

LAMAR UNIVERSITY College of Graduate Studies

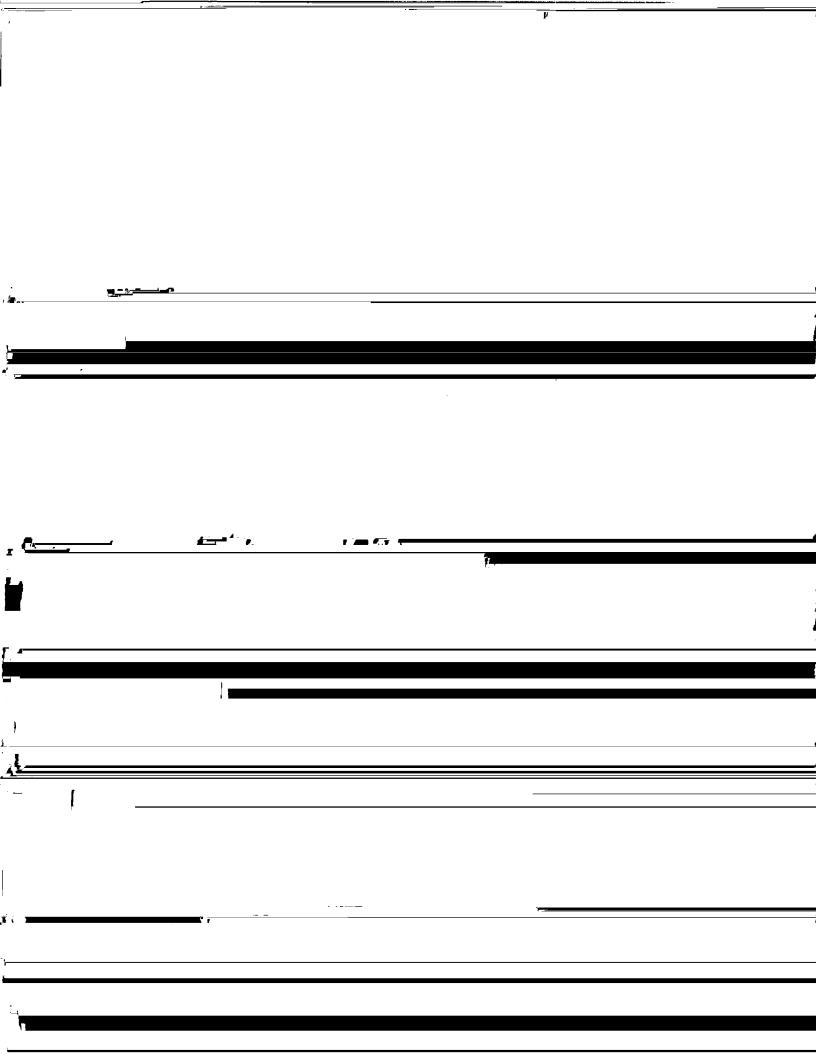
1973-74 Bulletin Vol. 23 No. 7 April 1973

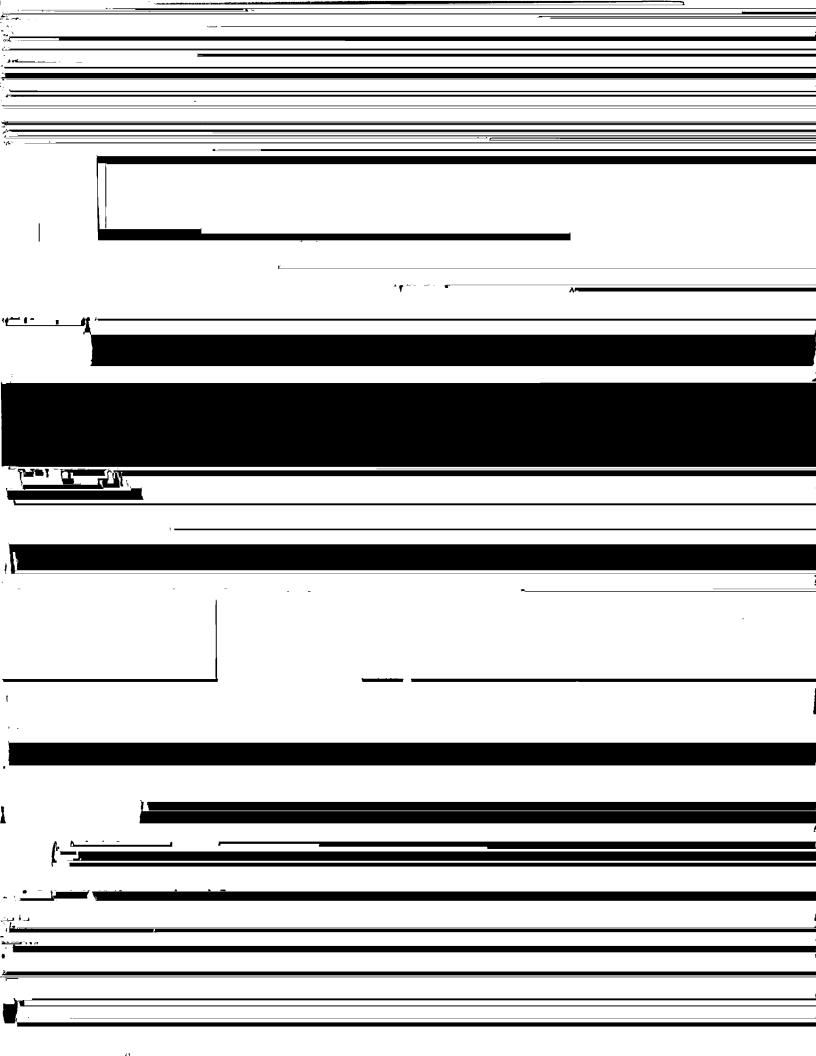
Founded in 1923, and established as a four-year coeducational state-supported college on September 1, 1951.

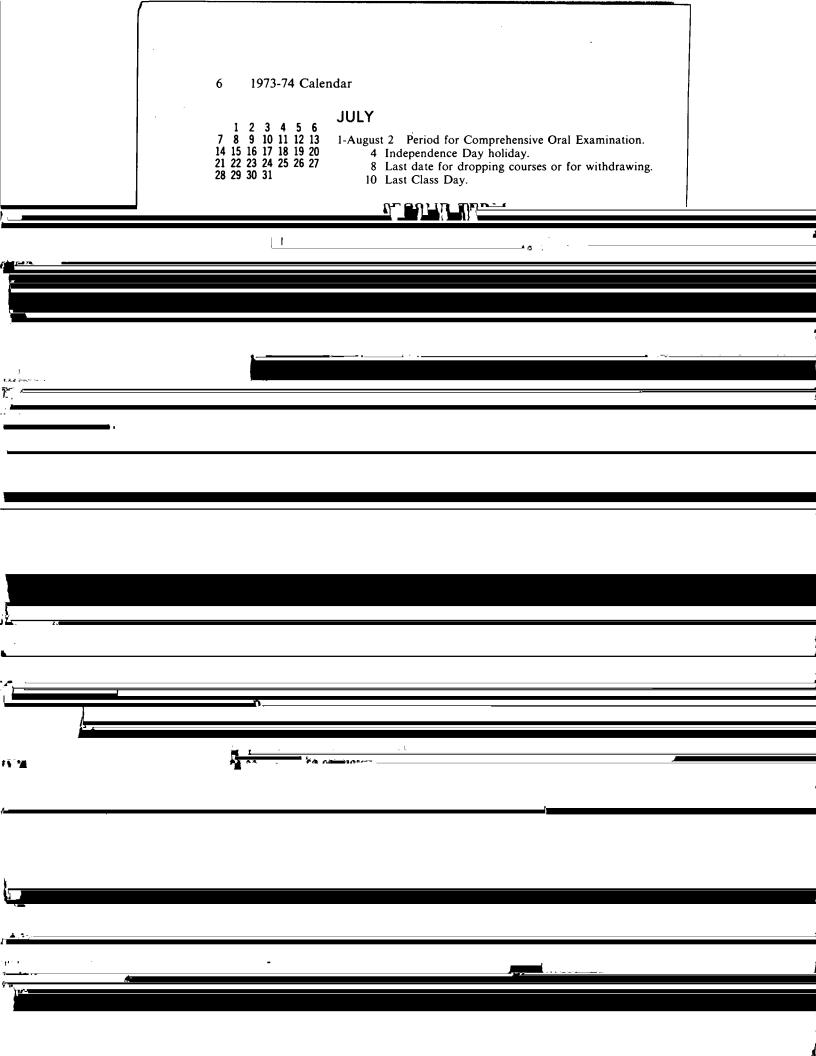
The courses, tuition, and fees and all other conditions and policies set forth in this catalog issue shall be subject to change without notification.

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Board of Regents Board of Regents Otho Plummer ChairmanReaumont



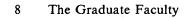




Officers of Administration

GENERAL

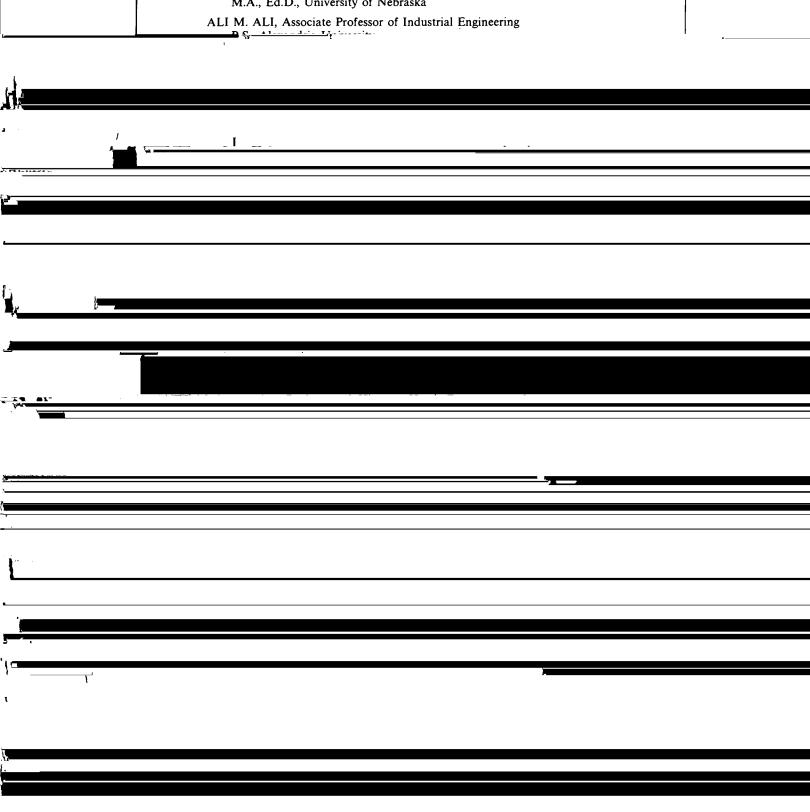
JOHN E. GRAY, B.A., M.A., LL.D., President
ANDREW J. JOHNSON, B.A., M.A., Ph.D., Vice-President for Academic Affairs
H. C. GALLOWAY, JR., B.S., M.Ed., Vice-President for Finance
G. A. WIMBERLY, SR., B.S., Assistant to the President and Personnel Officer
NORRIS H. KELTON, B.A., M.A., Dean of Admissions and Records
OSCAR K. BAXLEY, B.B.A., Business Manager
GEORGE E. McLAUGHLIN, B.S., Dean of Student Affairs

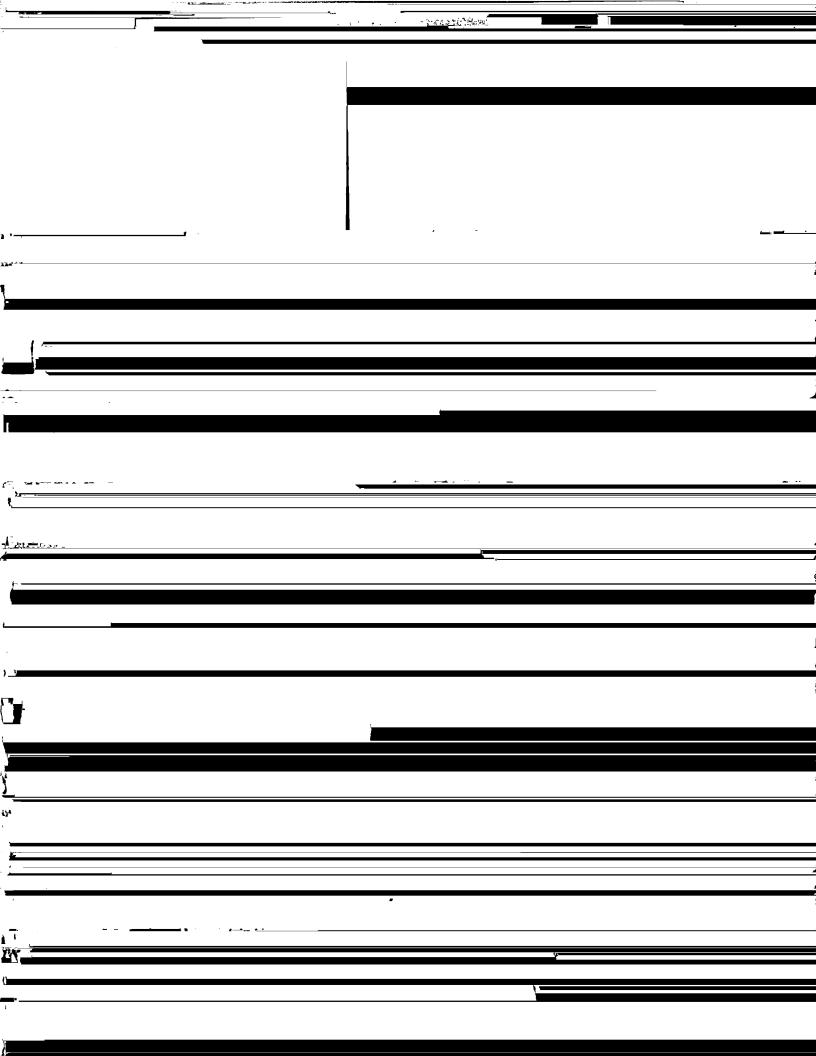


Members

ROBERT F. ACHILLES, Professor of Speech B.S., McPherson College M.A., Ph.D., Wichita State University

HOWARD W. ADAMS, Professor of Secondary Education B.A., Wayne State Teachers College M.A., Ed.D., University of Nebraska

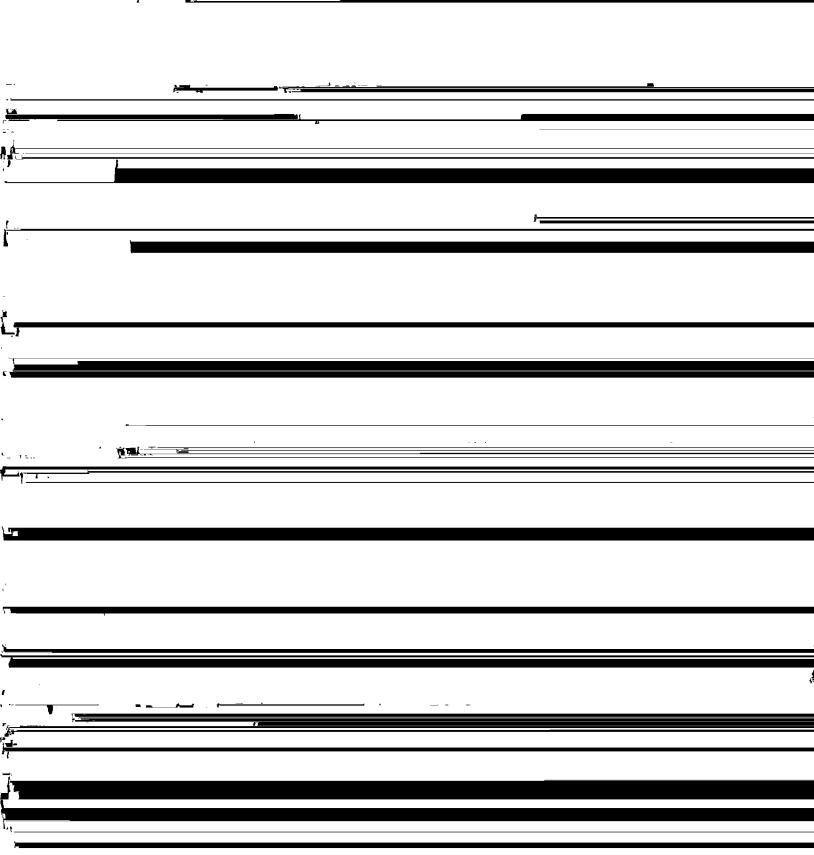




The Graduate Faculty 10 STERING C_CRIM_Professor_of Mathematics

VERNON H. GRIFFIN, Associate Professor of Elementary Education B.S., M.Ed., Sam Houston State University Ed.D., University of Houston

HOWELL H. GWIN, JR., Associate Professor of History B.A. M.A. Ph.D. Mississippi State University



FREDERIC C. JELEN, Professor of Chemical Engineering S.B., S.M., Massachusetts Institute of Technology M.A., Ph.D., Harvard University Registered Professional Engineer (New York, Texas)

ANDREW J. JOHNSON, Professor of History, Vice-President for Academic Affairs

B.A., The University of Texas

M.A., The University of Chicago

M.A., Ph.D., Indiana University

HARVEY J. JOHNSON, Professor of Secondary Education

B.A., Texas College

M.A., University of Michigan

Ed.D., University of Southern California

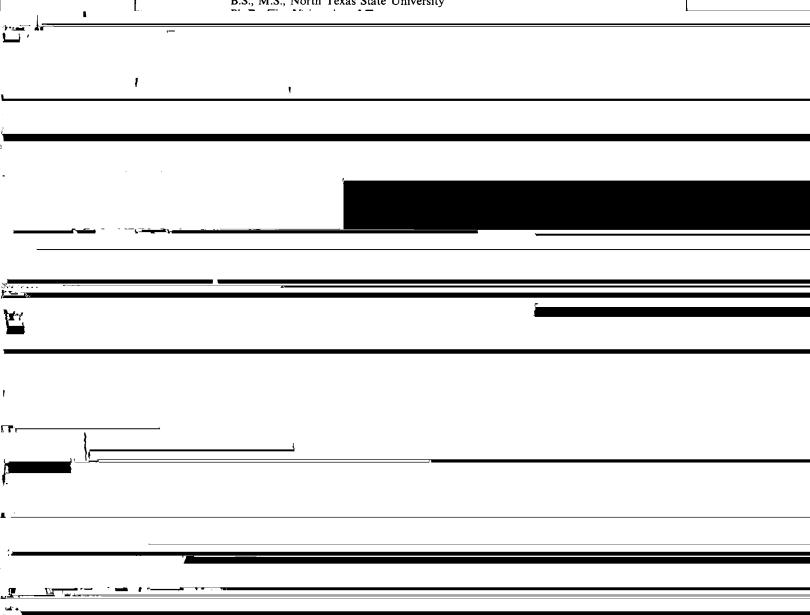
HI KYUNG KIM, Associate Professor Economics

