

BULLETIN OF

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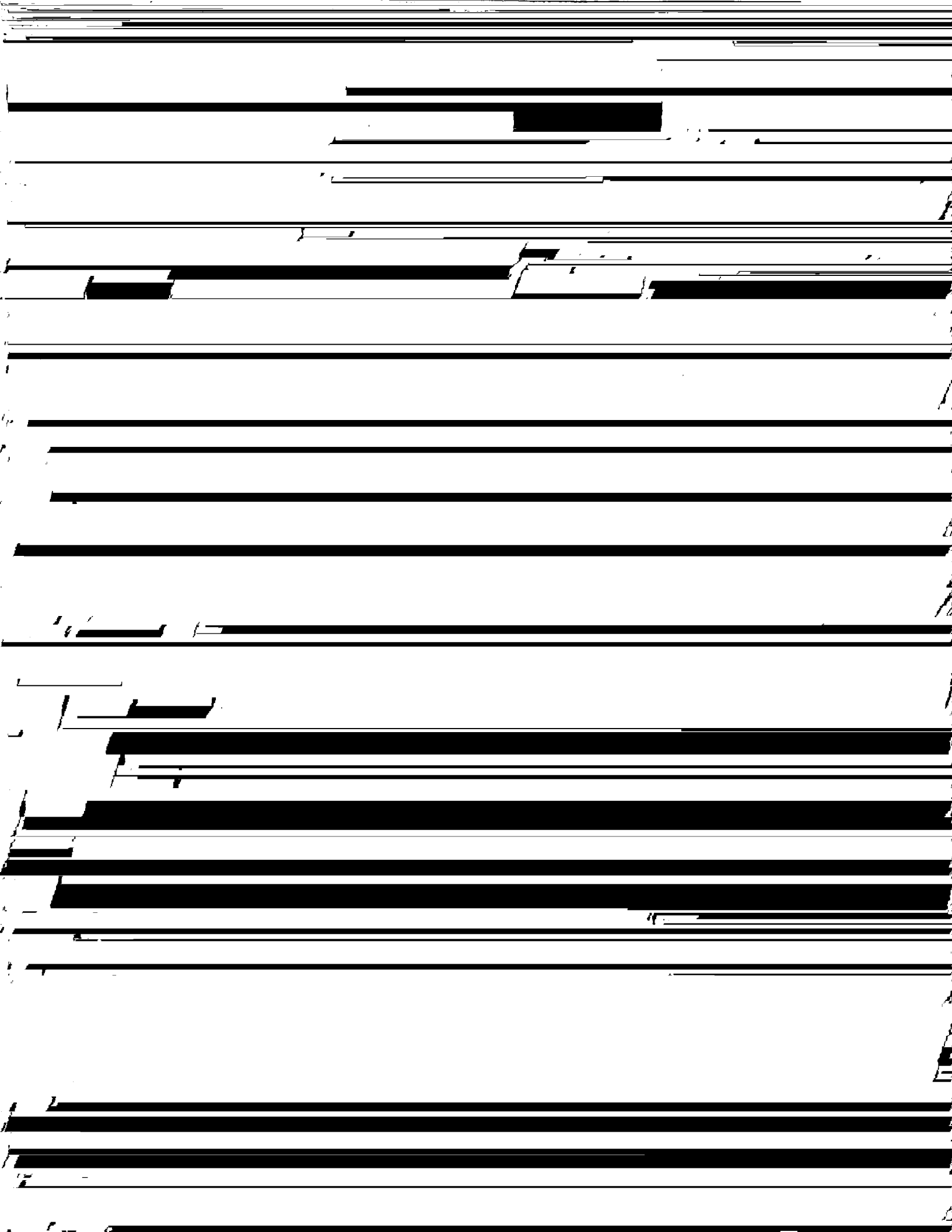
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BULLETIN

of

LAMAR STATE COLLEGE OF TECHNOLOGY

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Vol. XIII

FEBRUARY, 1963

No. 8

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Published monthly except May at 4400 Port Arthur Rd., Beaumont, Texas.

**BOARD OF REGENTS**

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ORGANIZATION OF THE COLLEGE

Schools and Departments

School of Arts and Sciences

CONTENTS

Academic Regulations ..... Page 39-48  
Adv. Standing Exam 45; Dropping Course 42; English Proficiency

