 132-Principles of Flame Cutting and Arc	_	•	3
Welding Equipment	3	0	2
WLD 136-Operation of Welding Tools	0	7	3 3 3
WLD 137-Welding & Cutting	0	7	3
TM 131-Fundamentals of Mathematics I	U	7	3
or Mth. 1311 (Math. Dept.)		_	
BC 131-Basic Communications or	3	0	3
			-
Eng. Comp (Eng. Dept.)	_3_	_0_	_3_
	12	14	18
Second Semester			
WLD 134-Processes Related to Welding	2	^	2
WLD 135-A.C. and D.C. Supplies	3 3	0	3 3 3 3
WLD 138-Test Qualifications	3	0	3
WLD 139—Welding and Brazing	0	7	3
TM 132-Fundamentals of Mathematics II	0	7	3
or Mth. 1313 (Math. Dept.)		_	
BC 132-Business Communications or	3	0	3
Eng. Comp. (Eng. Dept.)			
Eng. Comp. (Eng. Dept.)	_3_	_0_	_3_
	12	14	18
Third Semester			
WLD 231-Pipe Welding and Layout	3	0	2
WLD 232-Fundamentals of Inert Gas Welding	3	0	3
WLD 236—Ferrous Metals & Pipe	3 .	0	3 3 3
WID 227 I amen's at Day	U	7	3



234—Special Welding Application. Special welding applications, brazing, soldering and resistance welding will be studied in this course. Continuation of blueprint reading and layout. Prerequisite: WLD 134 and 135 or WLD 231 and 232. Class: 3 hours. Credit: 3 semester hours.

235-Introduction to Metallurgy and Heat Treatment. Introduction to metallurgy, metal manufacture, metal identification and heat treatment. Procedures for welder qualification Rhuenrint reading and nine layout continued.



## Related Arts Department

Programs: Mid-Management, Basic Communications, Technical Mathematics, Job Relations

Joe I. Juarez, Acting Head

**MID-MANAGEMENT** 

May Criffon and Nicholas V Tampson

#### 68 RELATED ARTS

Fourth Semester			
MM 232-Personnel Management	3	0	3
MM 242-Mid-Management Internship	0	15	4
MM 212-Mid-Management Seminar	1	0	1
Spc 131-Speech Communications	3	0	3
MM 233-Fundamentals of Supervision or			
BA 331 Business Law (B.A. Dept.)	3	0	3
Electives †	3	_0_	_3_
	13	15	17
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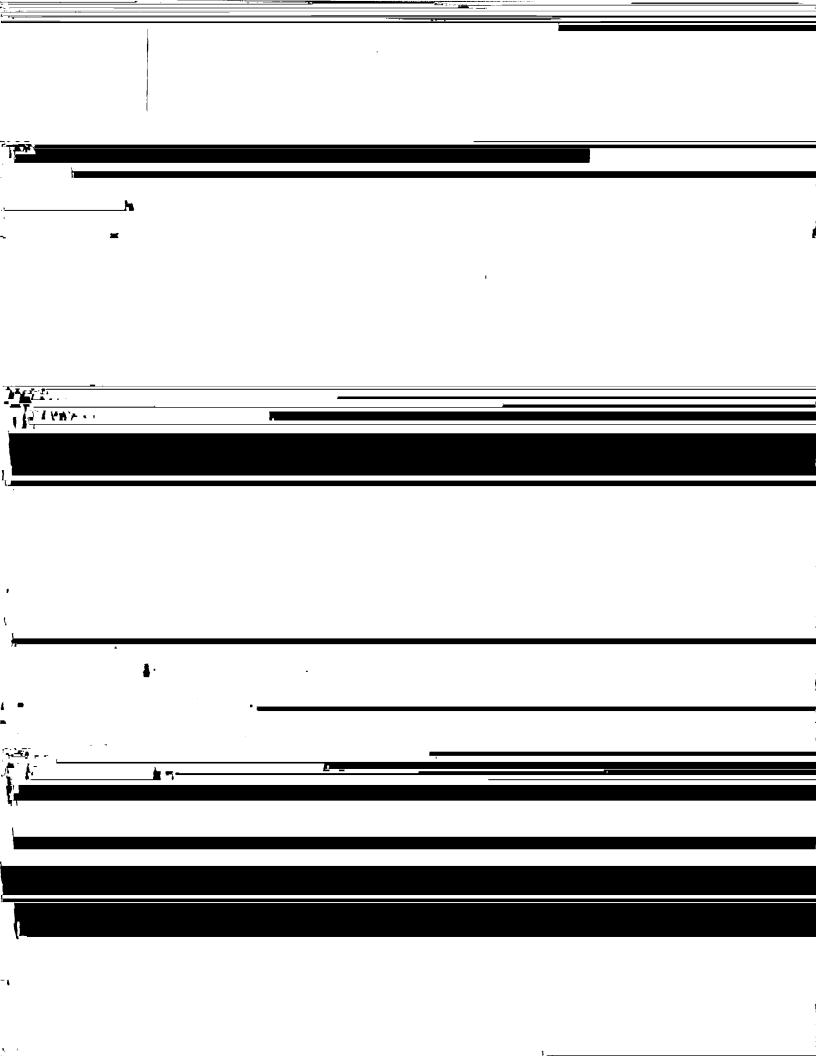
† By approval Cussested alections, BDD 100, DDD 141, DDD 140, DDD 144, DDD 144,

### **RELATED ARTS 69**

236—Business Law. Principles of law which form the legal framework for business activity, applicable statutes, contracts, agency. Class: 3 hours. Credit: 3 semester hours.

237—Retailing. The development, organization, methods, policies of operation, and problems in the marketing structure. Class: 3 hours. Credit: 3 semester hours.