B.B.A., M.B.A., Southern Methodist University

Ph.D., University of Houston

C. D. KIRKSEY, Professor of Business Administration—Head, Department of Business Administration

B.S., M.S., North Texas State University

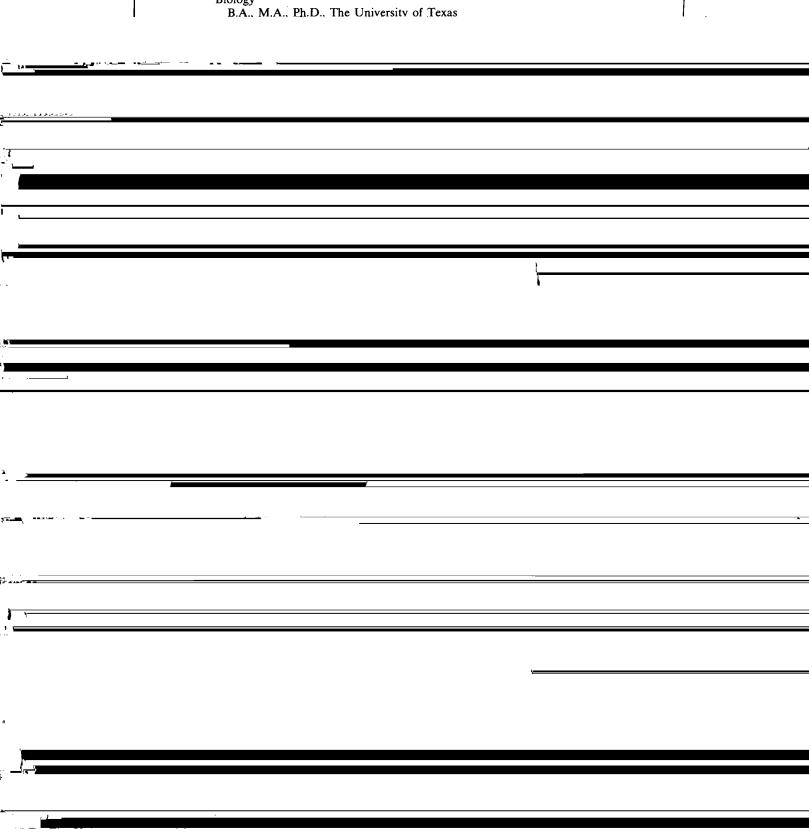


The Graduate Faculty ROBERT A McALLISTER Professor of Chemical Engineering—Head. Denartment of . 14 The Graduate Faculty CHARLES A. PARTIN. Professor of Fconomics Head-Department of Fconomics }

The Graduate Faculty 15 MONTY L. SONTAG, Professor of Special Education—Head, Department of Special

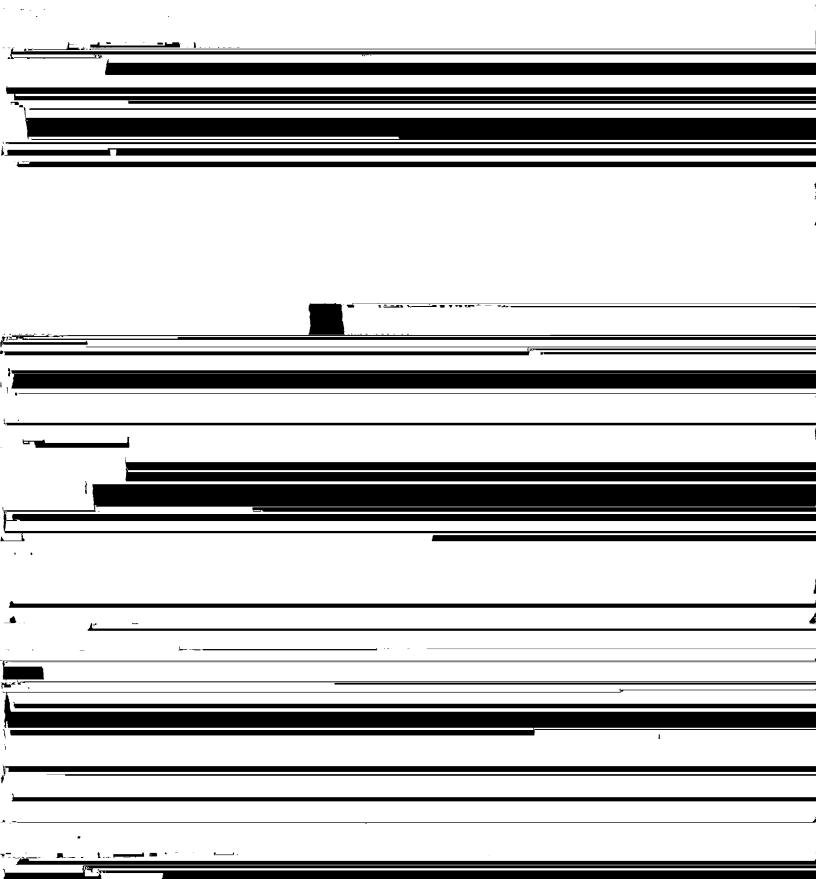
RICHARD E. WALKER, Professor of Chemical Engineering B.S., Purdue University M.S., Bucknell University Ph.D., Iowa State University Registered Professional Engineer

MICHAEL E. WARREN, Associate Professor of Biology—Head, Department of Biology
B.A., M.A., Ph.D., The University of Texas



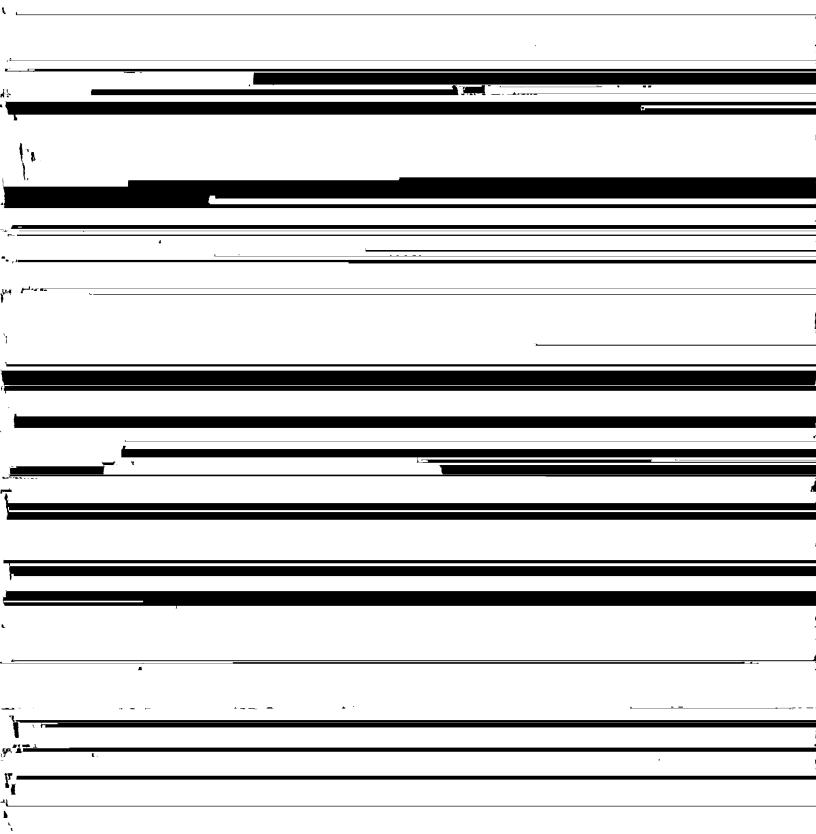
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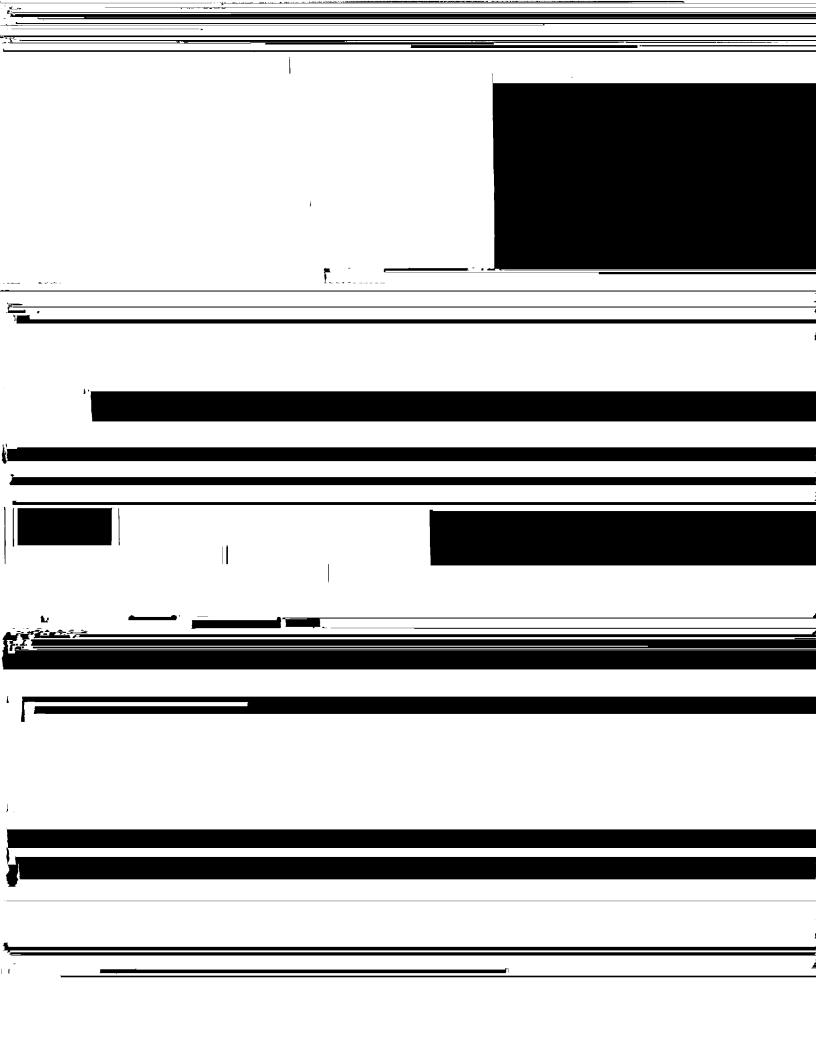
SPENCER L. BRINKERHOFF, JR., Assistant Professor of Civil Engineering B.S., University of Arizona M.S., Ph.D., Arizona State University



WILLIAM E. MORGAN, Assistant Professor of Civil Engineering B.S., U.S. Naval Postgraduate School M.S., University of Alaska Ph.D., The University of Texas
J. DALE ORTEGO, Assistant Professor of Chemistry B.S., University of Southwestern Louisiana

Ph.D., Louisiana State University
WILLIAM M PEARSON Assistant Professor of Government





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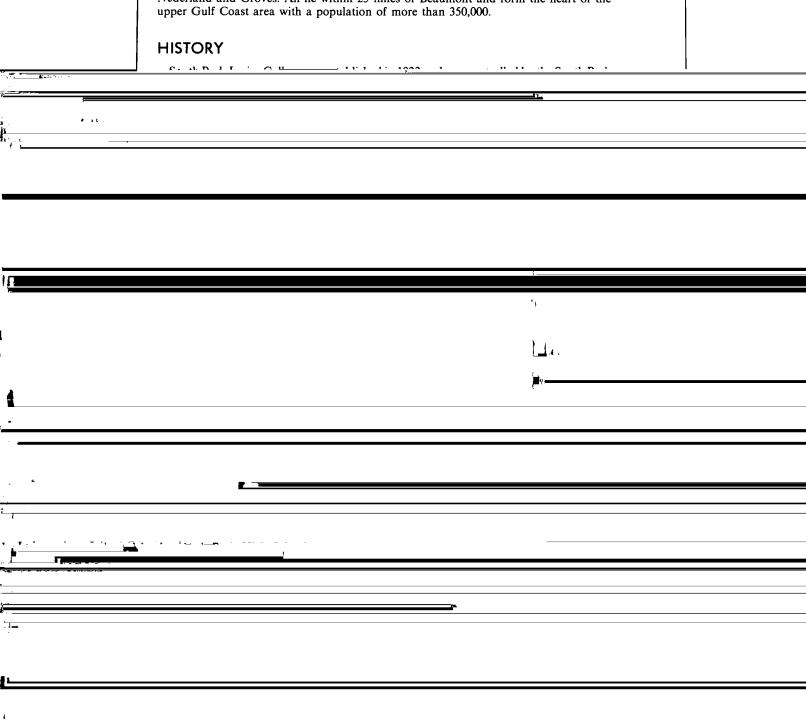
General Information

LOCATION

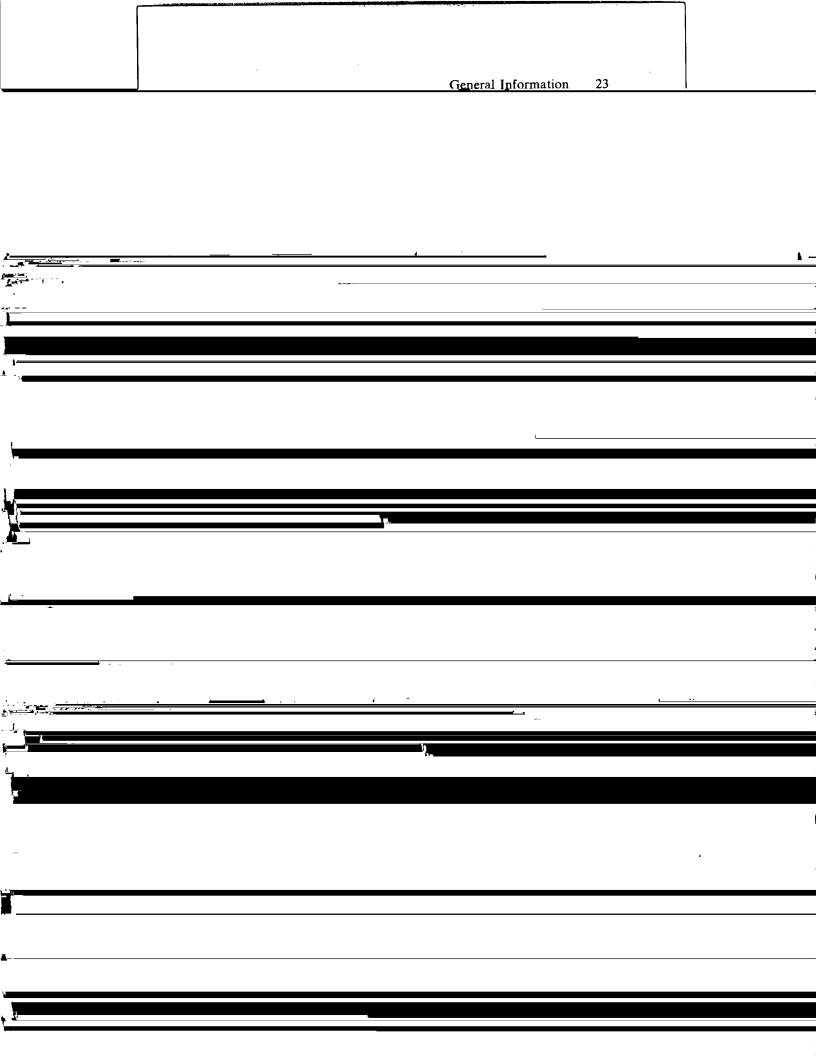
Lamar University, a state-supported institution, is located in Beaumont, the center of industrial Southeast Texas. The campus is adjacent to the Port Arthur Highway (Spur 380) in southeastern Beaumont.

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 metropolitan area are the cities of Port Arthur, Orange, Vidor, Port Neches, Nederland and Groves. All lie within 25 miles of Beaumont and form the heart of the upper Gulf Coast area with a population of more than 350,000.



22 General Information **ACCREDITATION AND APPROVAL** Lamar University is fully accredited by the Association of Texas Colleges and Universities and by the Southern Association of Colleges and Schools. The College of Graduate



24 General Information

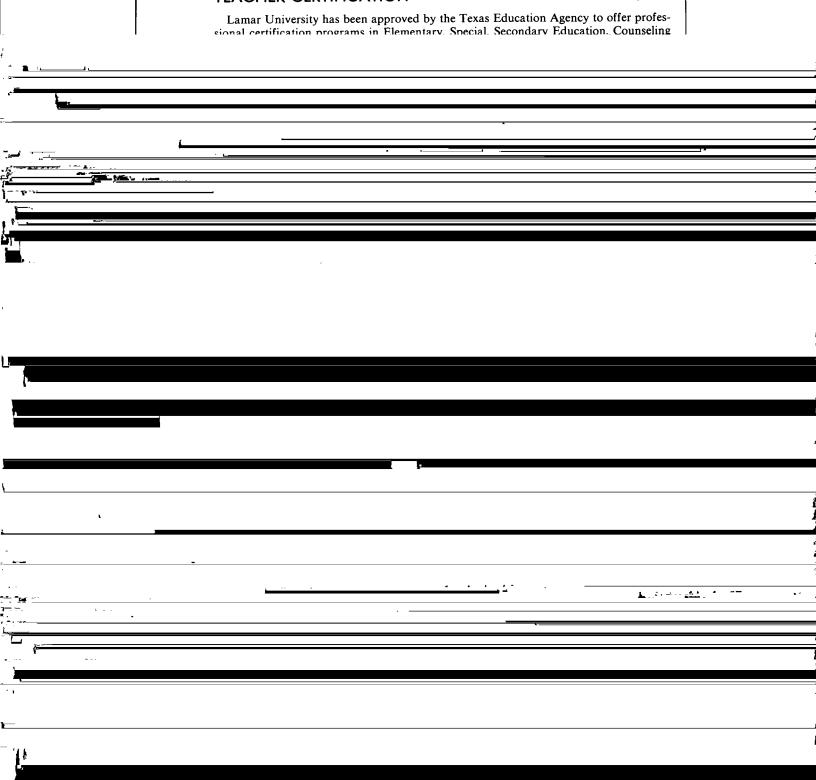
TEACHING FELLOWSHIPS

A number of teaching fellowships are available in the various departments of the College of Graduate Studies. Application forms and additional information may be obtained from the Dean of the College of Graduate Studies.