DIRECTORY FOR CORRESPONDENCE

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

Academic Program.....Richard W. Setzer, Dean of the College

1963

JANUARY

MAY

SEPTEMBER



LAMAR STATE COLLEGE OF TECHNOLOGY

College Calendar for 1963-64

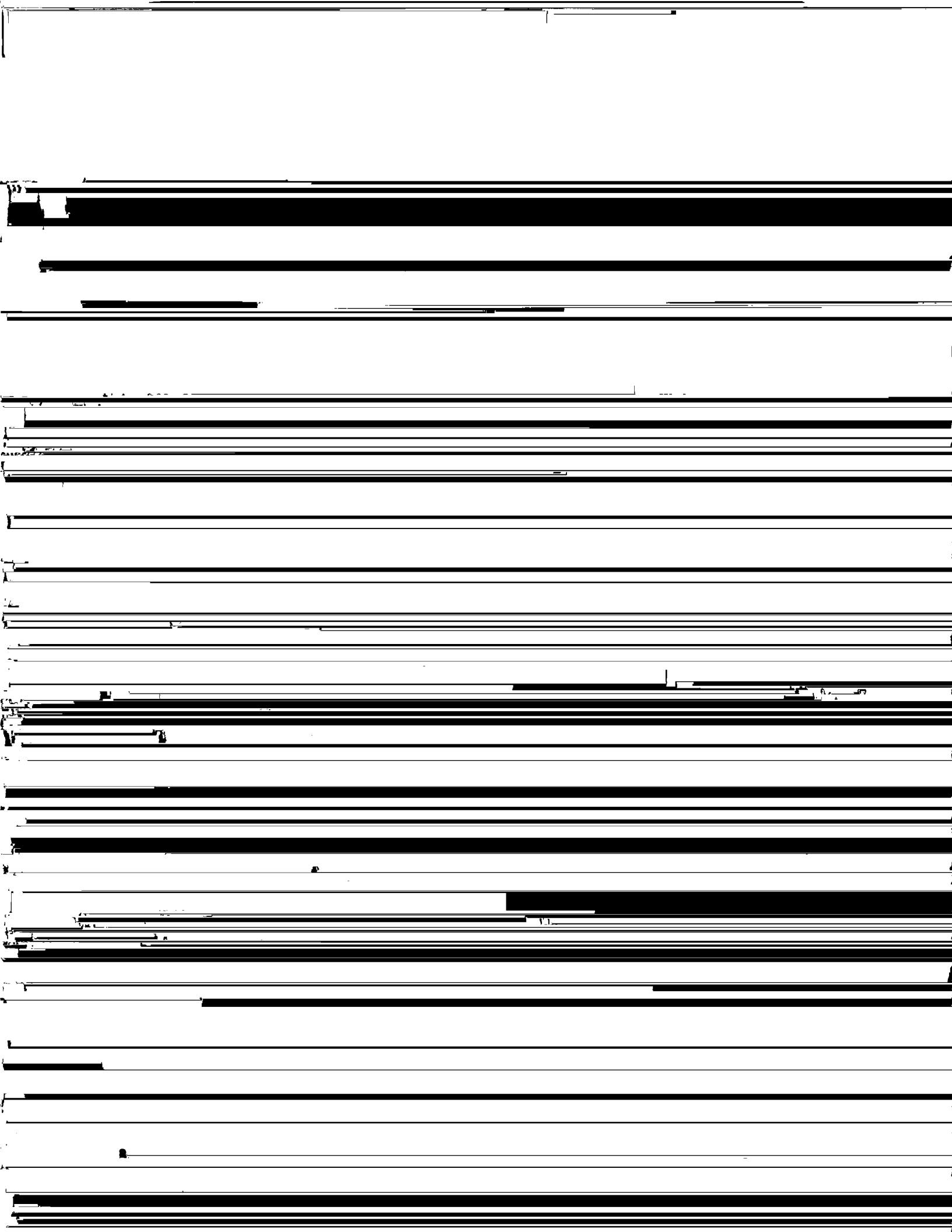
Fall Semester, 1963

Sept. 16 Monday

8 a.m. Orientation for new students.

10 a.m. Meeting of new faculty.

1 p.m. General faculty meeting.



Summer Session, 1964

First Term

June 7 Sunday Limited operations of dormitories.  
8 Monday 7 a.m. Dining Hall opens.  
8 a.m. Registration.  
6 p.m. Registration—evening classes.  
9 Tuesday 8 a.m. Classes begin.

Registration after this date limited to available classes. Late registration (penalty fee charged).

FACULTY

LAMAR STATE COLLEGE OF TECHNOLOGY

DIRECTORY (1962-63)

OFFICERS OF ADMINISTRATION

GENERAL

F. L. McDONALD, A.B., M.A., M.S., Ph.D., President

TED SKINNER B.A. M.A. Ph.D. Dean School of Fine and Applied Arts

ROBERT WEEKLEY, Assistant to Director of College Information  
Administration Building

EUGENE WHEAT, Property Manager  
Administration Building

FACULTY SESSION 1962-63

FRANCIS E. ABERNETHY, Associate Professor of English, 1956, 1961  
B.A. Stephen F. Austin State College

LUTHER A. BEALE, Professor of Civil Engineering—Head, Department  
of Civil Engineering, 1955

B.S., M.S., Georgia Institute of Technology  
Registered Professional Engineer

LAWRENCE D. BELL, Assistant Professor of Mathematics, 1956

B.E., C.E., North Carolina State College  
LL.B., St. John's University  
Registered Professional Engineer

MRS. MARY KATHERINE BELL, Assistant Professor  
of Mathematics, 1962

B.S., Florida State University  
M.A., University of Cincinnati





JAMES CARL COX, JR., Professor of Chemistry, 1955, 1958  
B.S., West Virginia Wesleyan College  
LL.B., The University of Maryland

WILLIAM ALBERT BATES Professor of Chemistry 1946 1962

DELBERT L. GIBSON, Associate Professor of Sociology. 1959. 1961

B. R. HENRY, Associate Professor of Engineering Drawing, 1946, 1956  
B.S., M.S., East Texas State College

JAMES DENTON HICCINS Athletic Director Professor of Physical and



EUGENE P. MARTINEZ, Assistant Professor of Mechanical Engineering.

L. WESLEY NORTON, Associate Professor of History, 1959, 1962  
B.A., Olivet College  
M.A., Ph.D., University of Illinois

MRS. RUTH H. OLCOTT, Professor of Education—Dean, School of  
Education, 1946, 1958



CARL J. RIGNEY, Professor of Physics—Head, Department of Physics,  
1957

WILLIAM BOYCE SMITH, Instructor of Mathematics, 1962

B.S., Lamar State College of Technology  
M.S., A & M College of Texas

PAUL WAYNE SNYDER, Instructor of Sociology, 1962

B.S., M.S., Lamar State College of Technology

PETER TERWEY, JR., Professor of Mathematics, 1946, 1961

B.A., Texas Western College  
M.A., The University of Texas  
Ph.D., A & M College of Texas

FRANK A. THOMAS, JR., Professor of Mechanical Engineering—Dean,  
School of Engineering, 1958, 1961

B.S., Purdue University  
M.S., Ph.D., Georgia Institute of Technology



MRS. MARILYN D. GEORGAS, Teaching Fellow of English, 1962

MRS. ESTHER HENSA RI INC. Assistant Professor of Education 1920

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Schools

Arts and Sciences  
Business

Engineering  
Fine and Applied Arts

Library hours are 7:45 a.m. to 10:00 p.m. Monday through Thursday, 7:45 a.m. to 5:00 p.m. Friday, 9:00 a.m. to 4:00 p.m. Saturday, and 2:00 p.m. to 5:00 p.m. Sunday. Closed holidays.