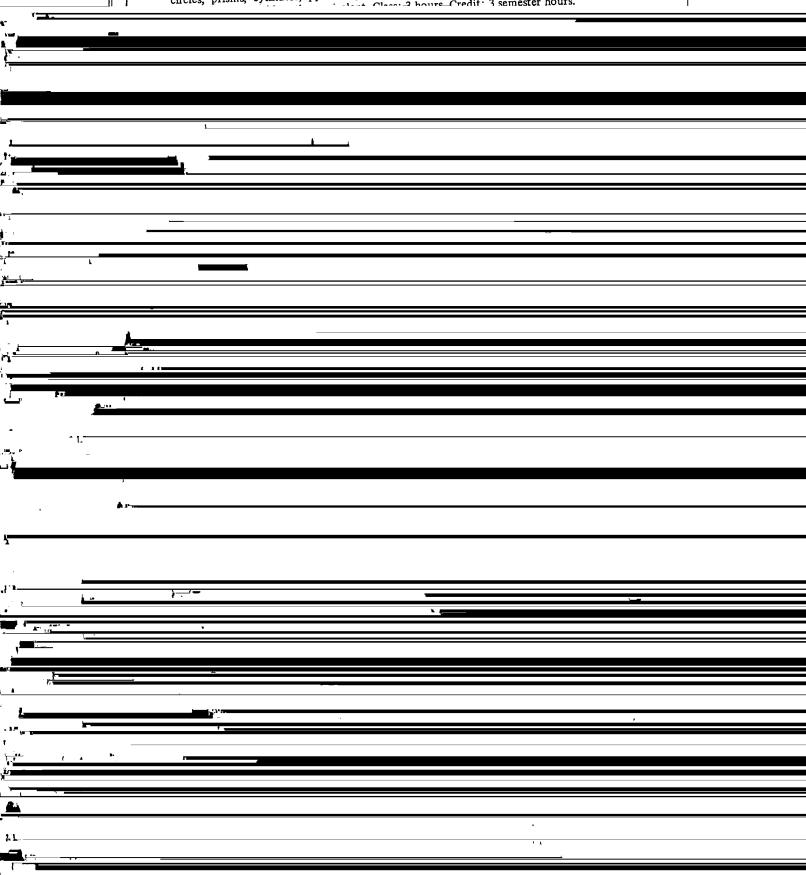


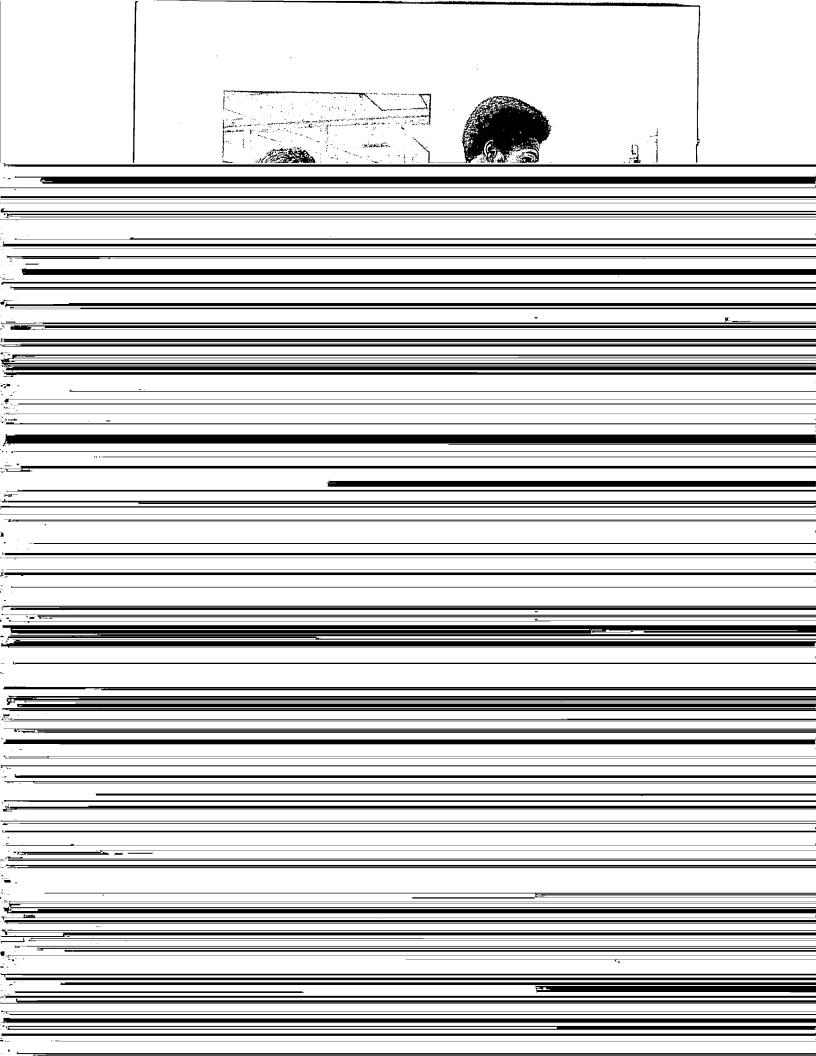


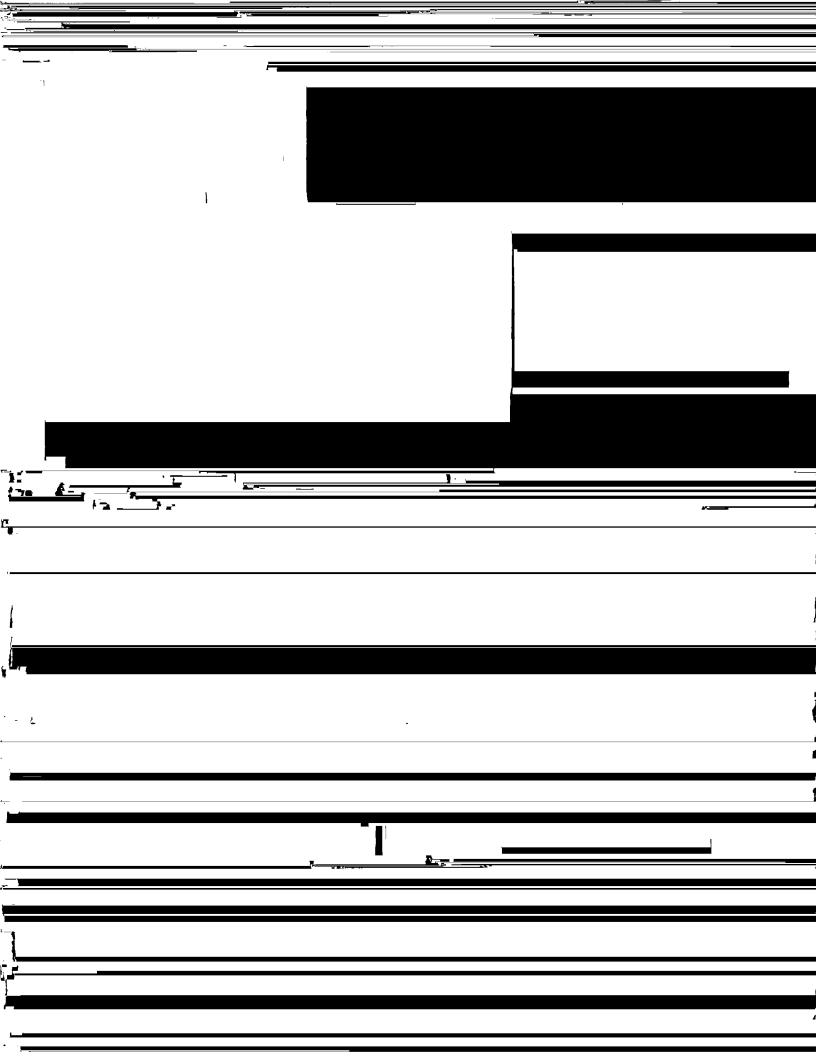
### **RELATED ARTS 71**

134-Business Mathematics. A comprehensive course in basic business mathematics. Presenting work in interest, payrolls, taxes, financial statements, and special problems for the mid-manager. Prerequisite: TM 131 or the equivalent. Class: 3 hours. Credit: 3 semester hours.

231-Applied Geometry. Introduction to geometry, areas of polygons, triangles, circles, prisms, cylinders, pyramids, cones, frustrums, spheres, and special solids.







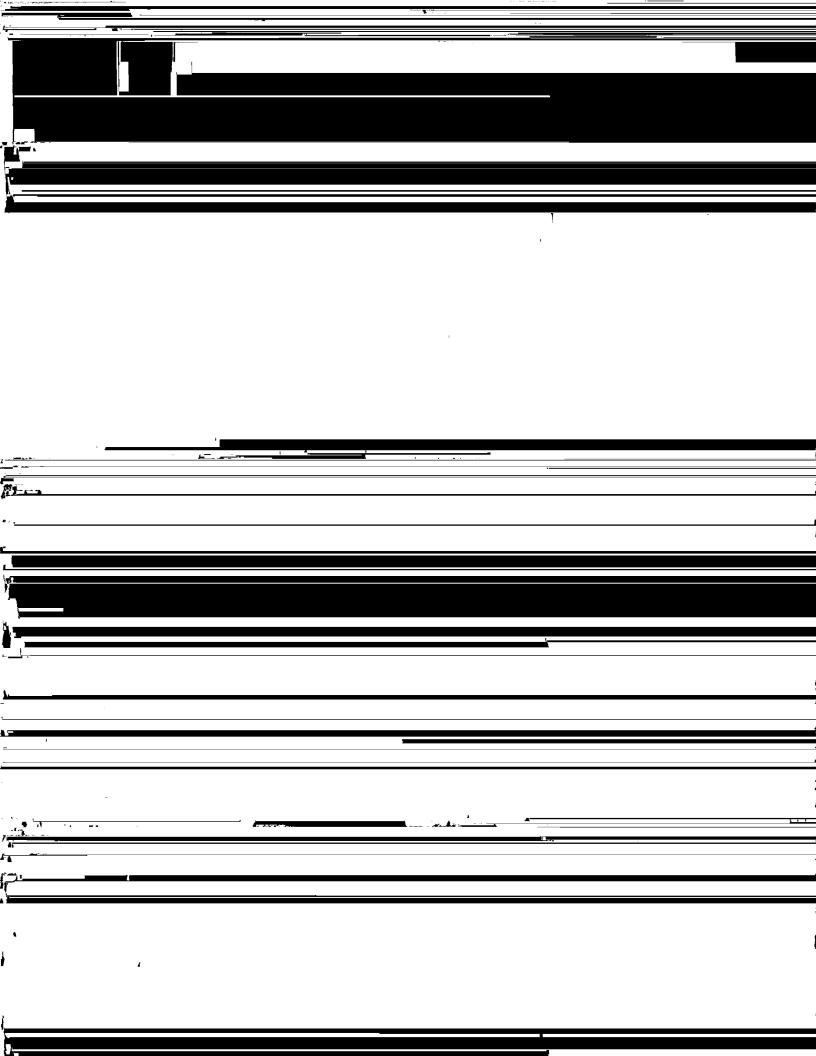
### 74 TECHNICAL

Third Semester  BDP 231-System Design BDP 232-RPG BDP 241-COBOL II BDP 244-Computer Business Applications Electives †	3 3 3 1 3 13	0 0 2 6 0	3 3 4 4 3 17
Fourth Semester BDP 243-Advanced FORTRAN BDP 242-Operating Systems BDP 235-Seminar Electives †	3 3 6 15	2 2 0 0 4	4 4 3 6 17