The stipend for a teaching fellowship varies in accordance with the number of courses taught, and the student must reduce his academic load in relation to his teaching assignment.

Tuition and fees are not waived for teaching fellows, but nonresidents (out of Texas) are not required to pay out-of-state tuition.

TEACHER CERTIFICATION



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.

A student is not registered until his 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.

26 Fees and Expenses

Term	No. of Semester Hours	Tuition				Student Services	Building Use	Setzer Center	Total Charge			
		1	В	c	D	Fee	Fee	Fee	1	В	С	D
Each	1	\$25	\$40	\$50	\$100	\$ 3	\$13	\$5	\$46	\$61	\$71	\$121
Six-	2	25	80	50	100	6	13	5	49	104	74	124
Week	3	25	120	50	100 أ	9	13	5	52	147	77	127
Summer	4	25	160	66	100	12	13	5	55	190	96	130
Session	5	25	200	83	100	15	13	5	58	233	116	133
	6	25	240	100	100	15	i3	5	58	273	133	133
	7	28	280	117	100	15	13	5	61	313	150	133
	8	32	320	133	112	15	13	5	65	353	166	145
	9	36	360	150	126	15	i3	Š	69	393	183	159
	10	40	400	167	140	15	13	5	73	433	200	173

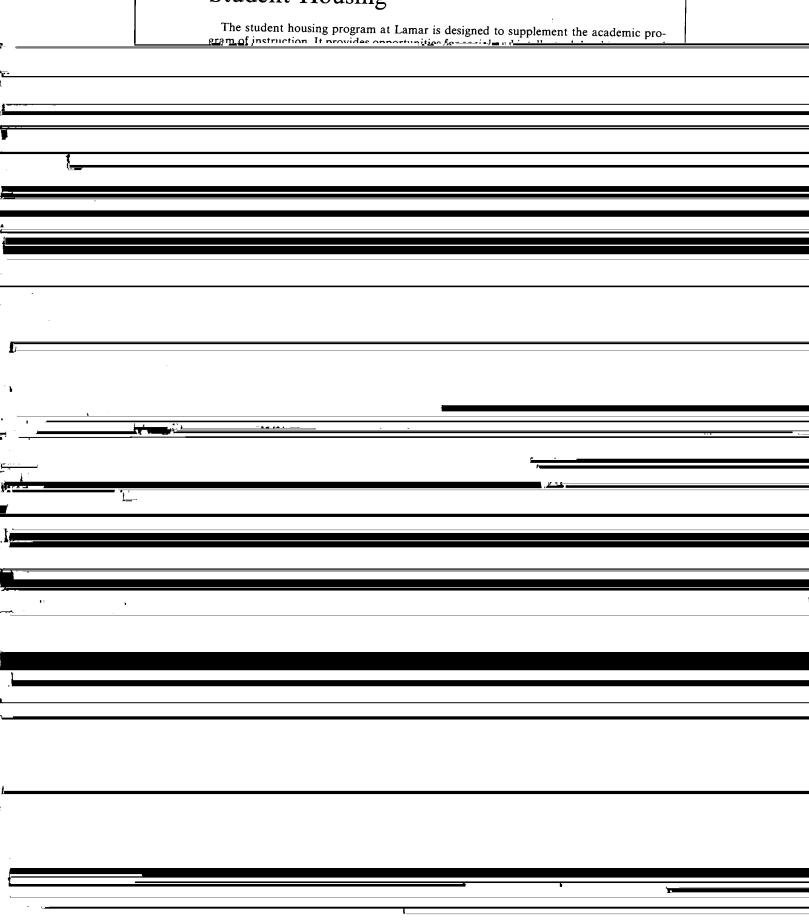
Code: A, Texas residents; B, nonresidents who are U.S. citizens; C, nonresidents who are U.S. citizens; C, nonresidents



Fees and Expenses 27 Miscellaneous Fees Rinding Thesis (3 copies) \$18.00 ŢŲ.

28 Fees and Expenses

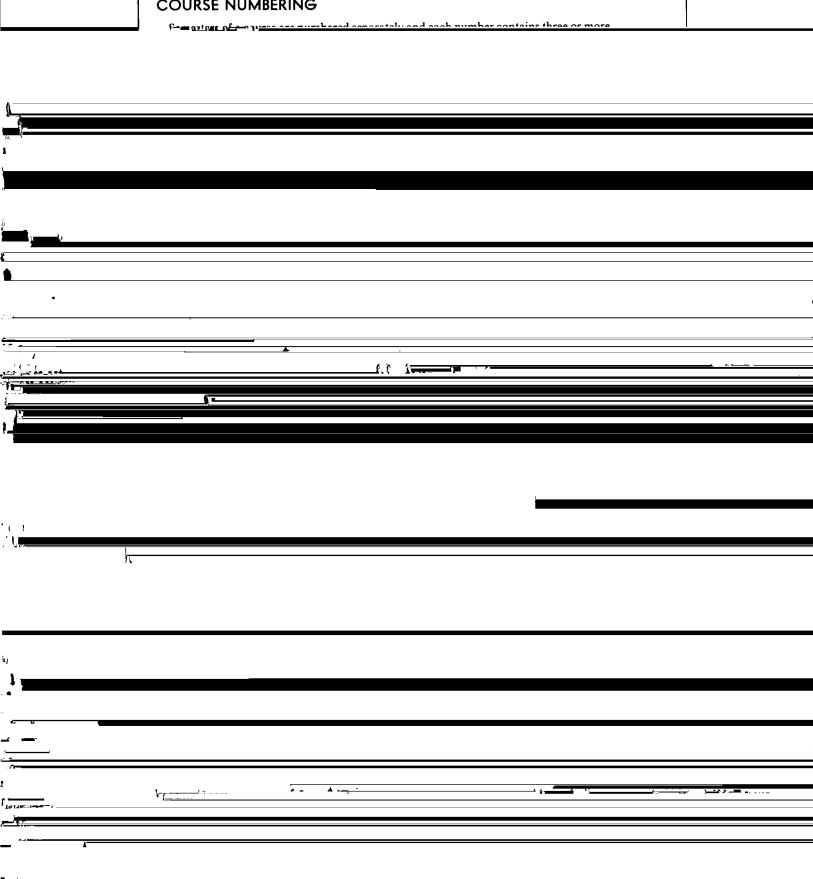
Student Housing



Academic Regulations 29

Academic Regulations

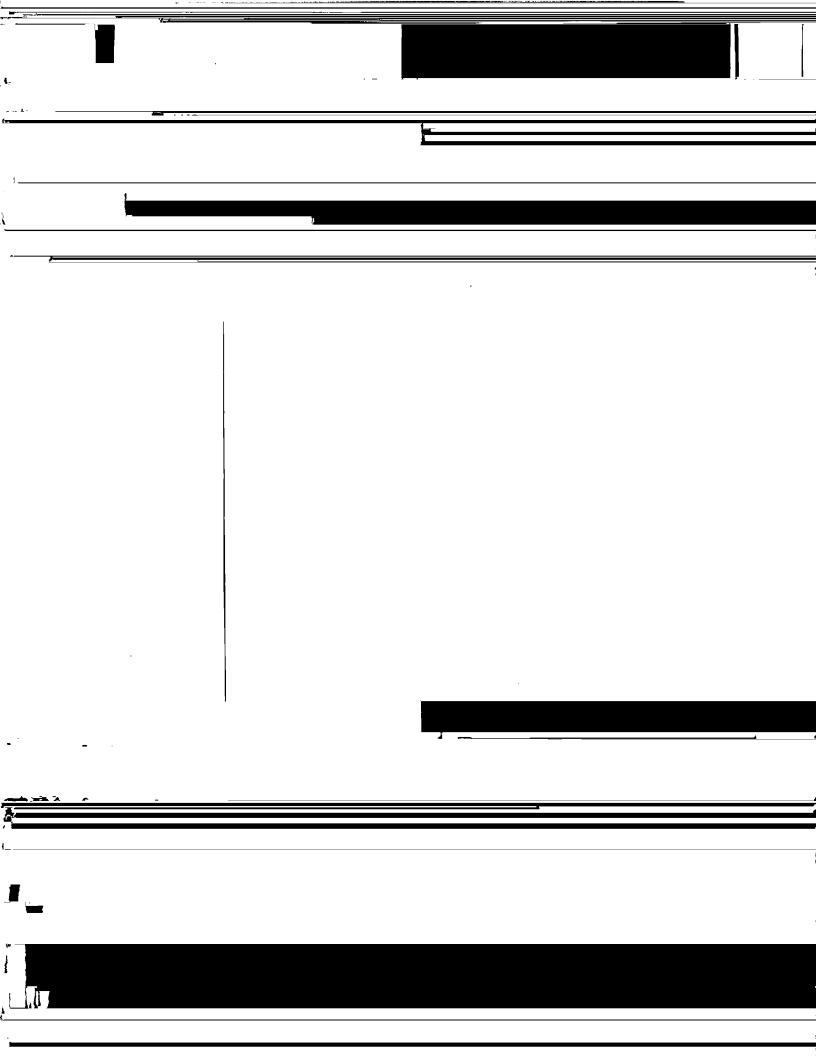
COURSE NUMBERING



30 Academic Regulations

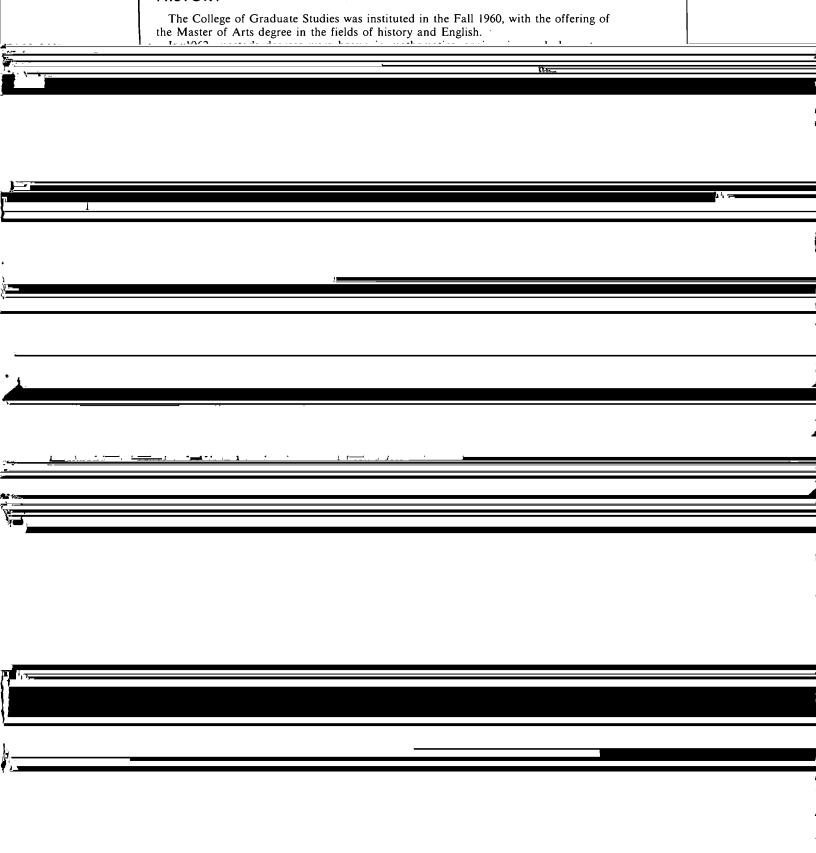
ENFORCED WITHDRAWAL DUE TO ILLNESS

The Director of the Health Center and the Dean of Student Affairs, on the advice of competent medical personnel, may require withdrawal, or deny admission, of a student for health reasons (mental or physical).



The College of Graduate Studies

HISTORY

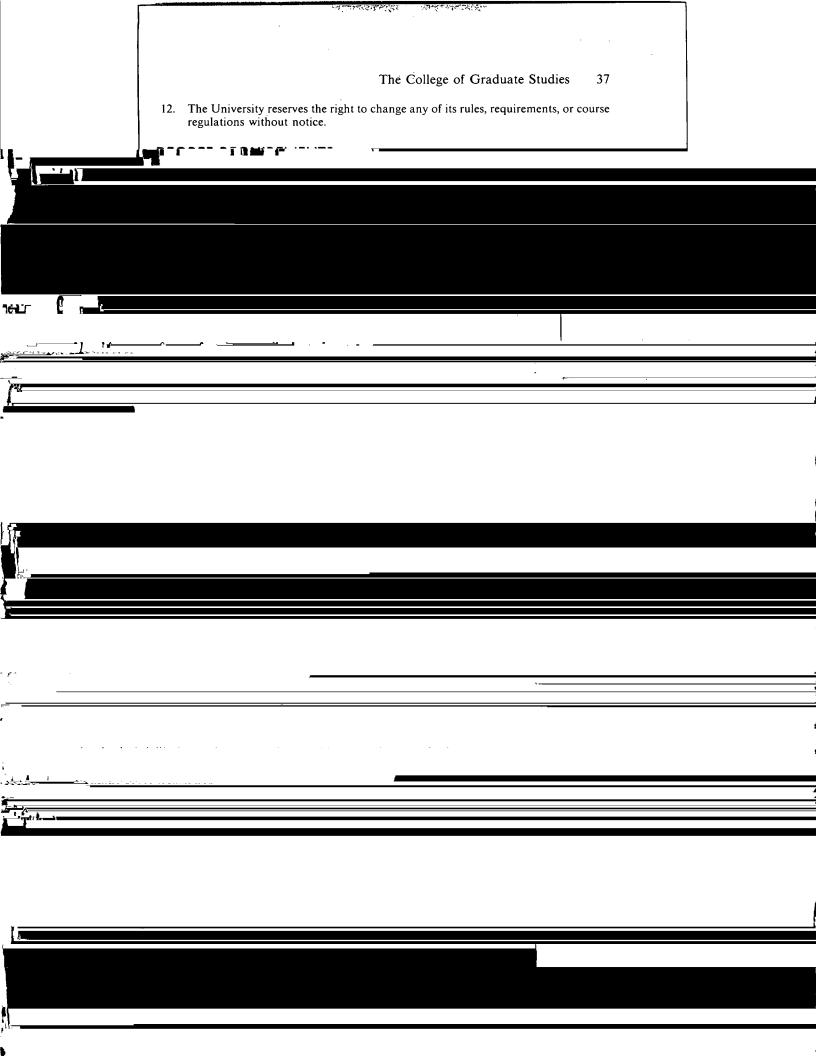


The College of Graduate Studies 34 **ENROLLMENT** Admission Applicants seeking admission to the College of Graduate Studies must present evidence **}**_

The College of Graduate Studies 35

- C. Admission requirements for foreign students are evaluated on an individual basis after the following information is received:
 - (1) Official transcripts from colleges previously attended.
 - (2) Scores on the Graduate Record Examination, and scores on the Test of

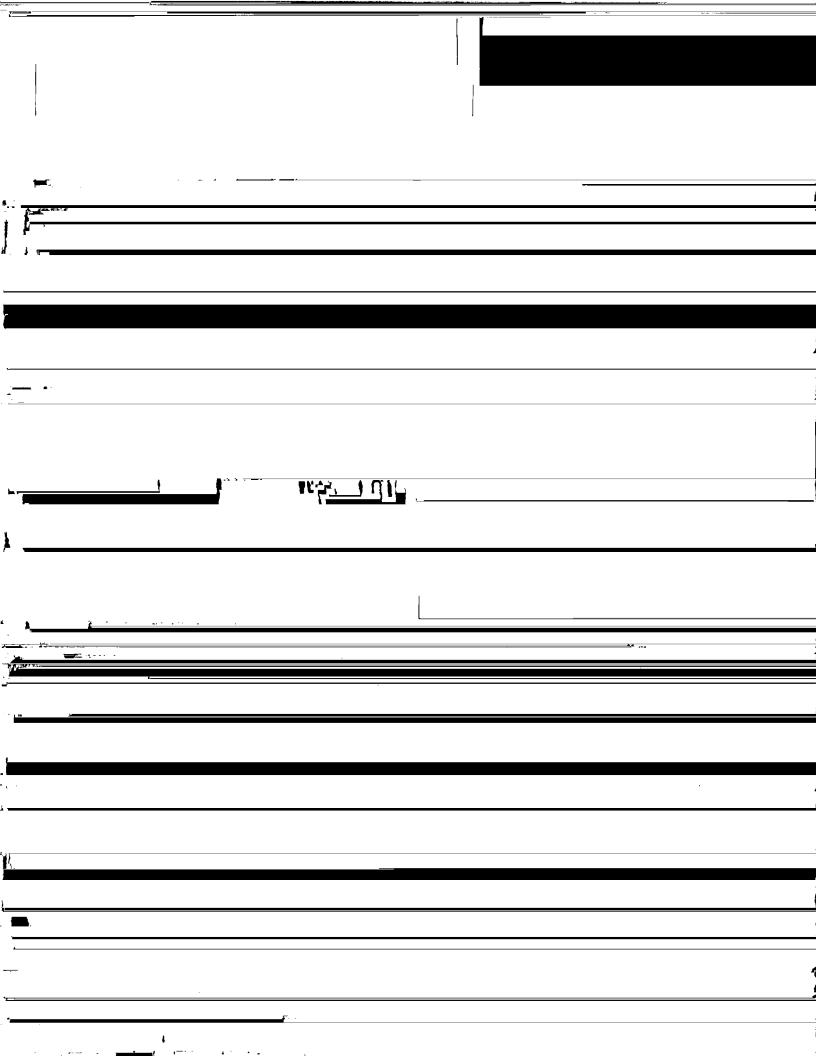
36 The College of Graduate Studies COLLEGE OF GRADUATE STUDIES REQUIREMENTS General