#### Health Center

The College maintains a Health Center for the use of students during the long term or summer session.

Two types of service are available: (1) out-patient service for those who have minor ailments but who do not require constant supervision, and (2) infirmary service for those who are in need of the continued attention of the College physician or a registered nurse.

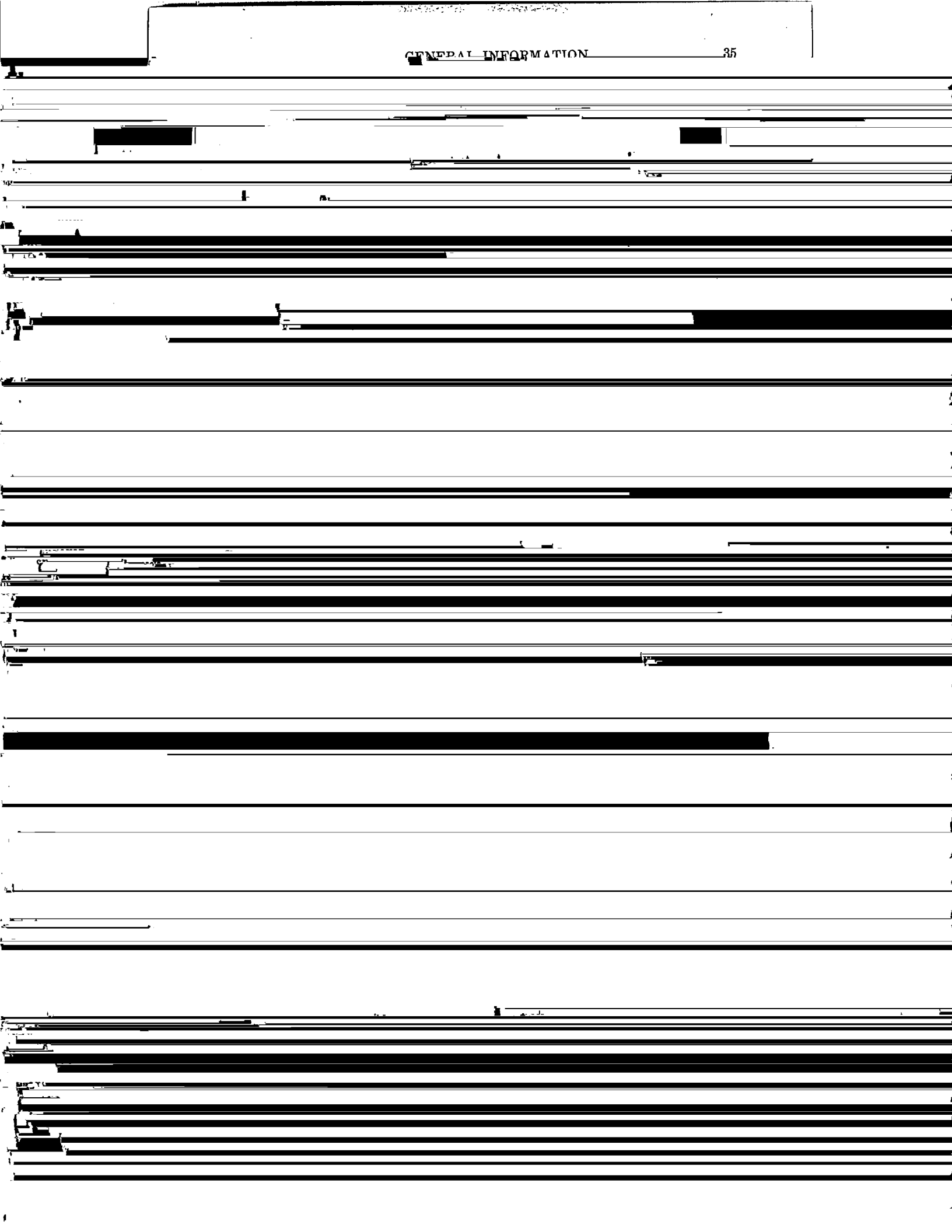
*If it is not possible for you to attend the above mentioned*

**Dining Hall**

The College also owns and operates a dining hall located on the campus (see map, inside front cover).

Two snack bars are located in the Union Gymnasium Building where





these recommendations credit for college work is granted on the basis of measured educational attainment and achievement.

Veterans who are interested in this information should contact the



A number of service and professional organizations make loans available to Lamar students. In addition, many students finance their education through commercial loan organizations. Information on these outside loan sources, as well as funds administered by the College and described below, may be obtained from the Dept. of Student Affairs.



[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

for one semester. For each classroom hour, two hours of study are expected. Three hours of laboratory work are counted equivalent to one classroom hour. For laboratory work which requires reports to be written outside of class, two clock hours are usually counted as one semester hour.

#### Course

The unit of measure for instructional purposes is the course. Most courses meet three hours each week and have a credit value of 3 semester hours for one semester or 6 semester hours for two semesters.