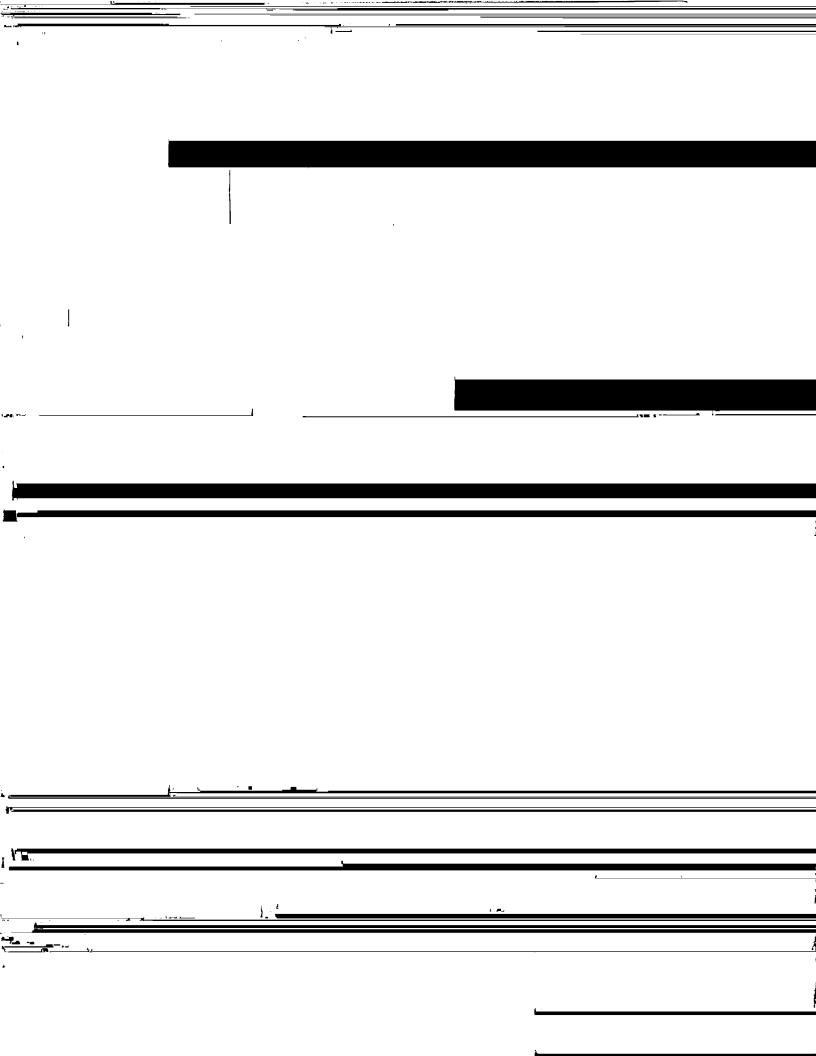
<sup>\*</sup>Students who enroll in CS courses will need to take an additional elective to meet the required number of semester hours.

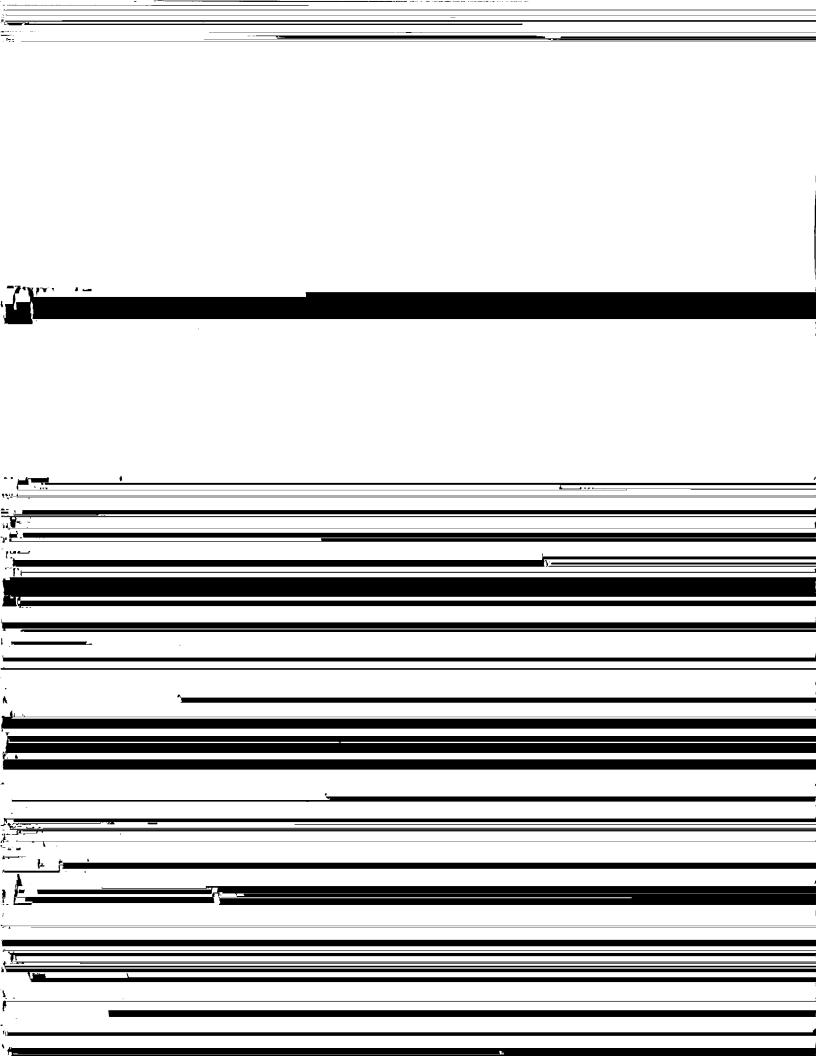
<sup>†</sup>By approval.





76 TECHNICAL DRAFTING TECHNOLOGY Instructors Dolah V Mast Mann M Marit 1: 7: 7 7





### TECHNICAL 79

337—Machine Tools Design Laboratory. The actual drawings of machine parts and the use of drawing instruments that are used by machine design draftsmen. Laboratory: 6 hours. Credit: 3 semester hours.

431-Advanced Reproductive Drafting Techniques. Reproduction techniques, such as microfilming, blueprinting, directo-printing, photo-copying, and other methods, will be studied. Class: 3 hours. Credit: 3 semester hours.