38 The College of Graduate Studies The College of Graduate Studies 39

Doctor of Engineering

A student will be admitted to candidacy for the doctor of engineering degree only upon the recommendations of his doctoral committee. In general this committee will require the following:



Fields of Study

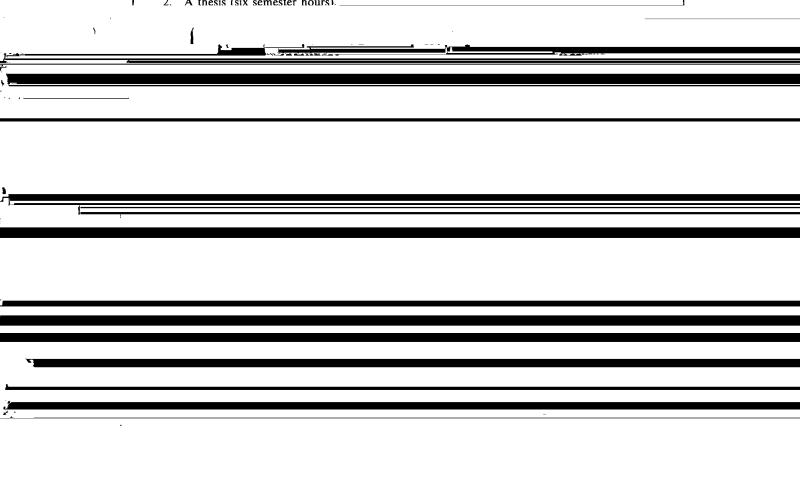
Department of Biology

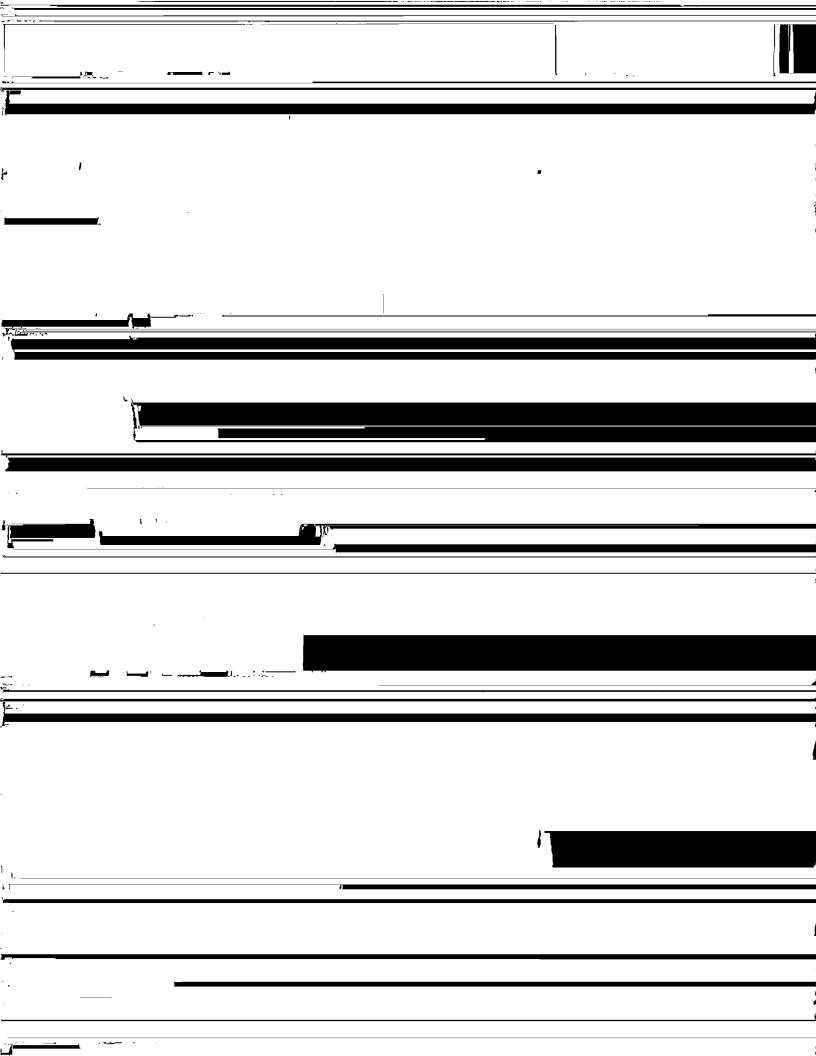
The Department of Biology offers a program of study leading to the Master of Science in Biology degree. It is designed to enhance the professional competence of graduates in biology or closely related disciplines who are presently engaged in or planning to enter secondary school or college teaching, or who expect to be employed by private or governmental agencies in biologically oriented fields. Applicants must have completed a minimum of 24 semester hours in the biological sciences, or remove any deficiencies as provided in the section on Admission.

DEGREE REQUIREMENTS

The candidate for the M.S. in Biology degree must meet all the College of Graduate Studies general requirements as listed in this catalog. Additional specific requirements

- Twenty-four semester hours of graduate credit which may include a maximum of 12 semester hours in approved 400G level biology courses with augmented require-
- A thesis (six semester hours).





graduate advisor and Department Head. Course descriptions may be found in the Bulletin of Lamar University.

Bio 440G—Ornithology Bio 441G—Parasitology Bio 442G—Entomology Bio 443G—Limnology Bio 444G—Vertebrate Natural History

Bio 445G—Marine Biology

Bio 446G—Terrestrial Ecology Bio 447G—Cellular Biology Bio 449G—Protistology

44 College of Business

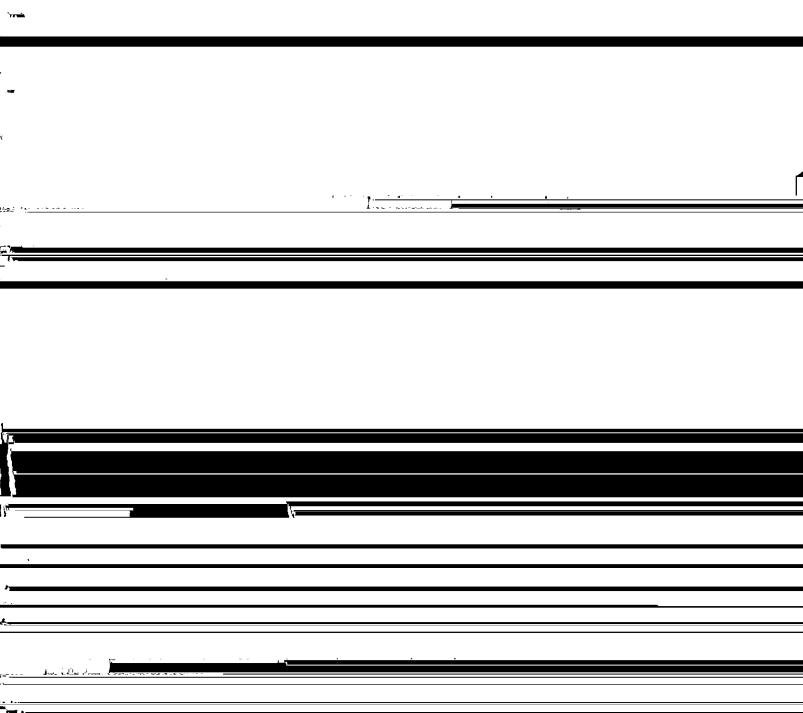
College of Business

The College of Business offers a program of study leading to the Master of Business Administration degree. Persons seeking admission to this program must meet the general requirements for admission that are outlined in the Graduate Catalog. An applicant must also have completed the equivalent of the following undergraduate courses in business:

College of Business 45

Eco 5301—Money and Capital Markets

Fco 5341—Mannower



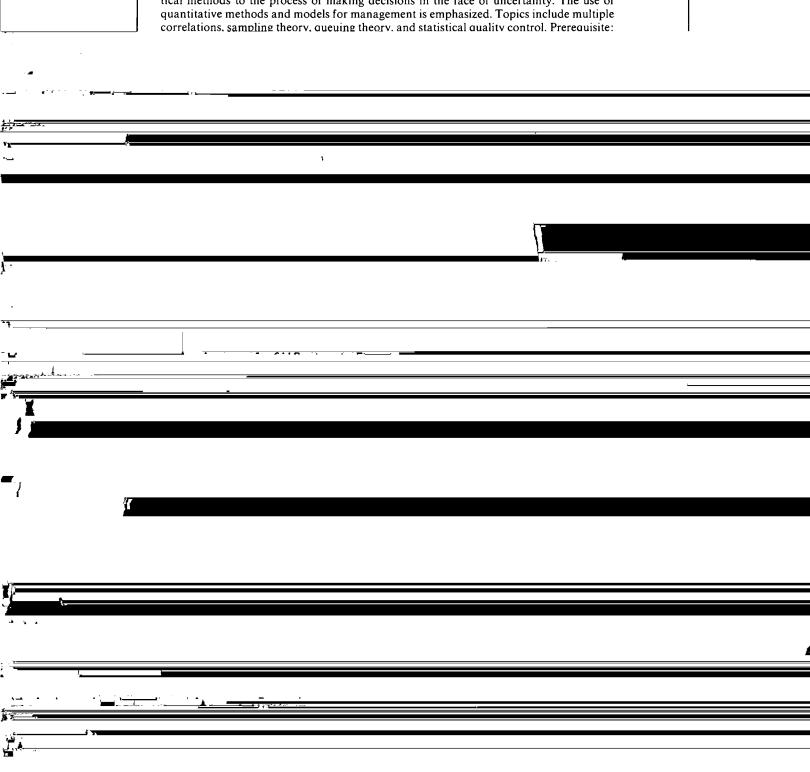
College of Business 46 Professor Reginald Rushing Accounting Associate Professor Malcolm W. Veuleman Accounting Associate Member Assistant Professor Larry W. Spradley . **Business Administration** Accounting courses will be selected from the following list: 534—Seminar in Accounting. A course designed to broaden the student's concept of

College of Business 47

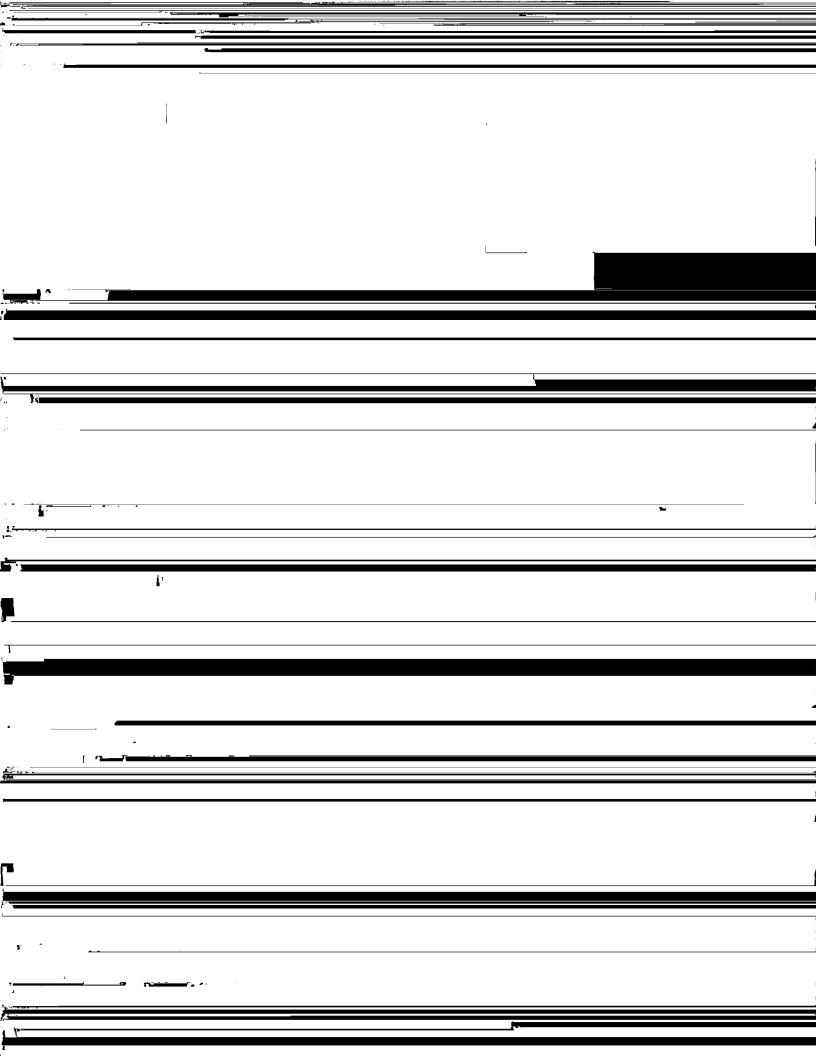
individuals and groups. The case-study approach is utilized. Class: 3 hours. Credit: 3 semester hours.

539—Quantitative Analysis Control. A course designed to help the student examine the decision-making function through the use of model building and other mathematical procedures. Emphasis is on the selection of a model or a tool for a particular business problem. Problem areas are drawn from the major functions of an organization. The techniques covered include decision making under uncertainty, inventory analysis, linear programming. Markov analysis, and project-planning models. Prerequisite: BA 3302 and mathematical competence. Class: 3 hours. Credit: 3 semester hours.

5310—Advanced Statistical Analysis. Further development of the application of statistical methods to the process of making decisions in the face of uncertainty. The use of

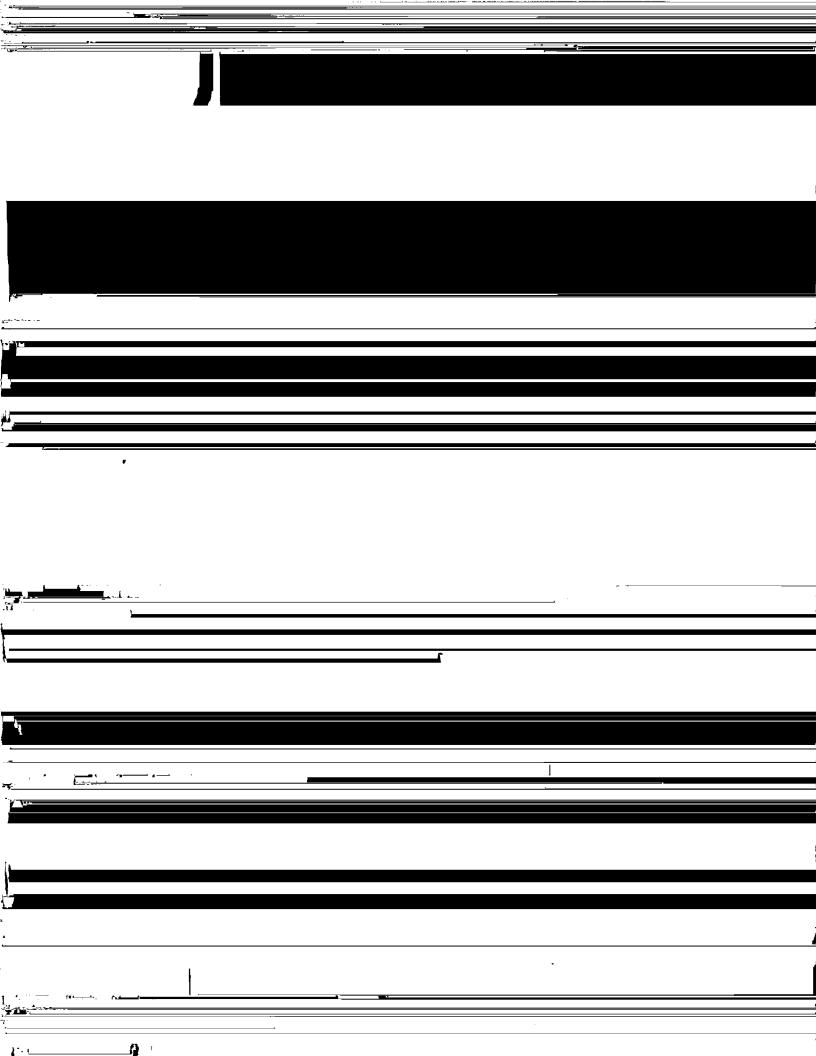


48 College of Business America's economic development, past, present, and potential. Prerequisites: 6 hours of economics or consent of instructor and graduate standing. Class: 3 hours. Credit: 3 semester hours. 537—Managerial Economics. A study in depth of the principles and techniques of



50 Department of Chemistry Department of Chemistry

The Department of Chemistry offers a program of study leading



Department of Chemistry 52 5371—Selected Topics in Physical Chemistry. May be repeated a maximum of six semester hours when topic varies. Description of course content will appear in schedule

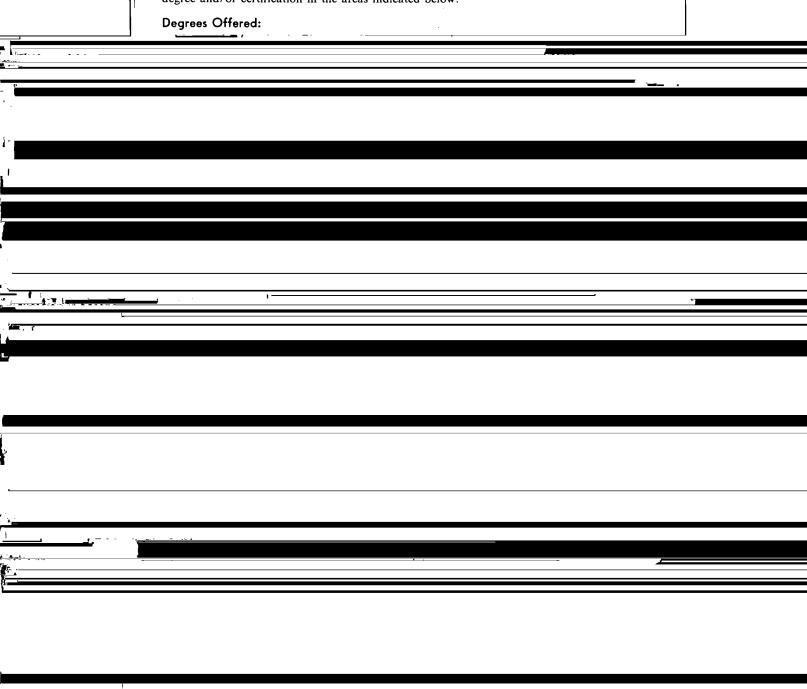
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College of Education