Three copies of the withdrawal form signed by the academic dean, the Librarian, and the Dean of Women or Dean of Men are presented to the Registrar by the student.

On application before the end of the semester or summer session the  
counselor will return such a







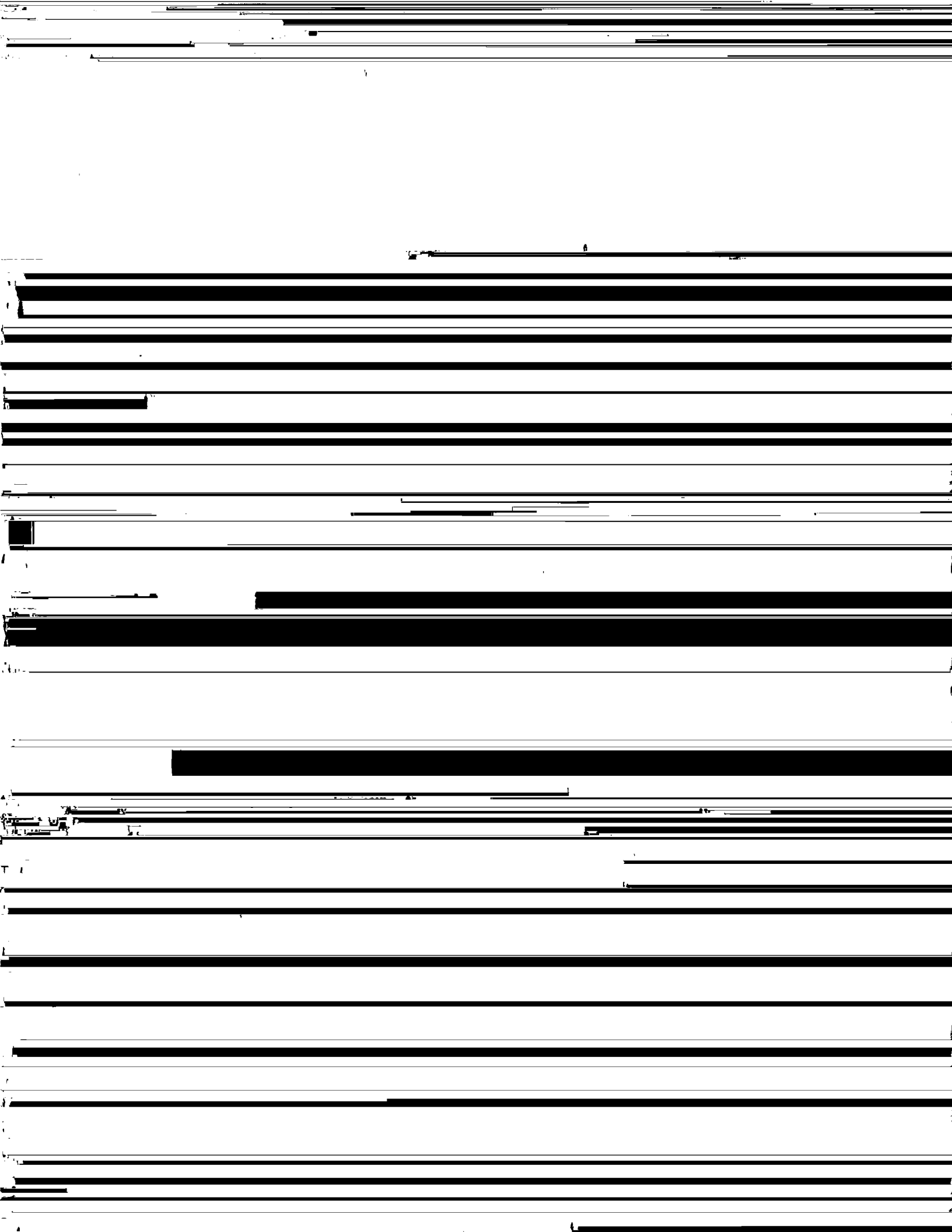
**Bachelor of Business Administration degree**

1. Meet the basic requirements of all degree programs.
2. Meet the specific requirements of the selected program of study as listed in the department concerned.
3. Complete 128 semester hours exclusive of required physical education, band, orchestra, chorus, and orientation.

**Master Degree—General**

1. Meet the requirements for admission to the Graduate School.

Booklet of Standards for the ...



**Removal of Scholastic Probation or Suspension**

A student may be removed from scholastic probation by meeting the minimum academic requirements listed or by reducing his grade-point deficiency below the minimum required. Students on suspension must remain out of college the required length of time or attend a summer session and remove the condition of suspension.

**Transfer Students**

The listed standards also apply to transfer students except that such

at the end of which he graduates, or that of any intervening catalog. The catalog selected is subject to the approval of the department head

New Courses

In order to meet changing educational requirements, the College reserves the right to add any needed courses at any time without regard to the

office or to represent the College in any extra-curricular activity provided such student has a grade-point average of at least 1.0 for both the whole of his college work completed at Lamar and that of the preceding semester.

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.

#### Eligibility for Intercollegiate Activities

A high school graduate who has been admitted as a regular student and

governing this offense, as set forth in Chapter 4-A of Title 15 of Vernon's Statutes in the State of Texas.

**Parking Regulations**

At registration time each student who pays the necessary fee is issued a car sticker which permits parking on the campus. This sticker is numbered and is to be placed in a specific place on the back window of the car.