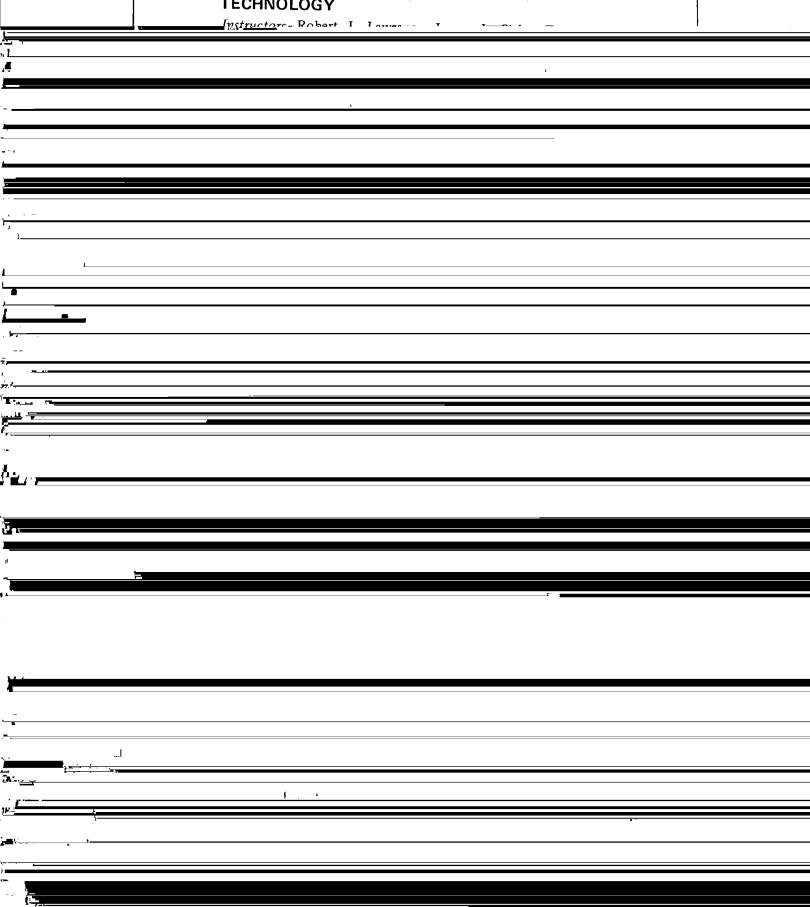
437—Individual Project Laboratory. A seminar project laboratory in which the student makes a scale or full-size model complete with working drawing of a design project selected by the student and approved by the instructor. Class: 3 hours. Credit: 3 semester hours.