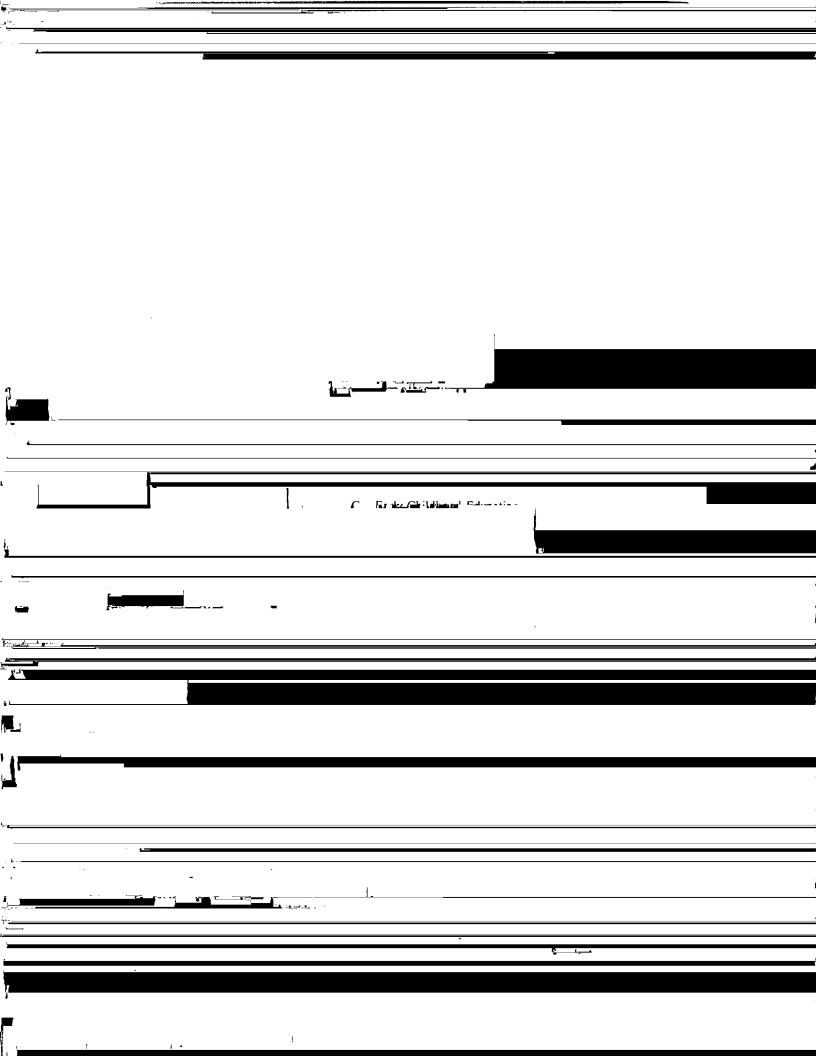
Graduate degree and certification programs are offered by the departments of Elementary, Secondary, Special and Health and Physical Education. These programs of study are described in the following pages.

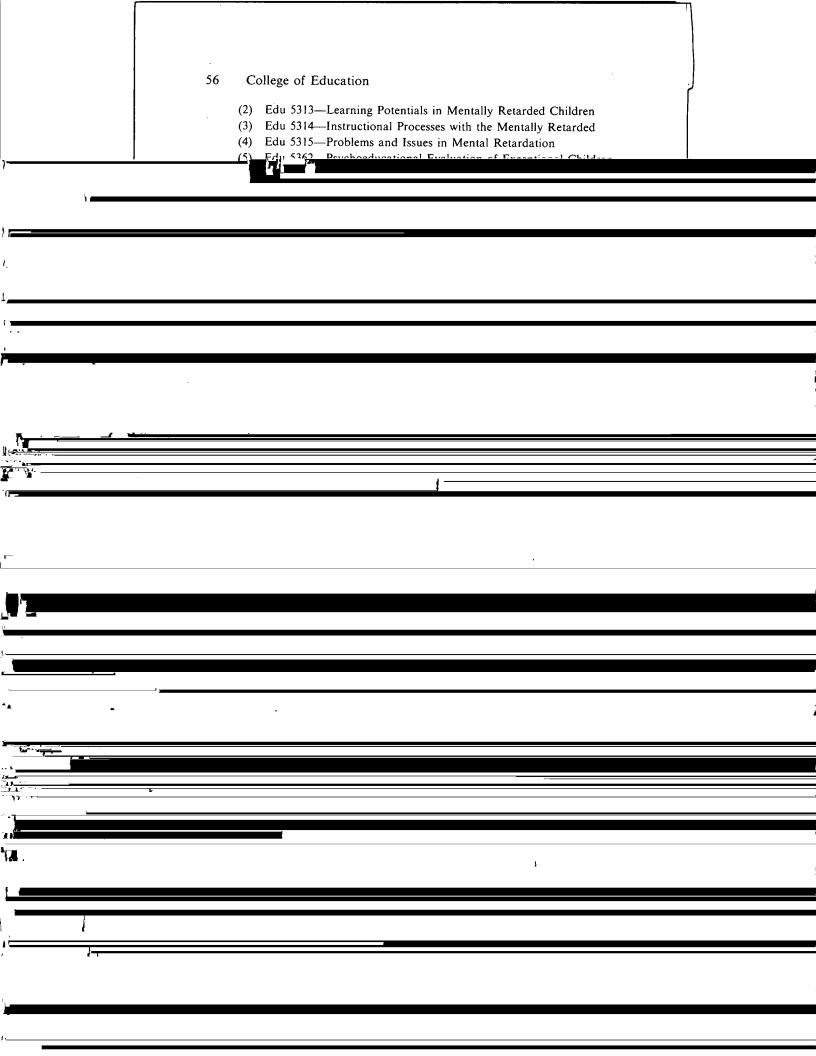
DEPARTMENTS OF EDUCATION

The above departments offer programs of study leading to the Master of Education degree and/or certification in the areas indicated below:



College of Education 54 7. The student who does not choose to write a thesis must earn a minimum of 36 hours





Students may obtain Provisional certification in the above listed areas. A combination

College of Education 58 Other Certificates It is possible for graduate students to complete requirements for a Provisional Teaching

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Degree Plan in Supervision

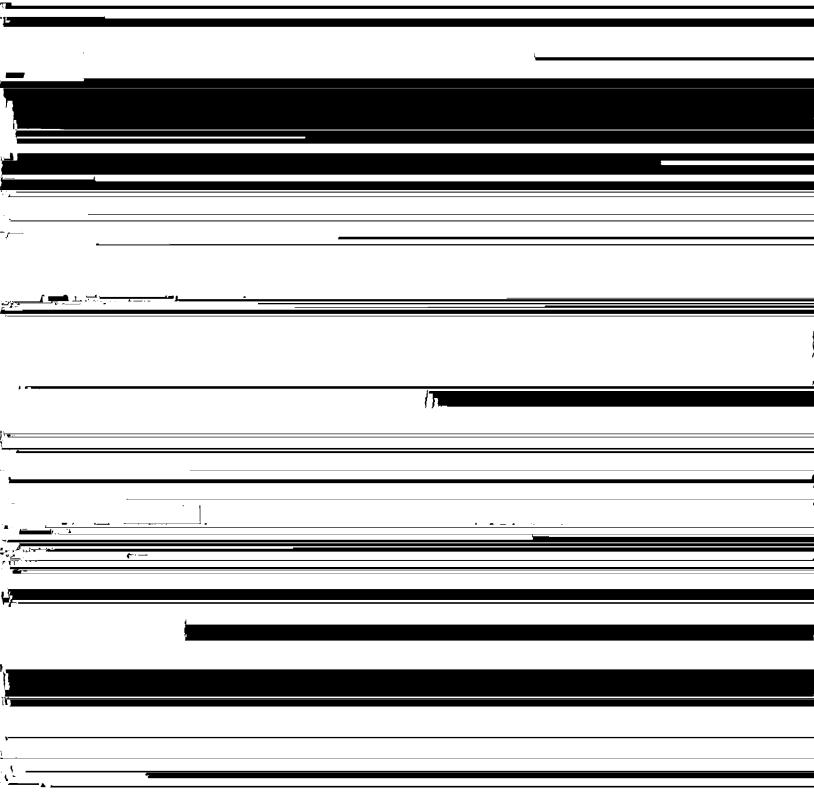
Requirements for a Master of Education in Supervision may be met by completing a 36 semester hour nonthesis program or by completing a 30 semester hour plan that includes a thesis. The student is allowed some flexibility in planning his program; however, the usual pattern of course work is as follows:

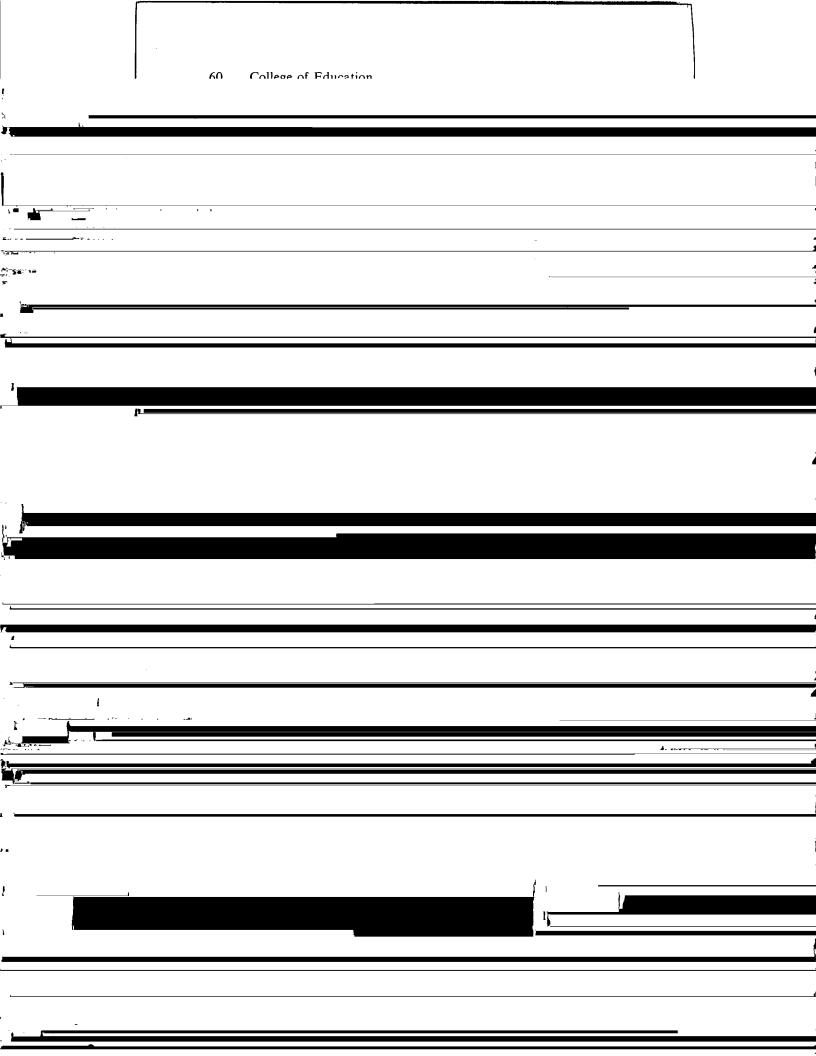
1. Professional Development. Six semester hours.

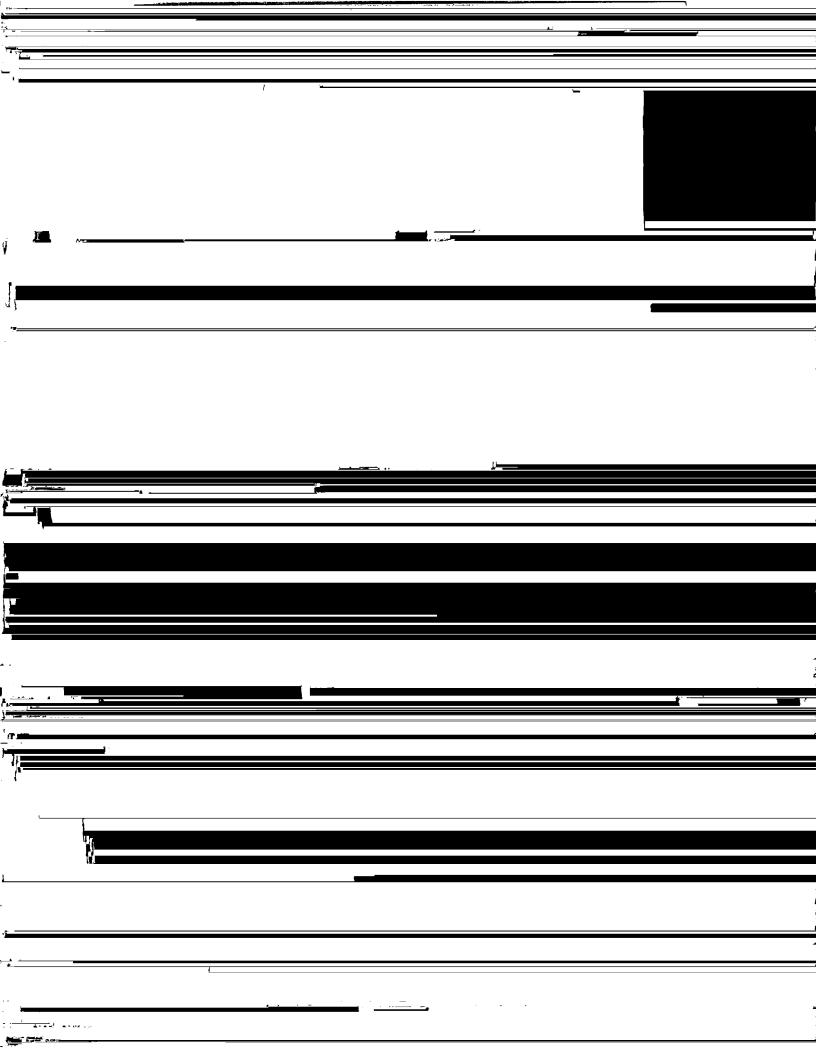
Edu 531—Research (Required)

Edu 5316—Administration and Supervision of Special Education Programs

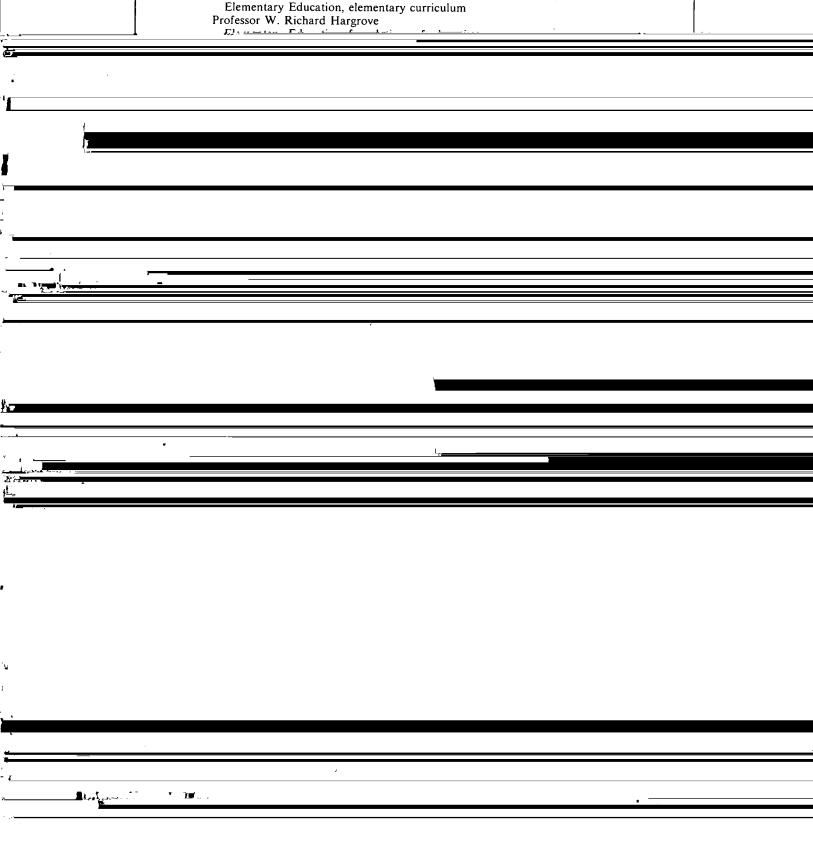
Edu 5224 Interpretation and Applysic of Tosts and Macanana