STUDENT ACTIVITIES

**Student Government**

All full time students are automatically members of the Student Association of Lamar State College of Technology. Officers of the association and representatives of the various schools and organizations are elected annually and make up the Association's executive body known as the Student Government. The Association affords the student an opportunity

**Professional**

Acapella Choir  
Accounting Association

**Fraternities**

Alpha Tau Omega  
Kappa Alpha Order  
Pi Kappa Alpha  
Sigma Chi  
Sigma Nu  
Sigma Phi Epsilon

**Mutual Interest**

Arab Student Organization  
Chi Gamma Iota  
Choir  
International Club  
Jewish Student Association of Lamar Tech  
Lamar Tech Amateur Radio Club  
Lamar Tech Shutterbugs  
Women's Recreational Association

**Honor Societies**

Alpha Pi Epsilon—secretarial science  
Alpha Pi Mu—industrial engineers  
Alpha Psi Omega—fraternity for Curtin Club  
Blue Key—senior and junior men's honor and service fraternity  
~~Gamma Phi Beta—senior women's honor society~~

ADMISSIONS

Graduate School requirements are listed in the Graduate Bulletin.

Qualifications for vocational training are outlined in the Loman

## Units required for admission to the School of Engineering:

English .....	4
Mathematics	
Algebra .....	2
Plane geometry .....	1
Trigonometry .....	$\frac{1}{2}$
Natural Sciences	
Chemistry .....	1
Biological sciences or physics .....	1

As soon as all high school work is completed leave the high school

## 2. Achievement Tests (Optional)

Students who have participated in accelerated programs in high school are encouraged to take the College Entrance Examination Board's Achievement Tests in the corresponding subject matter areas. The student may enter advanced courses provided the test results indicate he is qualified to do so. Minimum scores will be set

Acceptance Notices

Letters of acceptance are normally issued shortly after the required



2. Submit the Health Data Form properly executed by a physician. This requirement applies to students entering day classes for the first time.

admission are required to take the Scholastic Aptitude Test of the College Entrance Examination Board. If the applicant's native language is one other than English, the Department of State's English language examination must also be taken. The English Usage Test is given by American Consuls and The Scholastic Aptitude Test is given several times a year at test centers throughout the world. Details and special application forms may be secured by writing to the Dean of Admissions.

#### Readmission of Former Students

A former student who has attended another college is required to submit a complete record of all work done subsequent to the last date of attendance at Lamar State College and to meet the quality requirements outlined for other transfer students.

FEEES AND EXPENSES

Payment of Fees

Lamar State College of Technology reserves the right to change fees in keeping with acts of th Texas Legislature.

A student is not registered until all 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 State College of Technology and will be accepted subject to final payment.

Fees Summary

Resident Students (Texas)

Semester		Bldg. Use	Total
Hours			+

**Student Responsibility for Residence Classification**

The responsibility of registering under the proper residence classifica-

**Special Fees**

Fees for courses for which special plans must be prepared and for which specialists must be secured as instructors will be set for each such course by the college administration subject to the approval of the president

Full-time Student (12 or more semester hours)