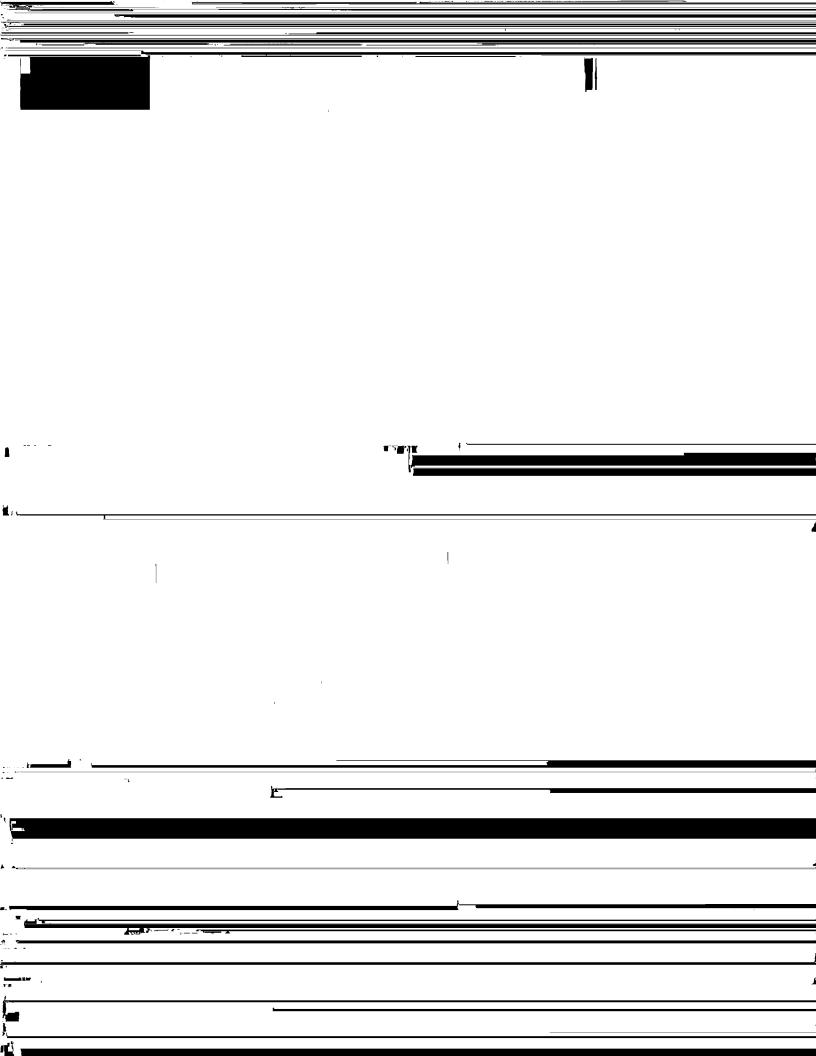




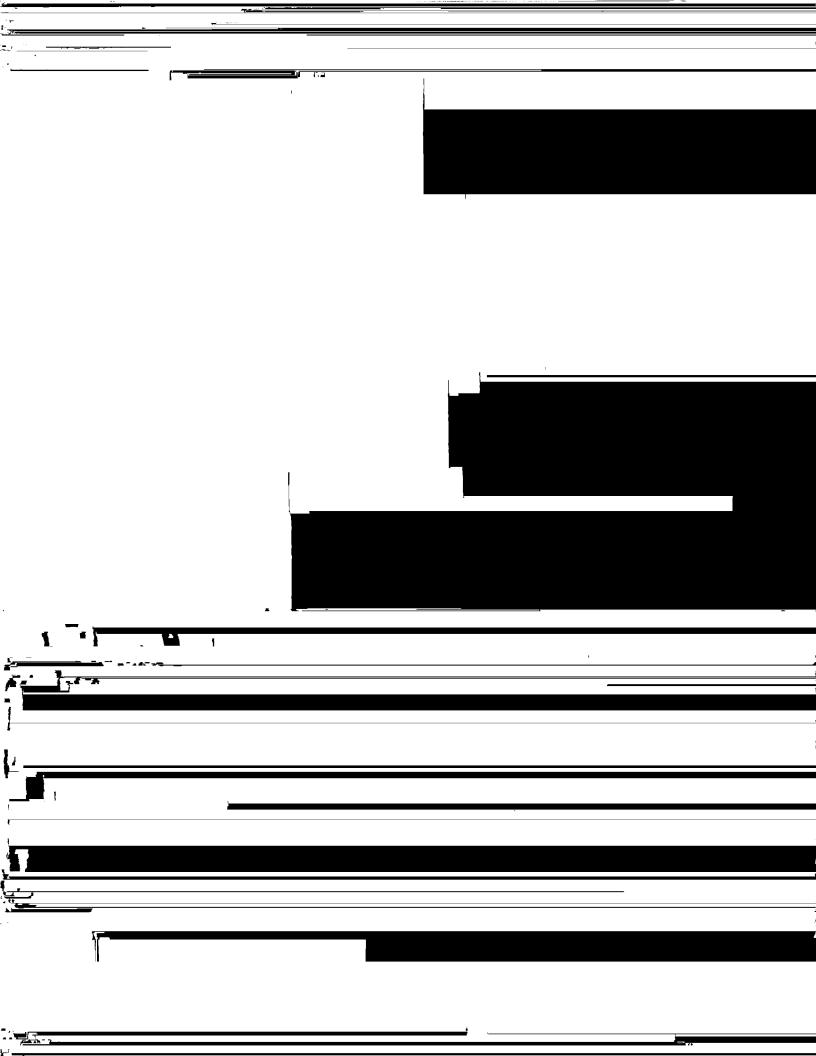
80 TECHNICAL

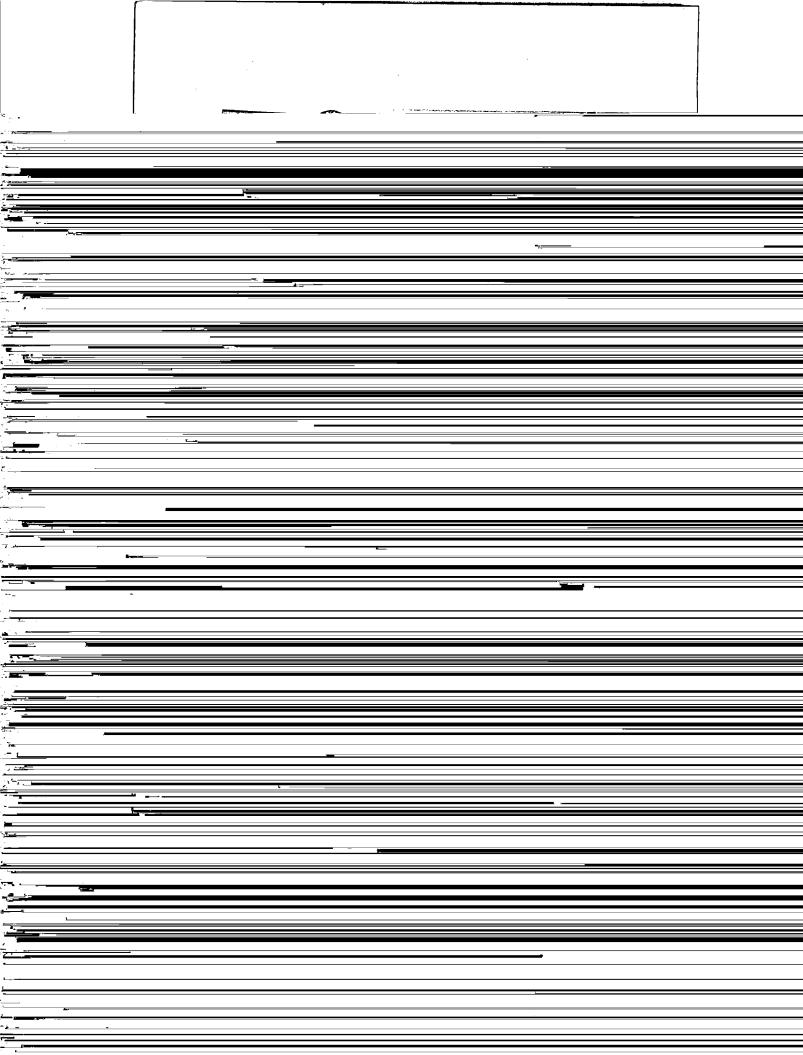
### INDUSTRIAL ELECTRICITY AND ELECTRONICS **TECHNOLOGY**





82 TECHNICAL 232—The Theory and Operation of Transmitters and Receivers. Transmitter circuits, antennas, transmission lines, TRF and superheterodyne receivers, mixer and