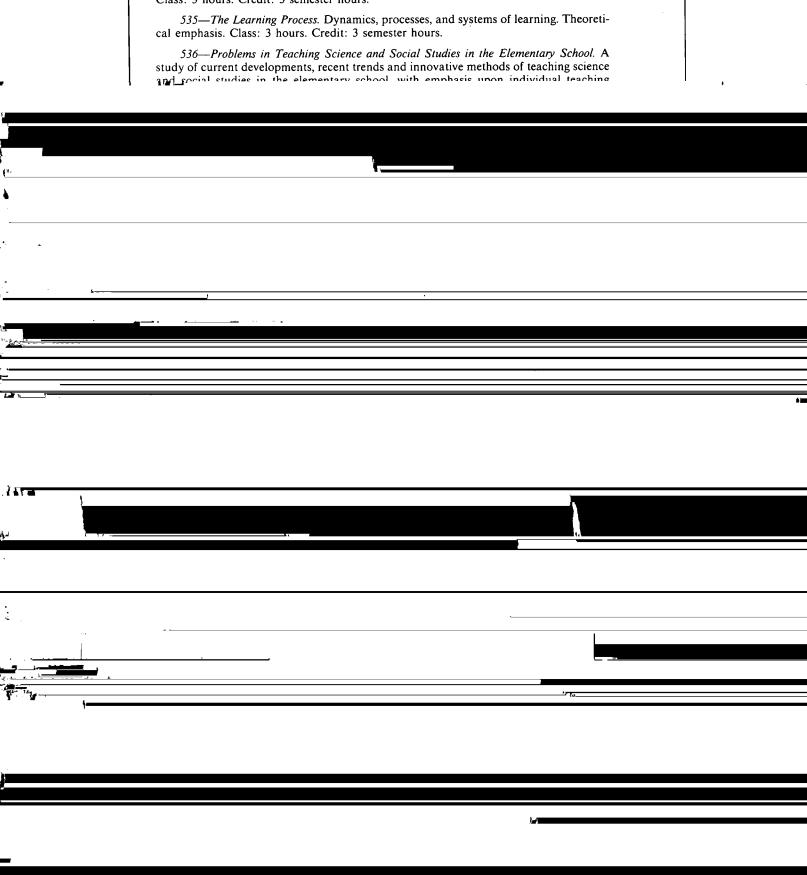


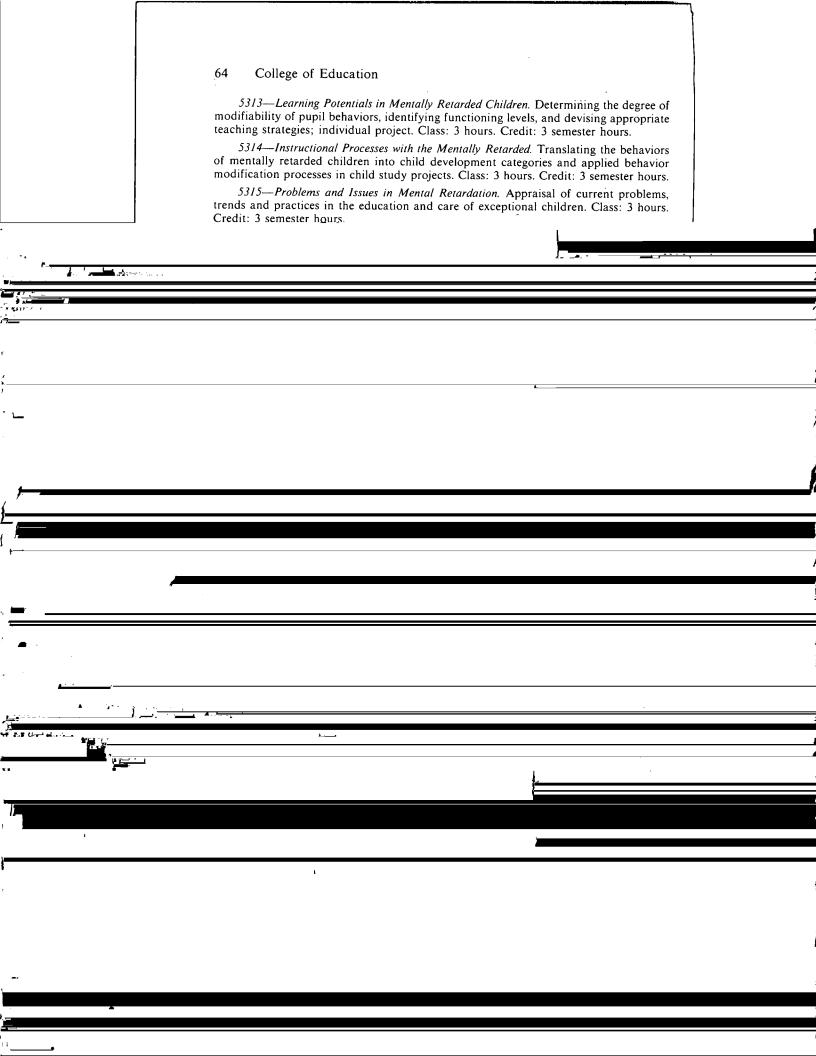
Professor Betty Fay Coody
Elementary Education, elementary curriculum
Associate Professor Walter Dezelle, Jr.
Special Education, mental retardation
Associate Professor Vernon H. Griffin
Elementary Education, elementary curriculum
Professor W. Richard Hargrove

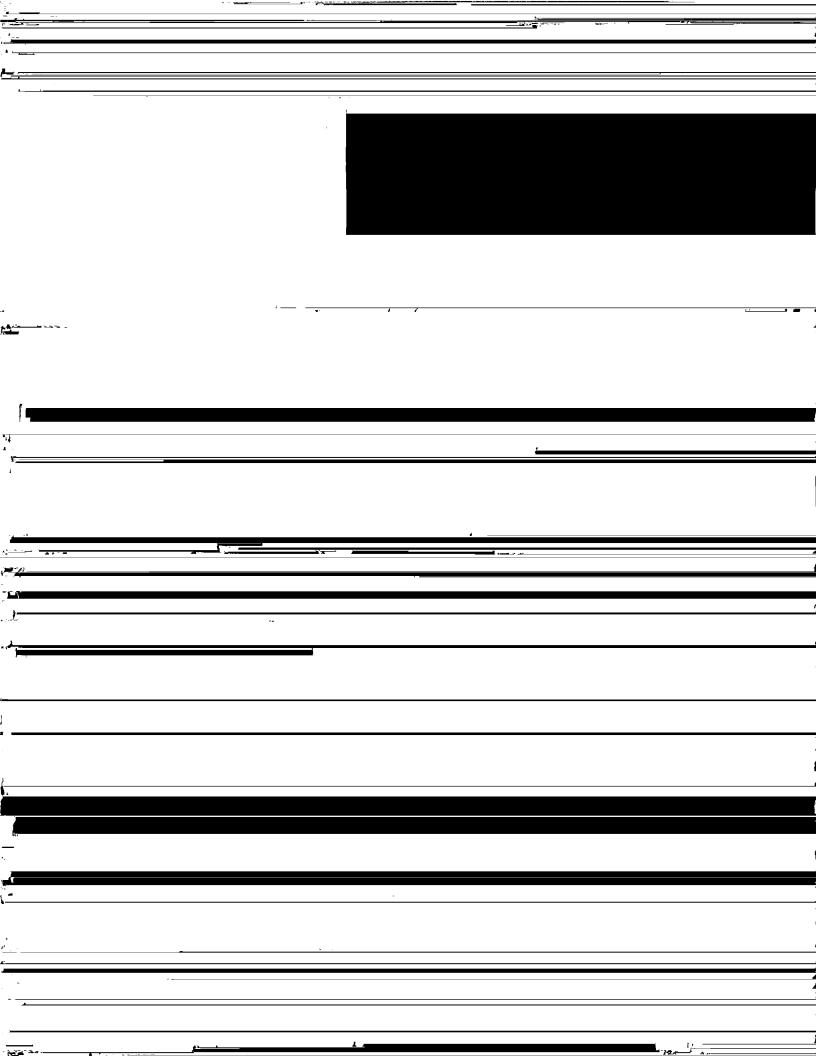


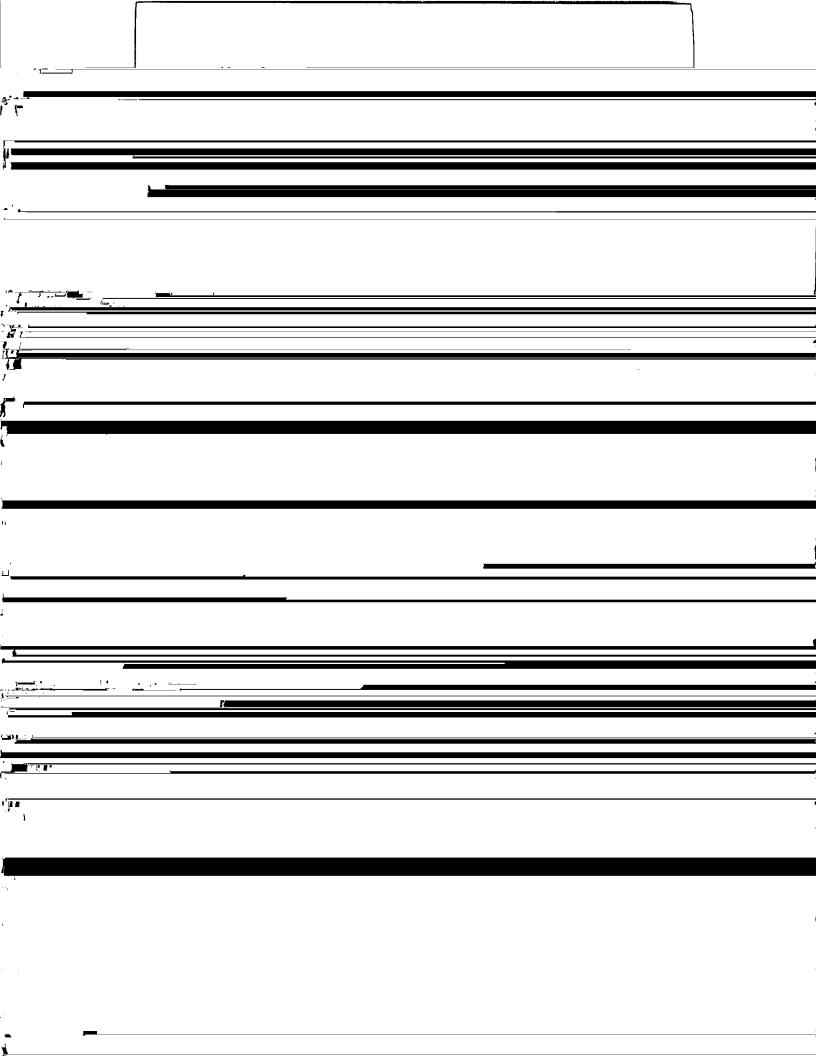
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534—Advanced Study in Human Development. A study of the development and nature of the human personality. Emphasis on recent psychological and biological experiments. Class: 3 hours. Credit: 3 semester hours.







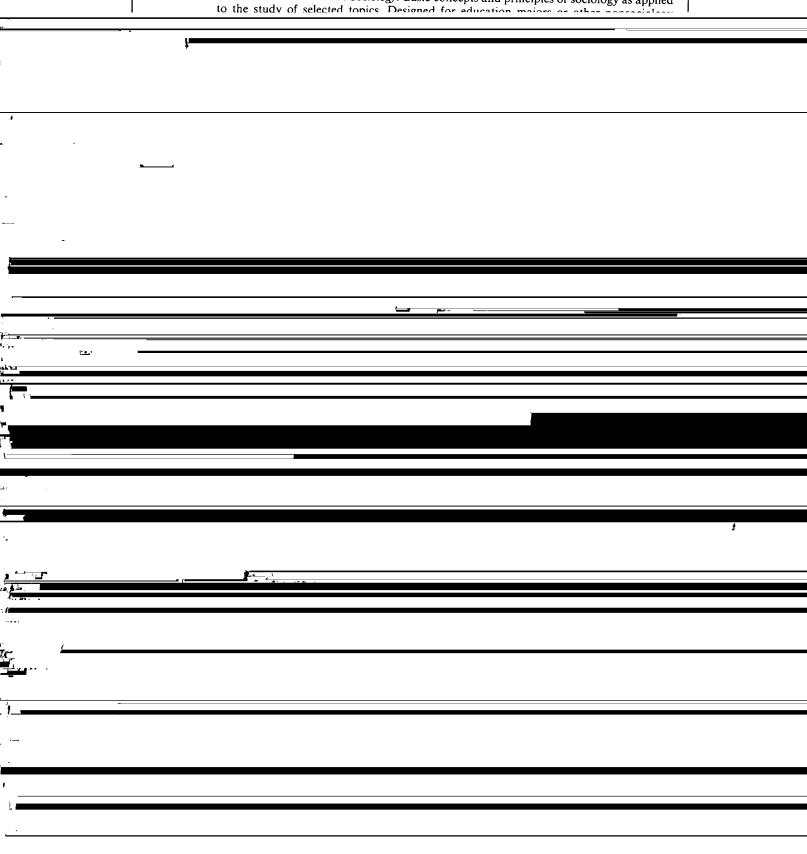


5364—Behavior Modification and Contingency Management of Disabled Learners. The

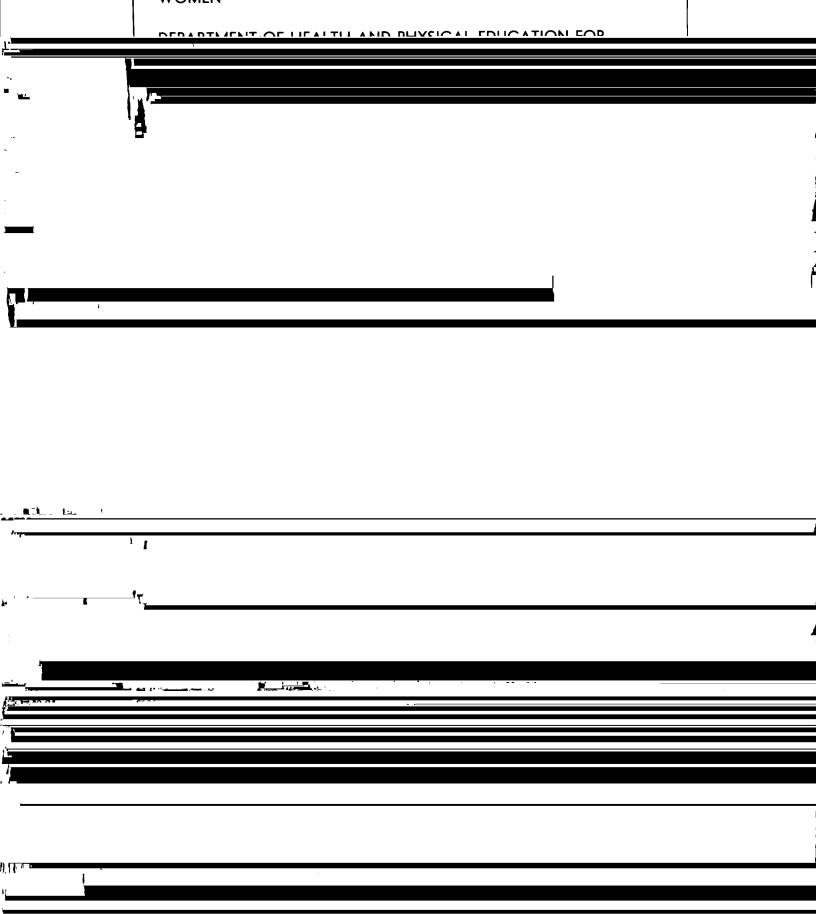


Gov 535-Seminar in the Theory and Practice of Public Administration. An analytical survey of organization, management and problems in public executive organizations: includes study of organizational theory, policy formulation, personnel, finance and administrative leadership. Class: 3 hours. Credit: 3 semester hours.

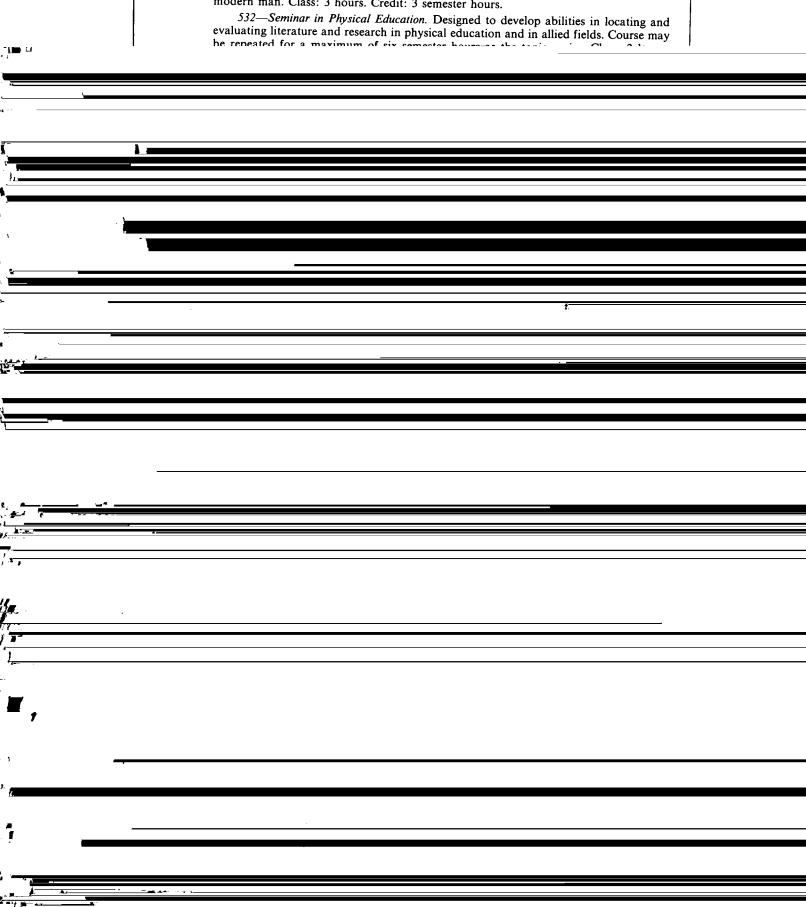
Soc 531—Seminar in Sociology. Basic concepts and principles of sociology as applied



DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION FOR WOMEN



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



College of Engineering

College of Engineering

72 College of Engineering

- 2. The general requirement is 36 semester hours of graduate work. At least 18 semester hours of this work must be engineering courses at the 500 level. The remainder will be selected by the graduate student through consultation and agreement with his graduate committee.
- 3. A graduate student holding an Engineer-in-Training (EIT) certificate or a graduate student who is a Professional Engineer registered in the State of Texas (or registered in another state where requirements do not conflict with the provisions of the Texas Engineering Practice Act and are of a standard not lower than those specified in

l	Cratical 2 Service Act and are of a standard not lower than those specified in
	
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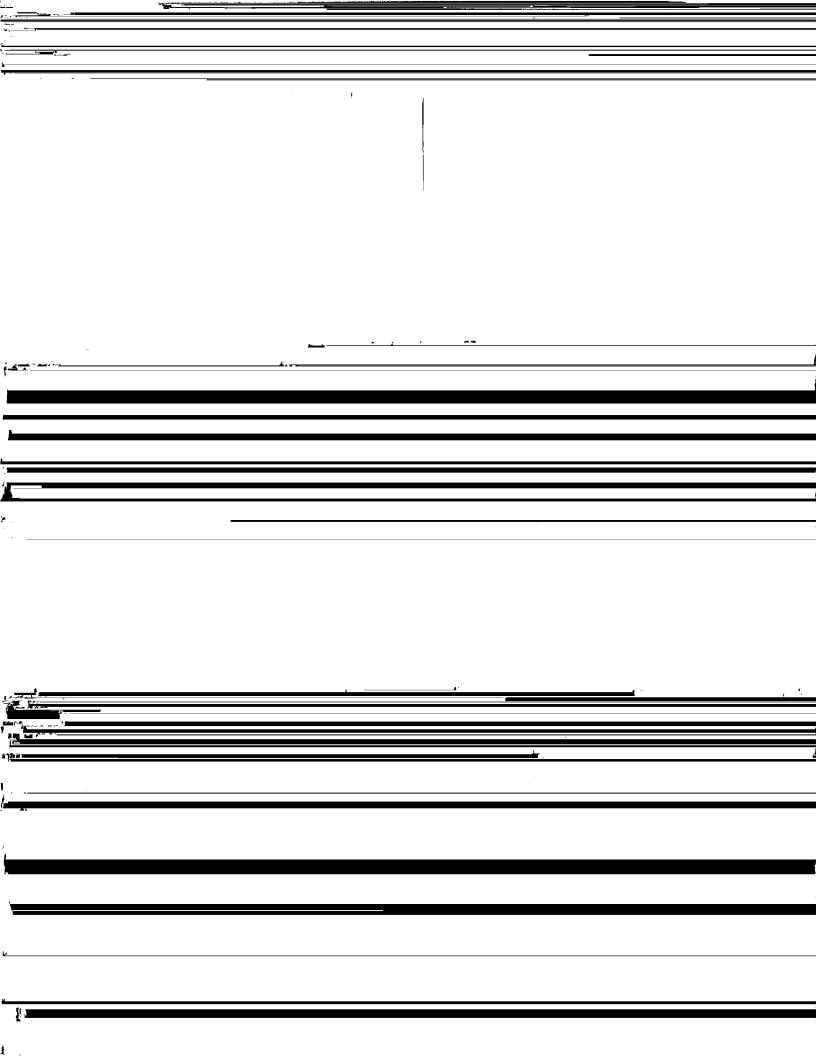
College of Engineering 73 faculty will allow. In addition to his study program the student will be expected to demonstrate a proficiency in at least one computer language. The student is expected to pursue his study program in a continuous manner by earning three semester hours credit in two consecutive long terms. Failure to do so will require an application to the Graduate Engineering Faculty to continue his study program. Candidacy Examination Near the end of the study program the student would make written application to his mitted tacks allowed to take the condidence are minetions. The nurnoses of <u>الله</u>.