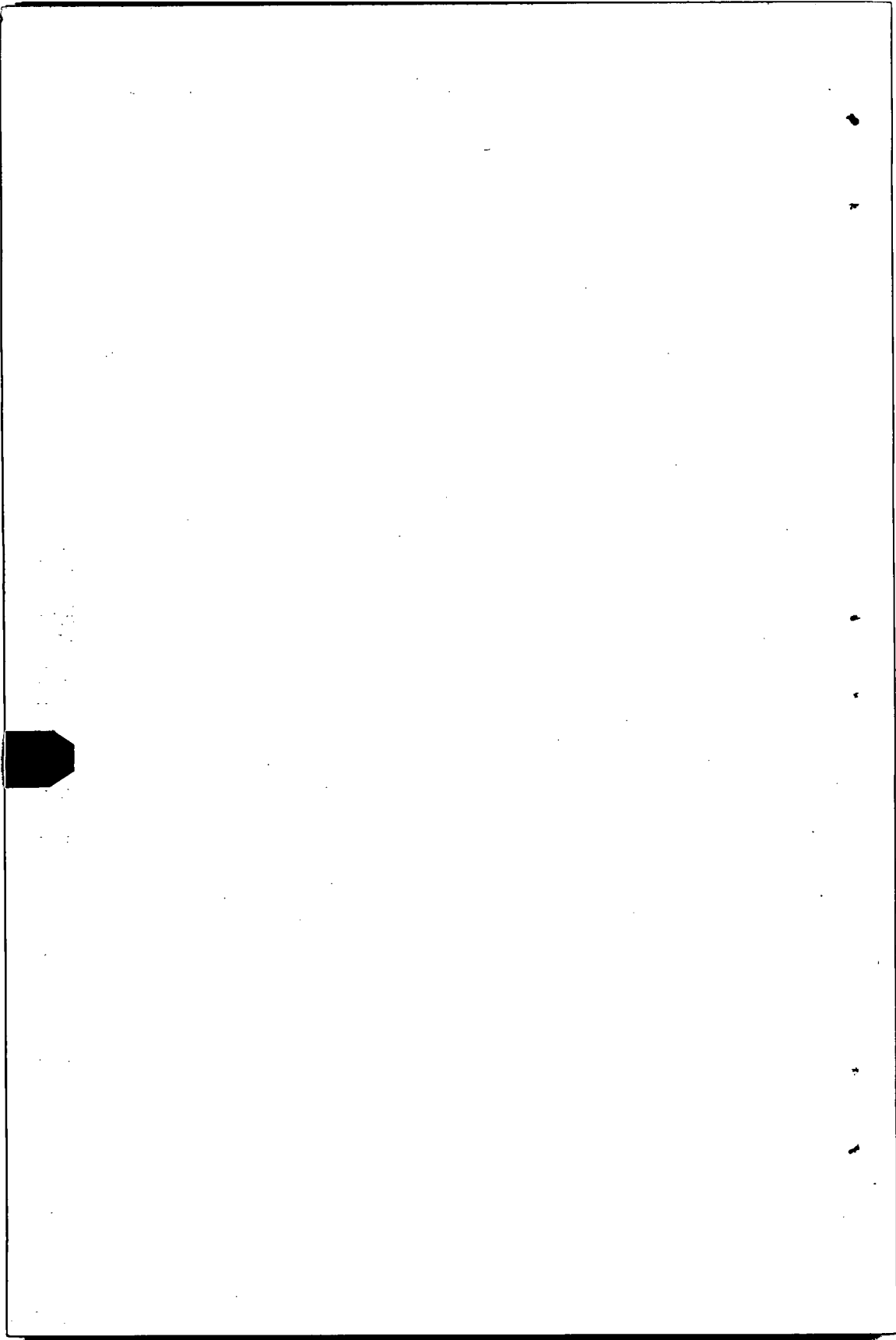


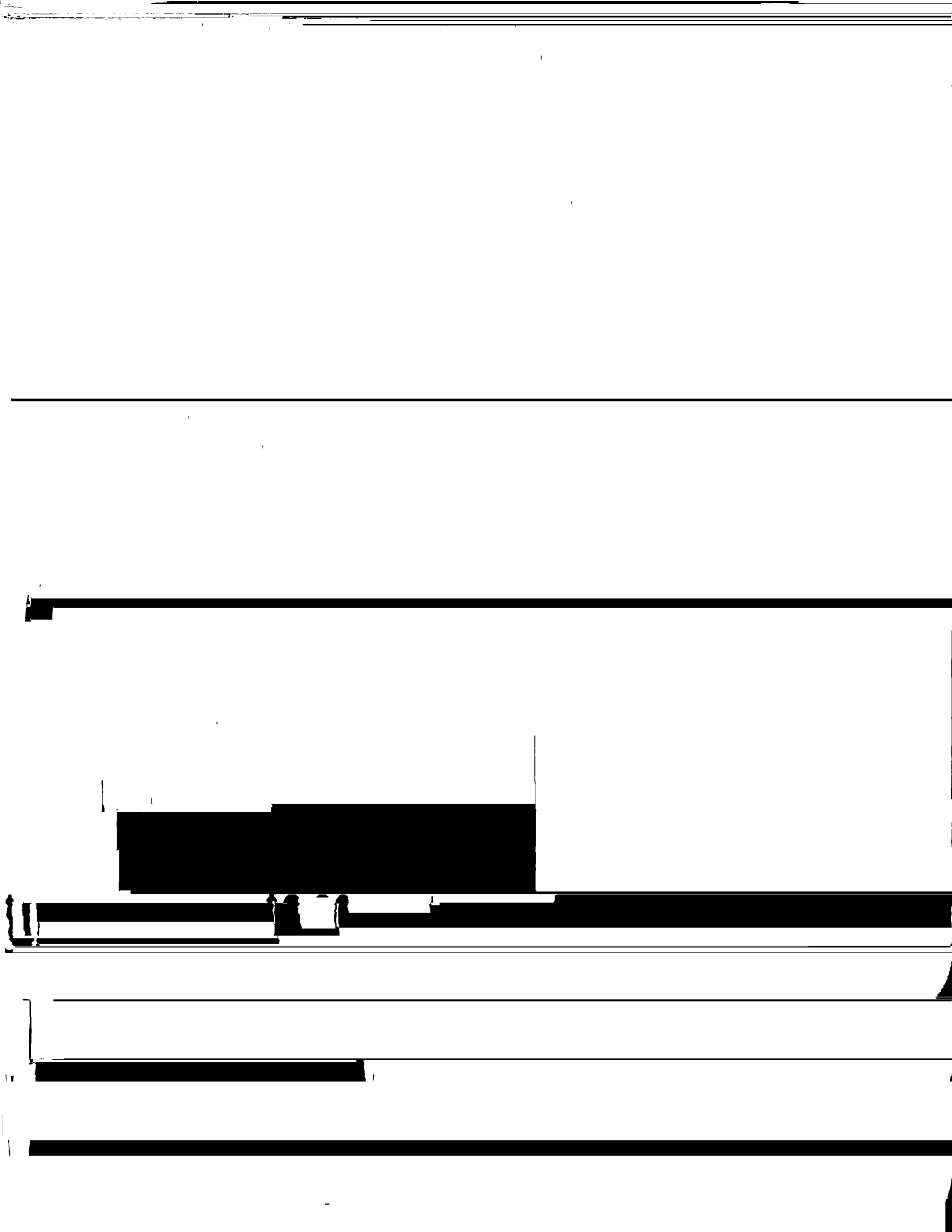
FEEES AND EXPENSES

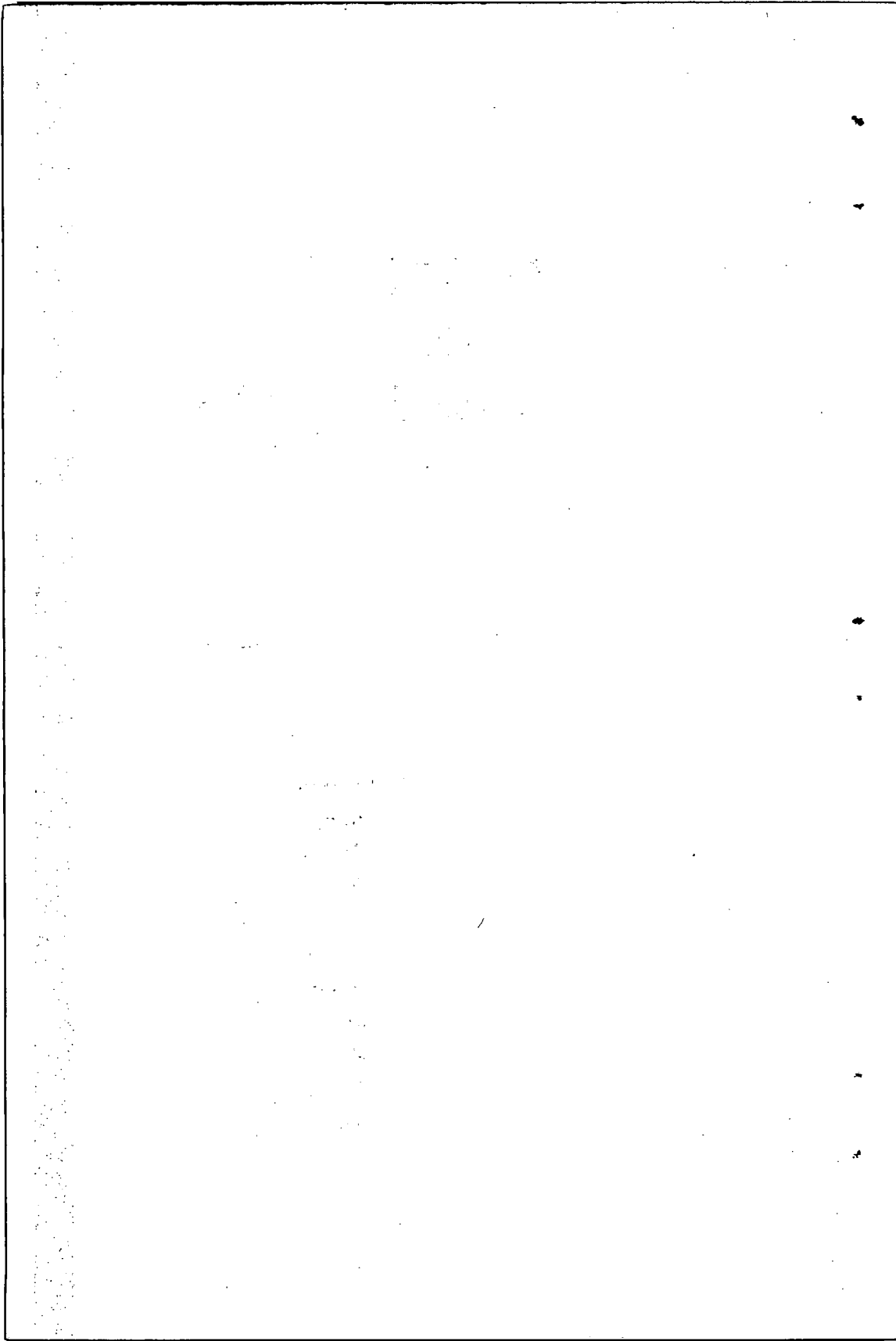