detector circuits. Prerequisite: IEE 124 and 125. Classically a continuous and transmission lines, TRF and superheterodyne receivers, mixer and detector circuits.





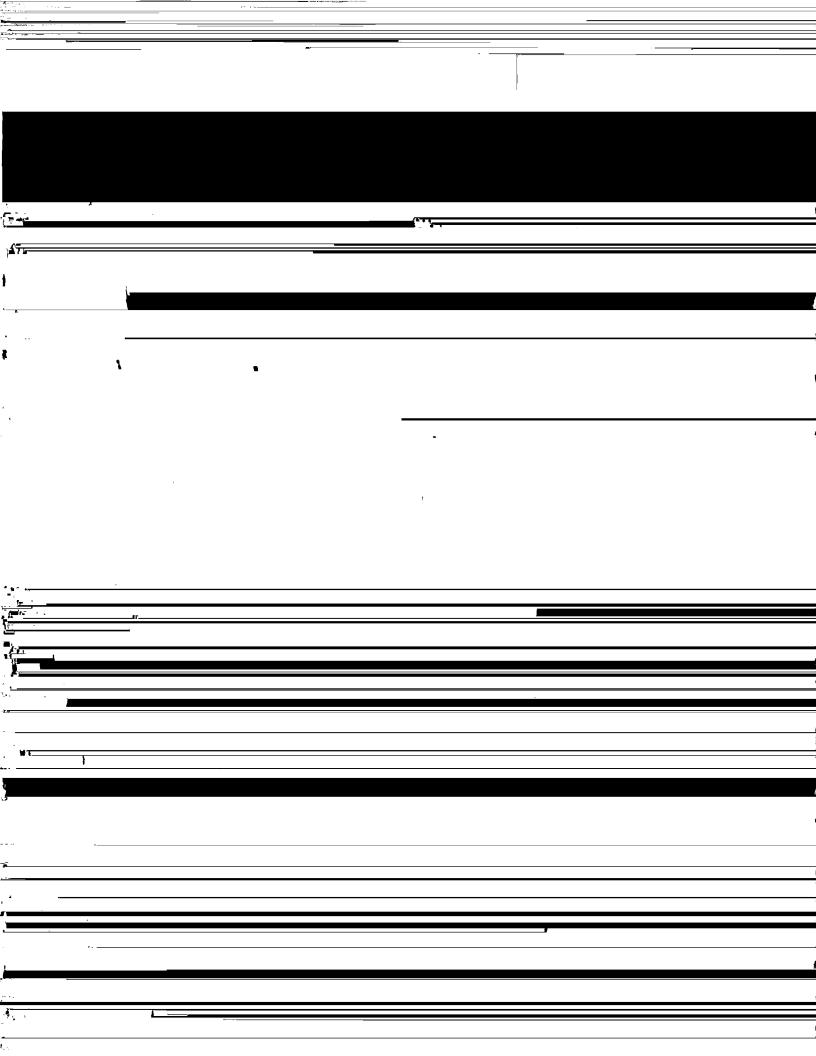
# Adult Training Programs

Certificates of Completion: Industrial Supervision, Law Enforcement Training, Nurse Assistant, Plant Maintenance and Operations, Real Estate