74 College of Engineering

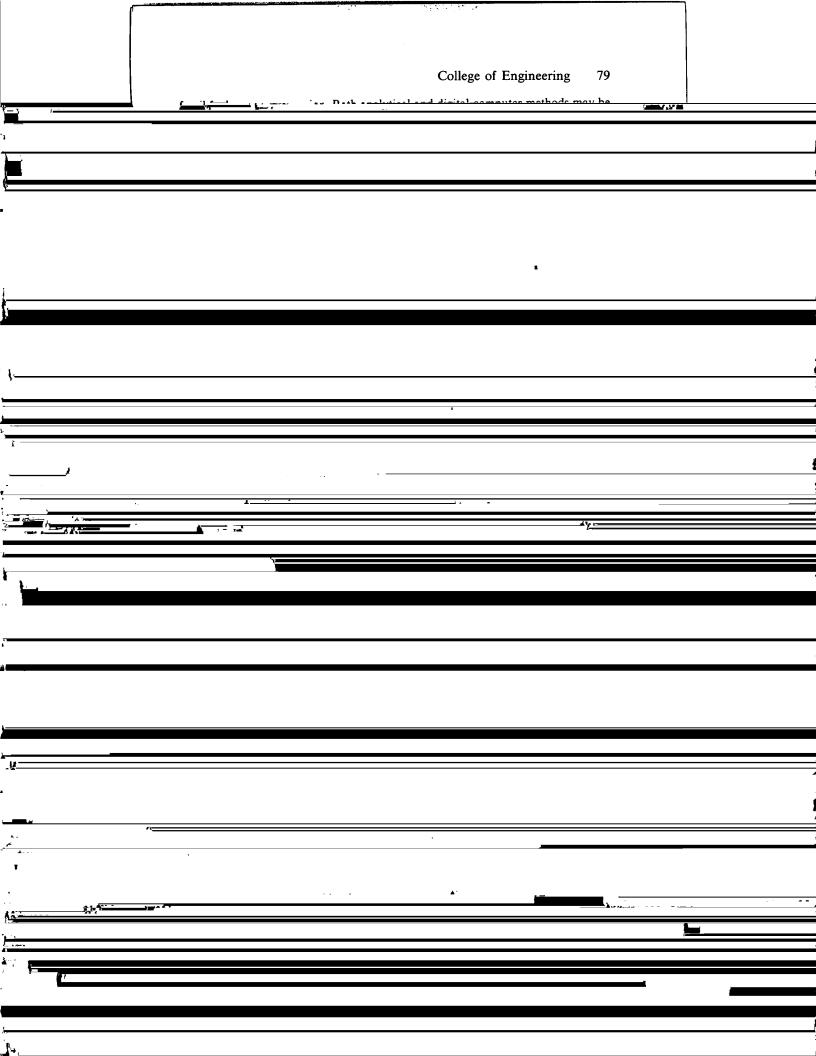
Associate Professor Edwin O. Eisen
Vapor-liquid equilibria,
reaction kinetics, thermodynamics
Professor David G. Gates
Decision-making processes; plant layout, human factors
Associate Professor Jack R. Hopper
Reaction, kinetics, catalysis
Professor Frederic C. Jelen
Corrosion, economic analysis
Professor Robert A. McAllister
Transport properties, fluid mechanics

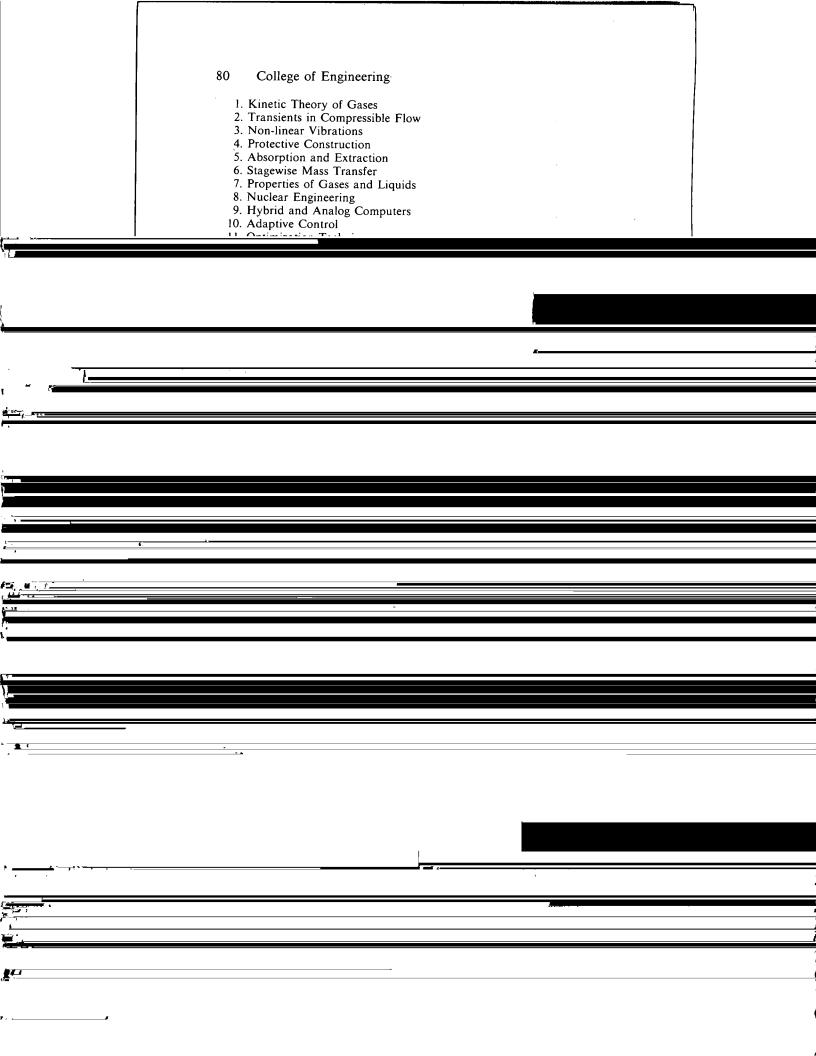
College of Engineering 75 53?_Computer Methods in Engineering Analysis. Computer techniques will be intro-L a

76 College of Engineering 5311—Heat Transfer Analysis. Fundamental principles of heat transfer by conduction, convection and radiation. Emphasis will be given to the analysis of problems com-

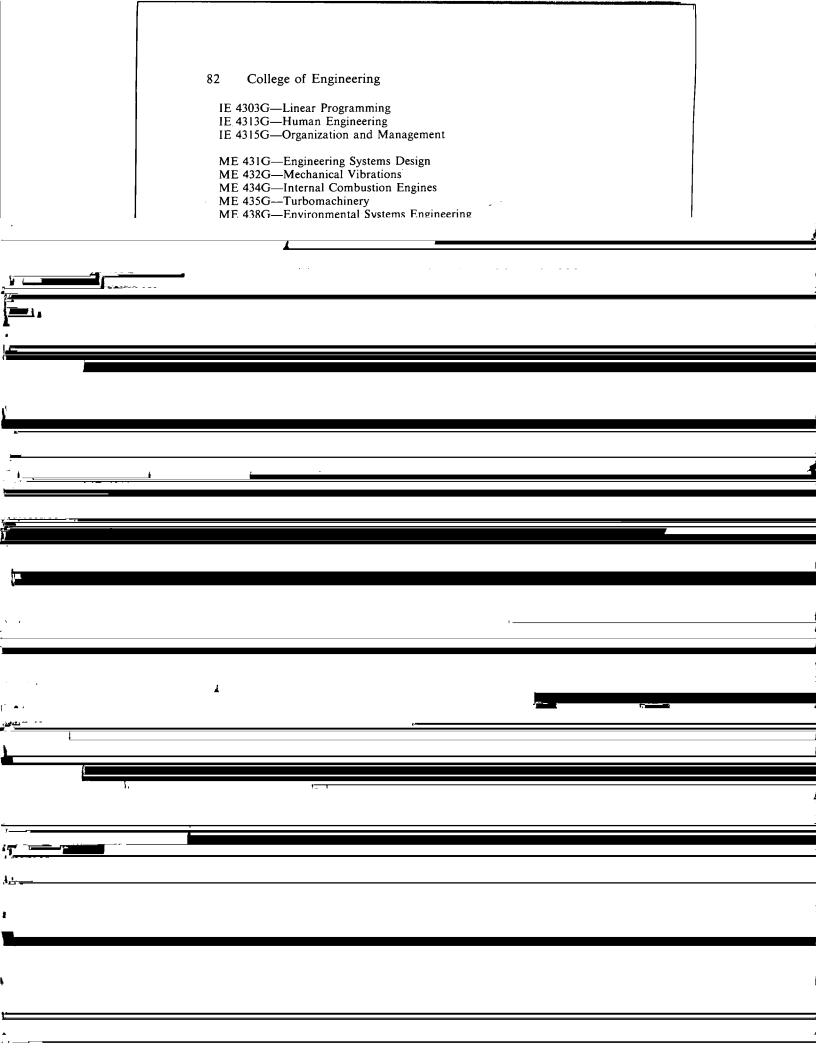


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College of Engineering 81



Department of English

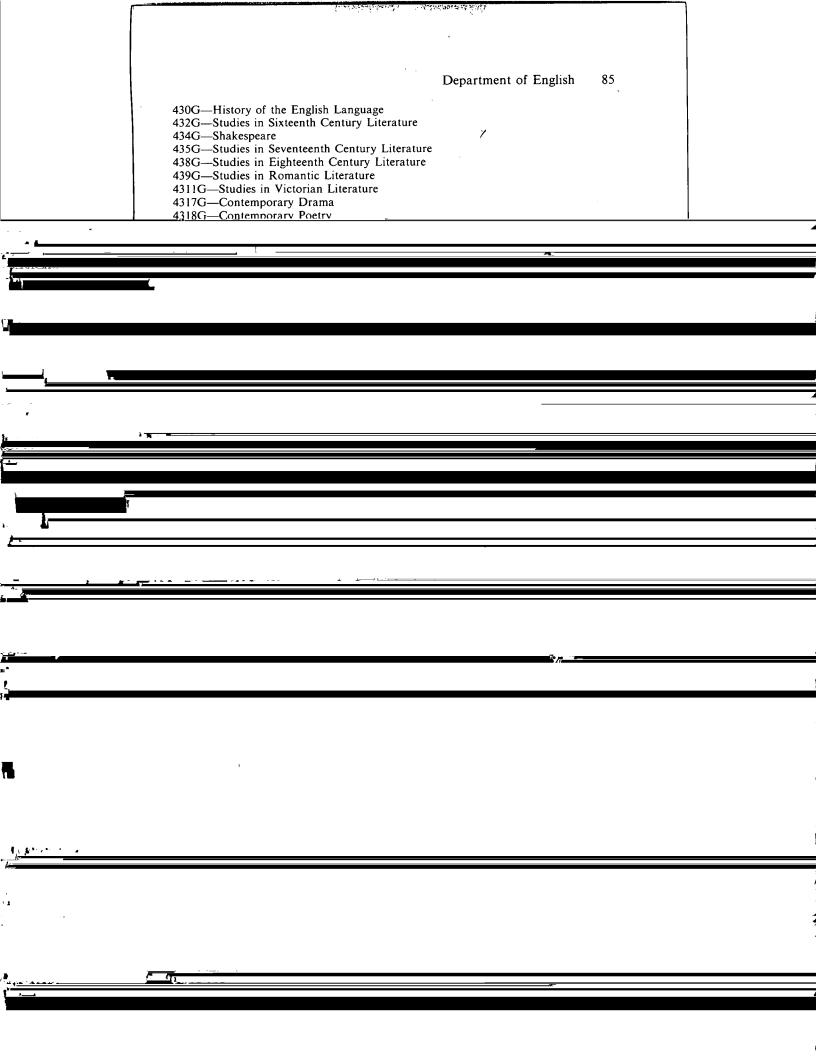
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Department of English

Degree Requirements

The degree of Master of Arts in English requires the completion of 30 semester hours of graduate work: 18 in English, six in thesis, and six in an approved minor. With the approval of the Head of the Department of English, 12 semester hours of course work may be substituted for the thesis. At least 18 semester hours, including the thesis, must be in English courses numbered 500 or above. The minor must be approved by the Head of the Department of English or with his approval six additional hours in English may

84 Department of English Professor Alvice W. Yeats British literature: 1840 to the present Professor David D. Zink Nineteenth century American and British literature Associate Members Assistant Professor Olga D. Harvill British Romantic literature Assistant Professor Arney L. Stirckland Linguistics and English education



Department of Geology

The Department of Geology offers the following graduate courses to be used primarily as support to other advanced degree programs.

GRADUATE FACULTY

Members

Professor H. E. Eveland

Department of Government

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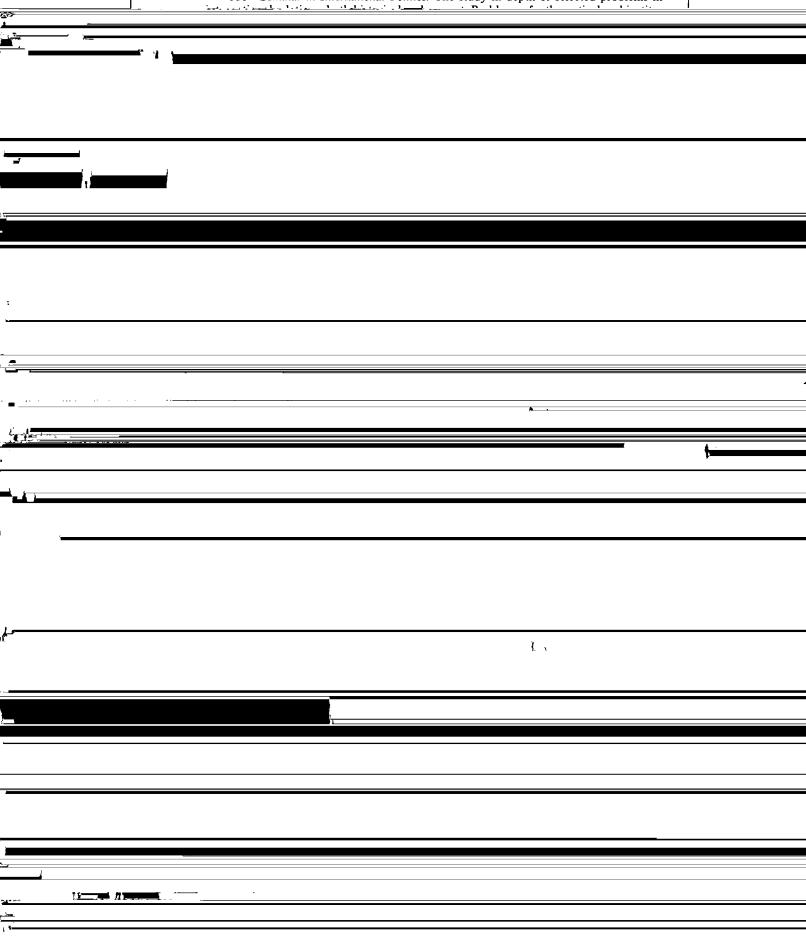
Department of Government

Degree Requirements

The degree of Master of Arts in Government requires the completion of 30 semester hours of graduate work: 18 in Government six in thesis and six in an approved minor