February .....	\$76
March .....	\$76



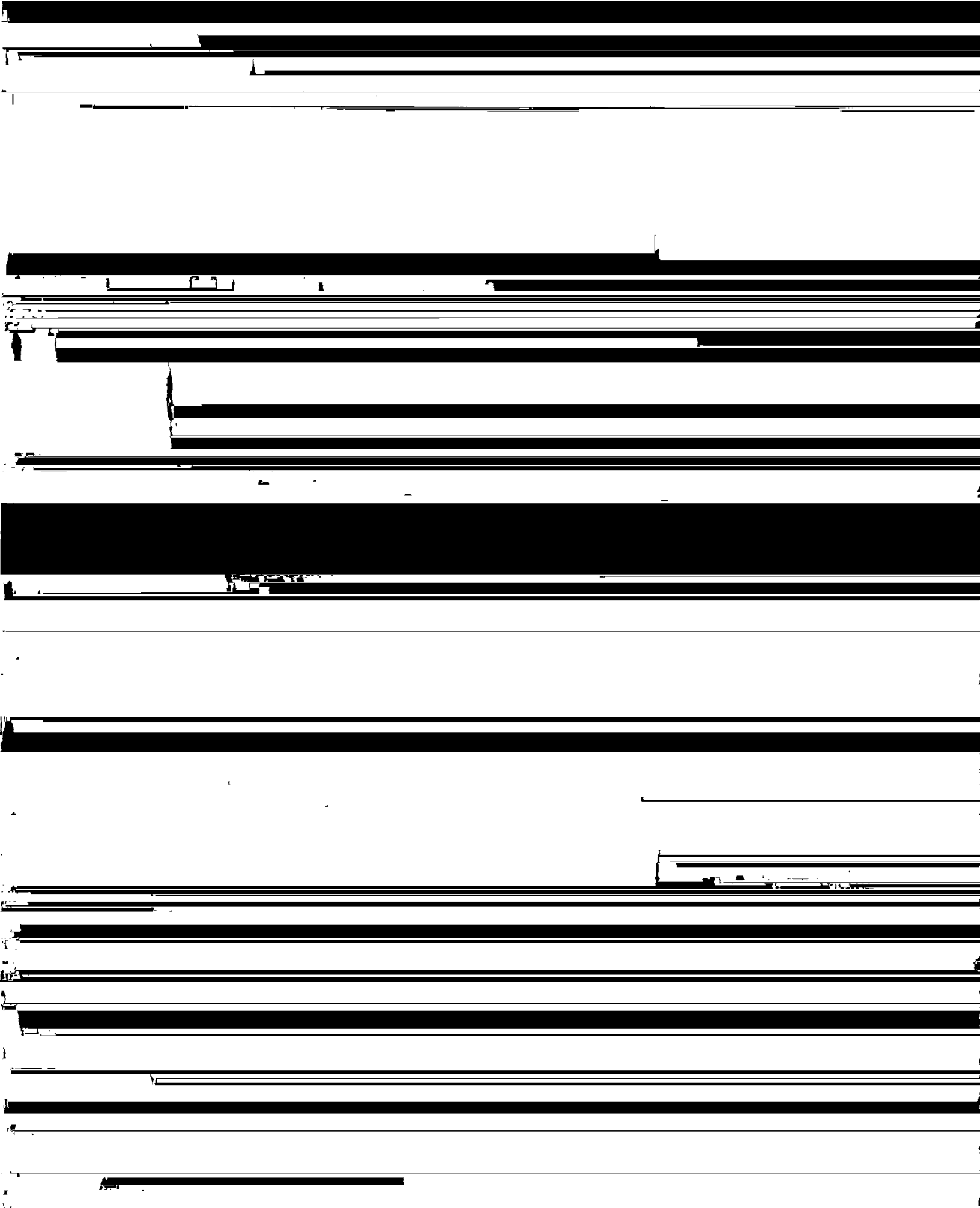
All unclaimed rooms will be declared vacant and the deposit forfeited