Norman E. Lowrey, Supervisor

### INDUSTRIAL SUPERVISION

This series of courses is planned for business and industry supervisory personnel. Employment in business or industry in a supervisory or leadership position is a prerequisite to registration in supervisory courses. The content of the program



ADULT TRAINING PROGRAMS 87

## LAW ENFORCEMENT TRAINING

Instructor-Edward L. Parker.

The objective of this program is to provide basic law enforcement training to meet the certification requirements for police officers as set by the Texas Commission on Law Enforcement Officer's Standards and Education. The program

### 88 ADULT TRAINING PROGRAMS

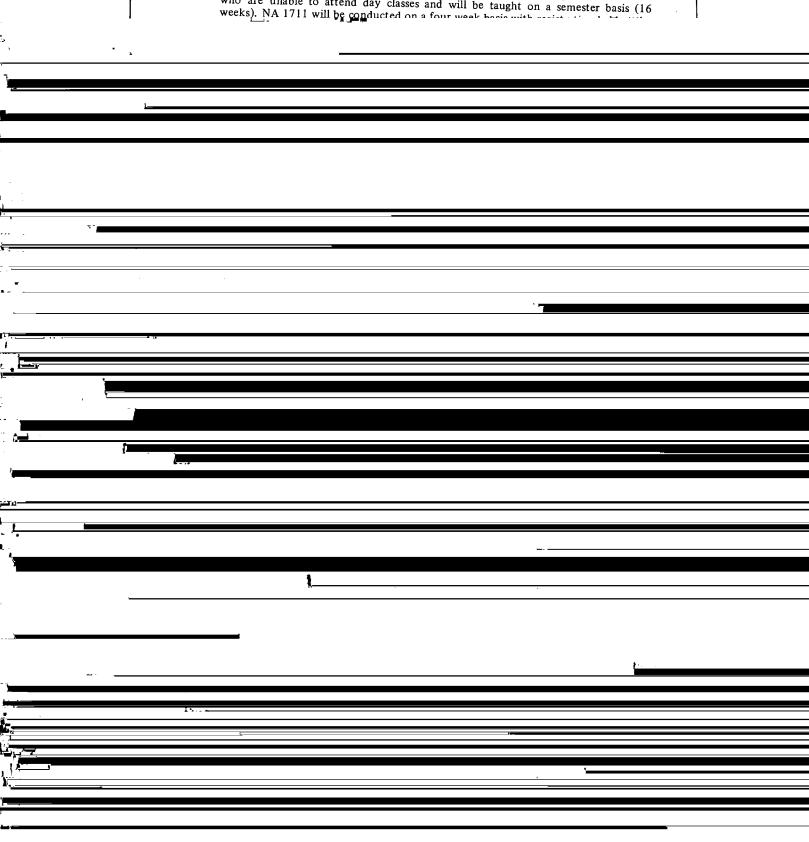
### **NURSE ASSISTANT**

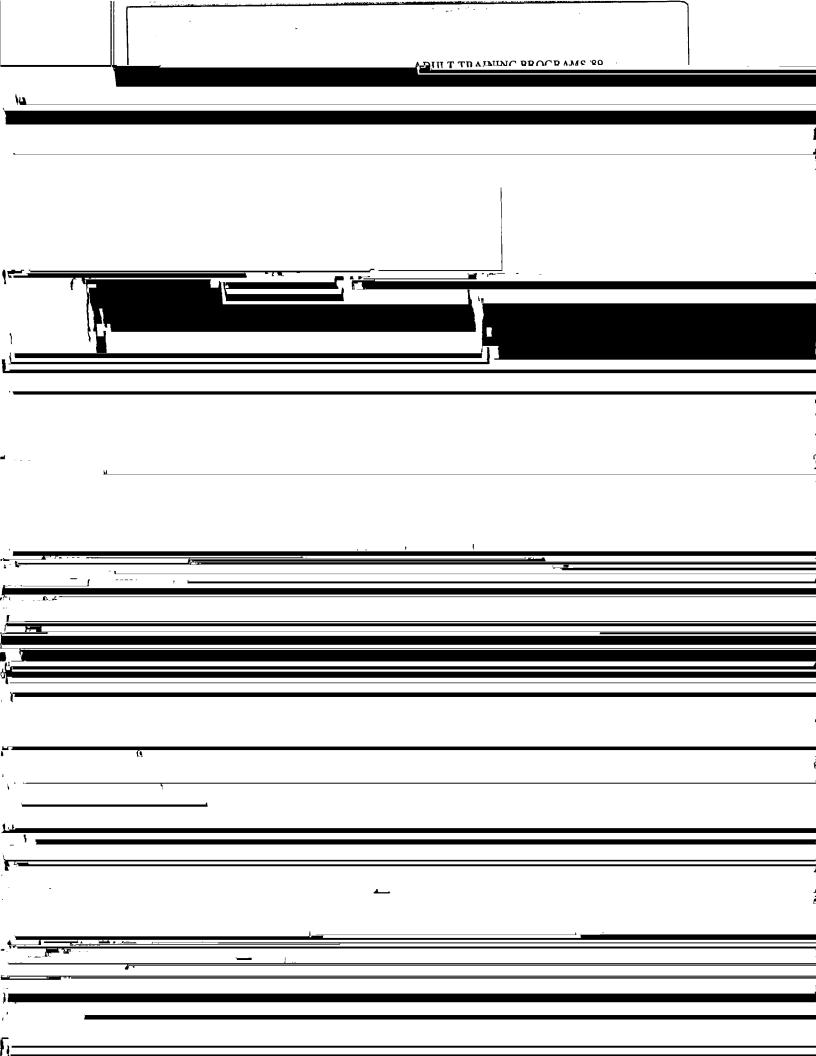
Instructor-Betty F. Jordan.