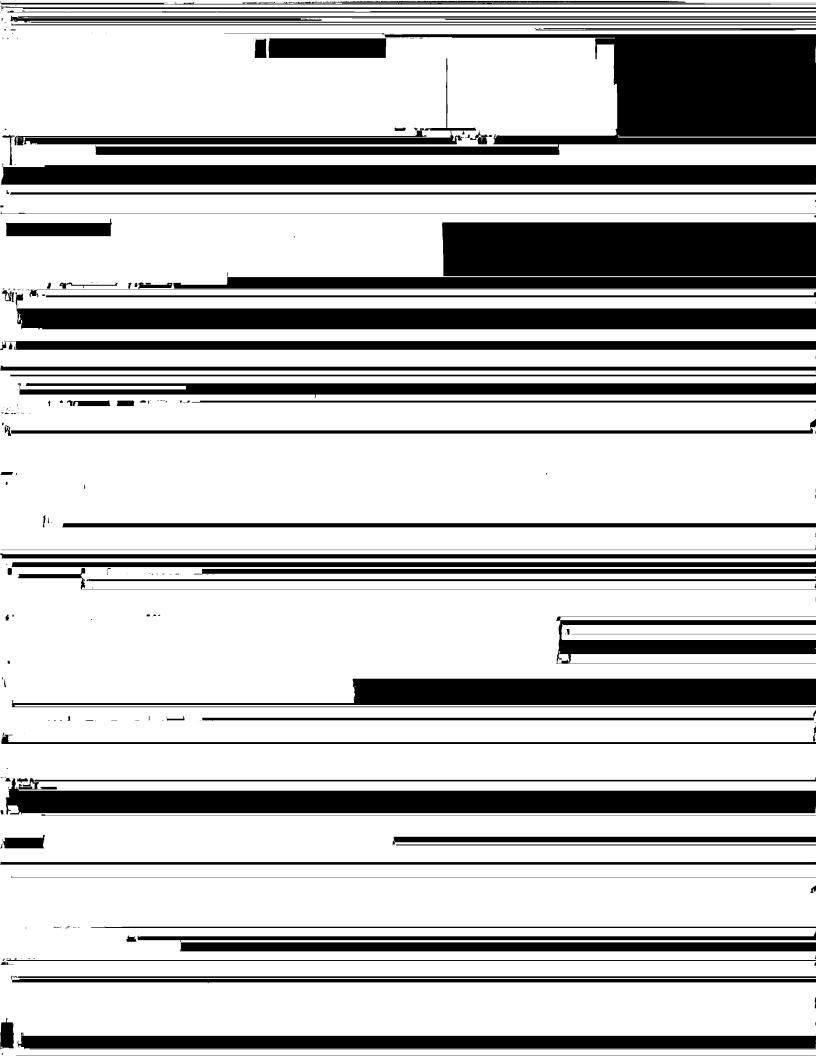
88 Department of Government

536—Seminar in International Politics. The study in depth of selected problems in





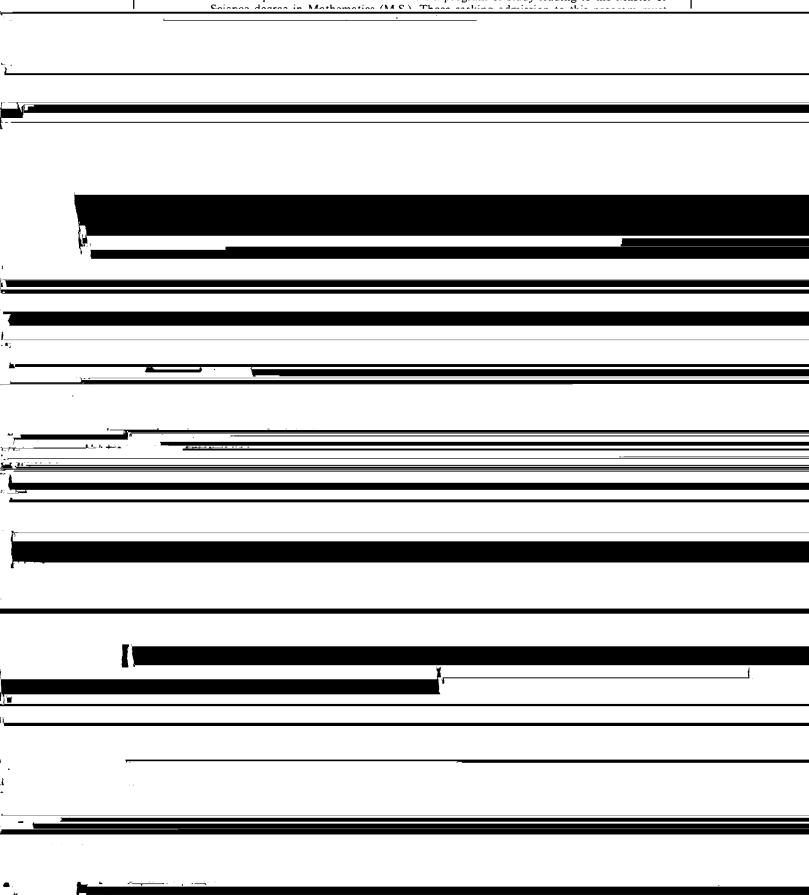
Department of History 90 533—Readines in European History Refore 1815. Course may be repeated for a maxi-



92 Department of Mathematics

Department of Mathematics

The Department of Mathematics offers a program of study leading to the Master of



Department of Mathematics

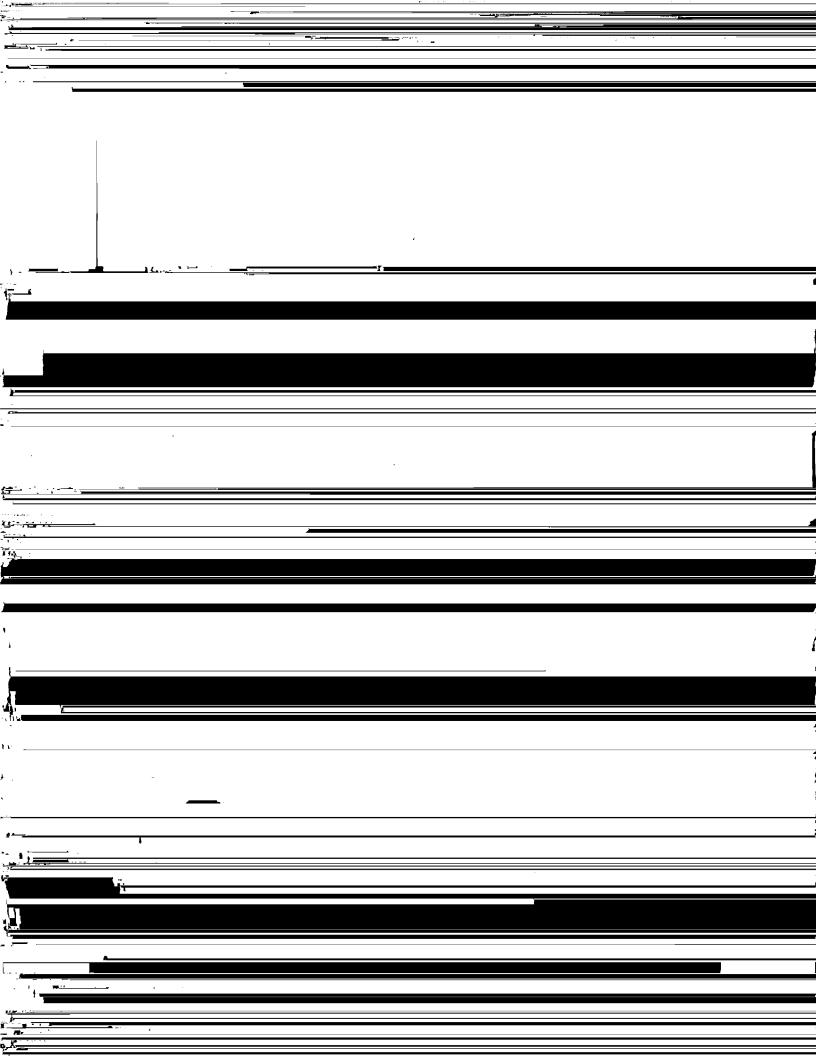
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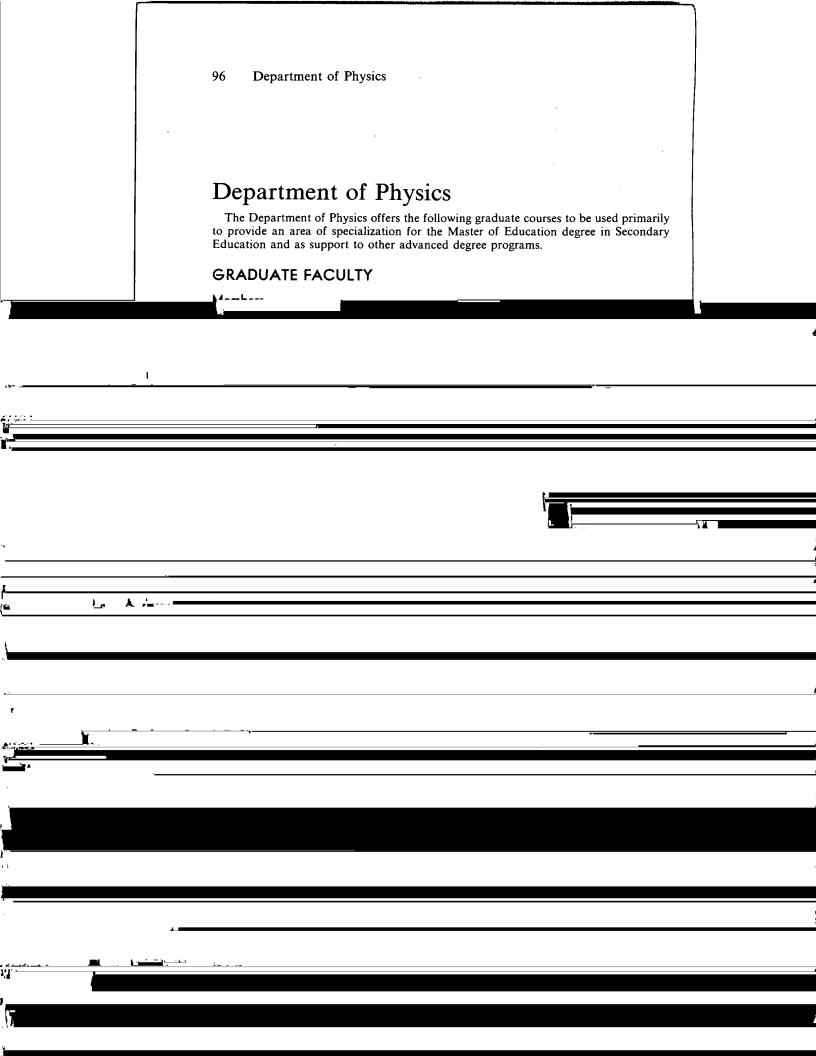
- 532—Modern Algebra. Numbers, sets, rings, fields, polynomials, and the theory of fields. The theory of fields includes the study of subfields, prime fields, simple field extensions, algebraic field extensions, and Galois fields. Class: 3 hours. Credit: 3 semester hours.
- 533—Calculus of Variations. The Euler-Lagrange differential equation, necessary conditions of Legendre, Jacobi, and Weierstrass, sufficient conditions for an extreme, brachistrochrome problem, goedesics, surface of revolutions of minimum area, other problems as time permits. Class: 3 hours. Credit: 3 semester hours.
 - 534—Topology. Sets, compact spaces, topological spaces, embedding and metriza-

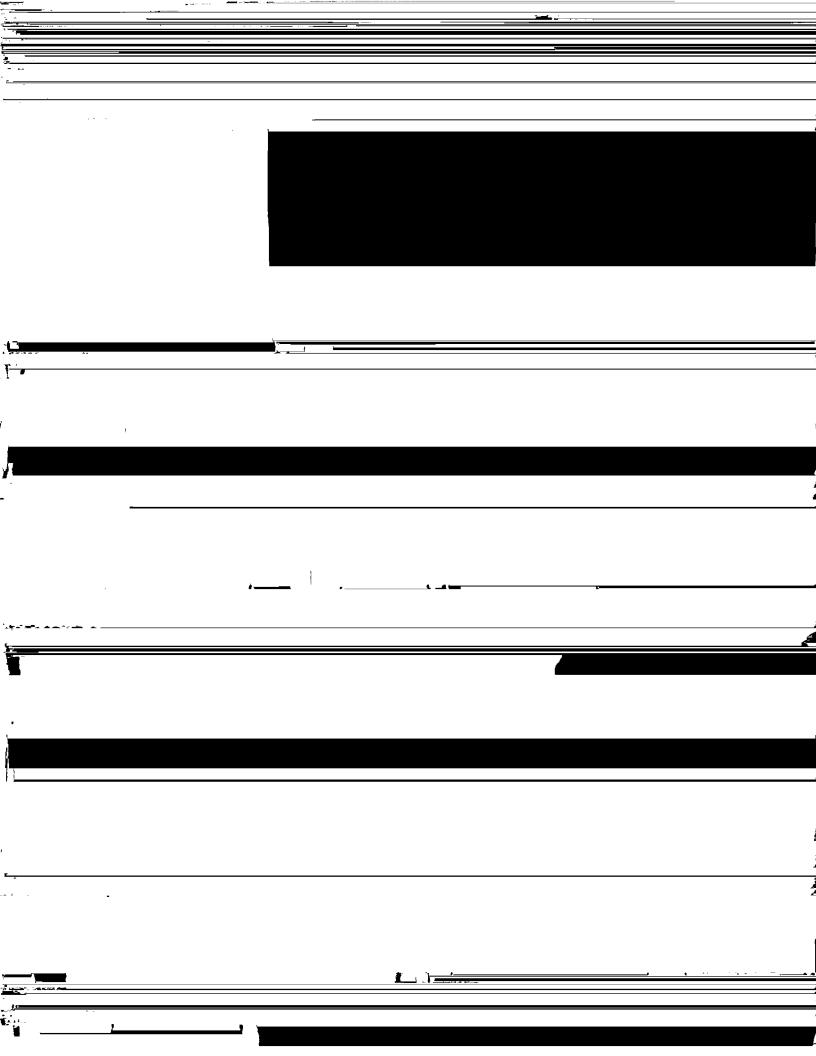
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Below is the approved list of 400G level courses which may be taken with augmented requirements for graduate credit, subject to approval by the graduate advisor. Course descriptions may be found in the Bulletin of Lamar University.

4301G—Advanced Calculus for Engineers







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GRADUATE FACULTY

Members

Professor Robert F. Achilles
Speech Pathology
Professor W. Brock Brentlinger
Speech
Associate Professor DeWitte T. Holland
Public Address
Professor S. Walker James
Theater

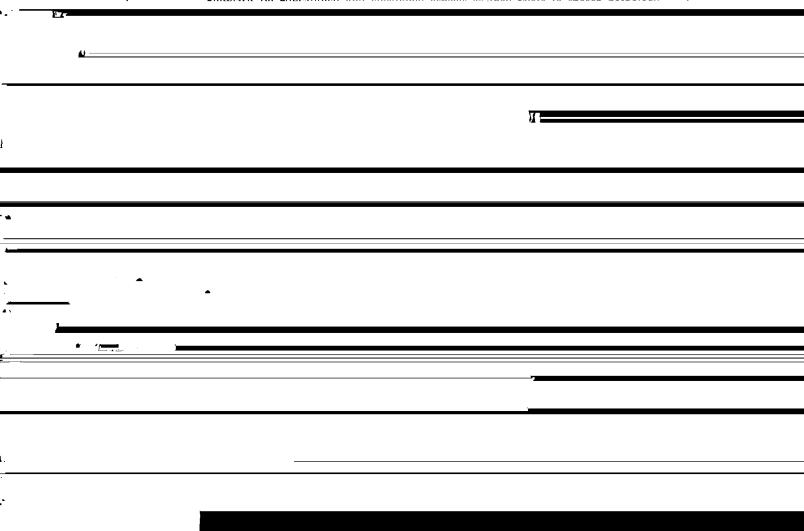
Associate Members

Associate Professor Arnold C. Anderson Rhetoric Assistant Professor David Granitz Speech Audiology Assistant Professor W. Patrick Harrigan, III Theater, Oral Interpretation

The graduate student may select his courses in Speech from the following list:

515, 525, 535—Individual Study. Independent study of special and/or specific problems in disorders of communication. Credit: 1-3 semester hours.

530—Seminar in Speech Pathology. Study of theory and diagnostic procedures with



Department of Speech 539-Seminar in Fine Arts. A study of the areas of art, music and theater. Class: 3 hours. Credit: 3 semester hours. 5310-American And British Public Address. A review of selected famous American and British orators and a comprehensive study of their speeches. Class: 3 hours. Credit: 3 semester hours. 5315—Advanced Argumentation And Debate. The application of the principles of logic and motivation to the argumentative process. A review of the place of forensics in the high

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436G—History of Theater

436G—History of Theater
437G—Directing Secondary School Theater Activities
438G—Directing Secondary School Speech Activities
439G—Rhetoric and Public Address
4311G—Theory and Practice of Scenery and Lighting Design
4312G—Costume Design and Construction
4324G—Advanced Audiology
4335G—Instrumentation

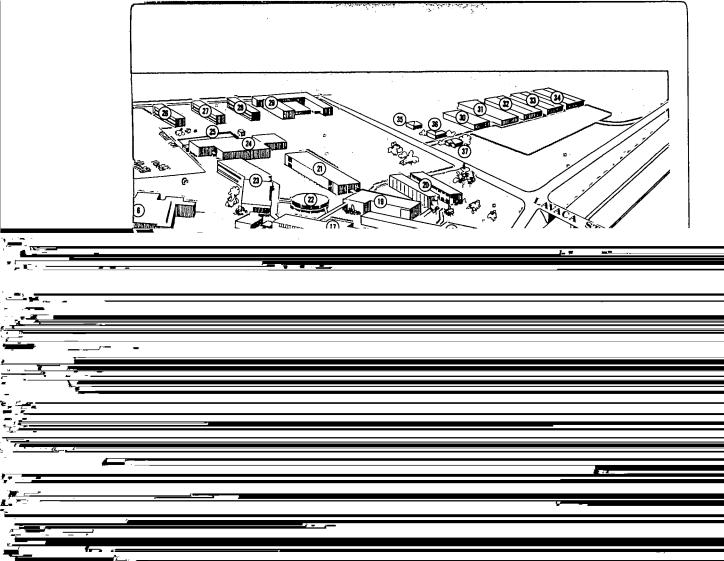
4325G—Instrumentation

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