The objective of this program is to prepare the student for the first level of bedside nursing in hospitals and nursing homes under the direction of nursing and medical staff.

Acceptance in the program is dependent upon available space.

NA 1311 and 1312 will be offered in the extended day program for students who are unable to attend day classes and will be taught on a semester basis (16 weeks). NA 1711 will be conducted on a four week basis with





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# Continuing Education

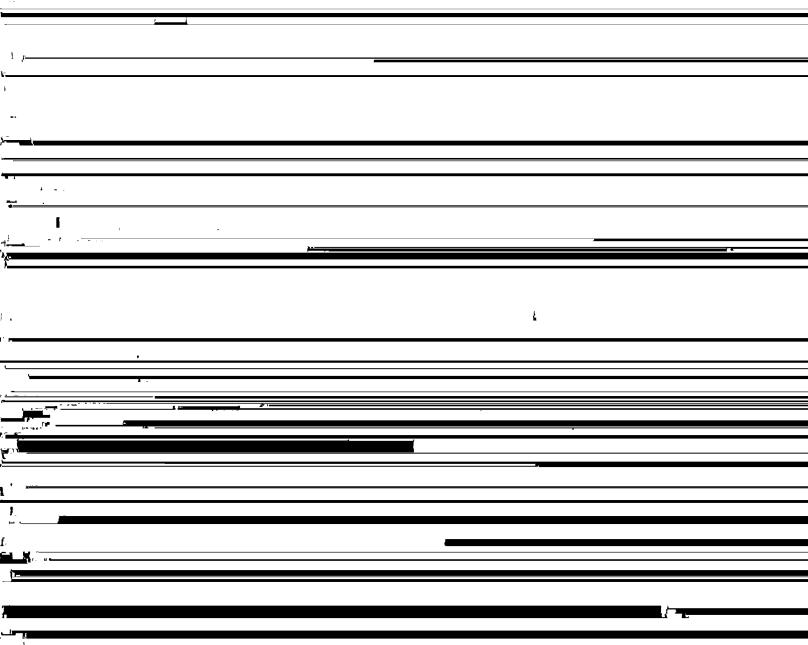
Programs: Conferences and Workshops, Short Courses, Special Training Activities

Joseph Reho, Director James D. Spencer Jack Hill, Coordinators of Continuing Education

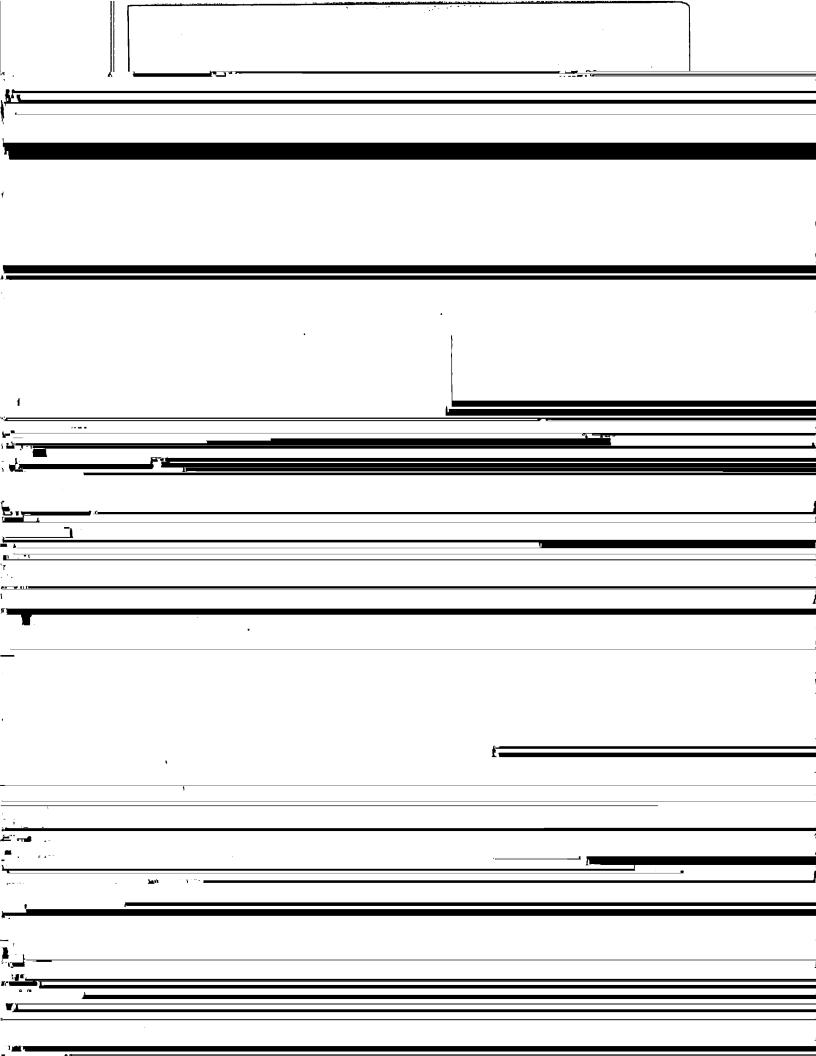
### CONTINUING EDUCATION

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 information and experiences that are useful in helping them solve their problems and achieve their educational and occupational objectives.

Lamar University offers informal non-credit courses for adults in a variety of



# 92 CONTINUING EDUCATION University and the Sabine-Neches Chiefs' Association to train firemen, employed by municipal and industrial fire departments, in the latest techniques of fire fighting. Lunchroom Workshop. A four-day workshop for lunchroom and cafeteria workers, usually conducted in late Summer, designed to improve these workers' performance. Cummins Diesel Engine Workshop. Representatives of the Cummins Diesel



# What Is a Technician? "Technicians who work with engineers and scientists are among the fastest growing occupational groups in the United States. In recent years, the needs of the Nation's defense program, added to those of the expanding civilian economy have greatly intensified the description.