School of Arts and Sciences

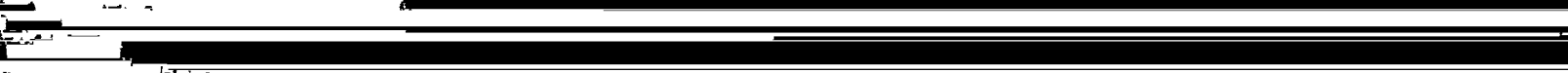
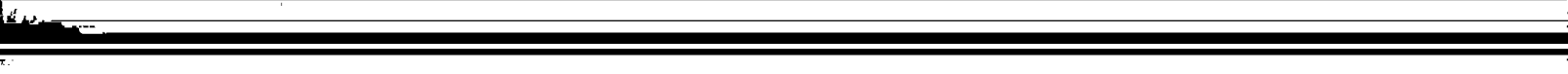


Fourth Year

Twelve consecutive months spent in training at a hospital laboratory







Biology (Bio)

122 124. Human Anatomy and Physiology. Human anatomy and physi-

staining of tissues, paraffin and celloidin sections, conventional mounting.  
Designed for biology majors, pre-medical, pre-dental and medical technology

440—Basic Biology for Teachers. Designed to strengthen the areas in which the biology teacher with a limited background in the biological sciences is most likely to wish additional training. The principles and methods of animal and plant collecting and identification, using standard taxonomic keys. The construction and maintenance of terraria, aquaria, and vivaria, with emphasis on the motivation of student participation in science fairs. Prerequisite: 3 years of teaching experience in science or mathematics. Class: 3 hours. Laboratory: 2 hours. Credit: 4 semester hours.

441—Parasitology. A study of animal parasites including morphology





412—Seminar. A continuation of Chm 411. Prerequisite: Senior stand-

427, 437, 447—Introduction to Research. Senior chemistry students.

Problems are on the undergraduate level and emphasize research tech



DEPARTMENT OF LIBERAL ARTS

Teacher Certification—English

Students wishing to receive the Bachelor of Arts degree in English

132—Rhetoric and Composition. A continuation of English 131. The re-

Gathering and reporting news. Students will gain experience from working with the college weekly newspaper. May not be counted for English major.

Prerequisite: English 132, 134, or 135 with a grade of "C" or better. Class:  
3 hours. Credit: 3 semester hours.

History of the English Language: Theory and nature of language

4317—Contemporary Drama. A study of dramatic trends and representative plays from Ibsen to the present. Class: 3 hours. Credit: 3 semester hours.

4318—Contemporary Poetry. A study of poetic developments in England and America with emphasis on representative poets from the 19th

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Bachelor of Arts—Geology Major.

First Year  
(Same as for Bachelor of Science)

Second Year

First Semester		Second Semester	
Eng 231—Literature .....	3	Eng 232—Literature .....	3
Mth 134—Algebra .....	3	Mth 133—Trigonometry .....	3
Foreign Language .....	2	Foreign Language .....	2

Class: 2 hours. Laboratory: 2 hours. Credit: 3 semester hours each semester.

**237—Physical Geography.** The fundamental concepts of local, regional, and global geography. Prerequisite: sophomore standing. Class: 3 hours. Credit: 3 semester hours.

**239—History of Life.** History of the earth and its inhabitants, with

431—Sedimentation. The derivation, transportation, and deposition of sediments, with emphasis on environmental factors. Laboratory techniques for the study of sediments. Field trip required. Prerequisite: Geo 242. Class: 2 hours. Laboratory: 3 hours. Credit: 3 semester hours.

432—Petroleum Geology. The origin, accumulation, and geologic distribution of petroleum. Subsurface methods: electric and lithologic logs, structure contour maps, sample analysis. Field trips required. Prerequisites: Geo 342 and 431. Class: 2 hours. Laboratory: 3 hours. Credit: 3 semester hours.

433—Geophysics. Application of the principles of physics to geologic problems. Use of geophysical techniques in petroleum exploration. Pre-

Geo 242. Class: 2 hours. Credit: 3 semester hours.



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Third Year

Fourth Year

339—Municipal Government and Administration. The organization, development, functions, and problems of city government in the United States. Designed generally for those interested in a career in City or County government. Class: 3 hours. Credit: 3 semester hours.

419—Seminar. Current issues, problems, and literature in the various specialized areas of government. Credit: 1 semester hour.

430—Public Personnel Administration. The civil service movement; staffing, the human problem, position and pay classification, employment

DEPARTMENT OF LIBERAL ARTS

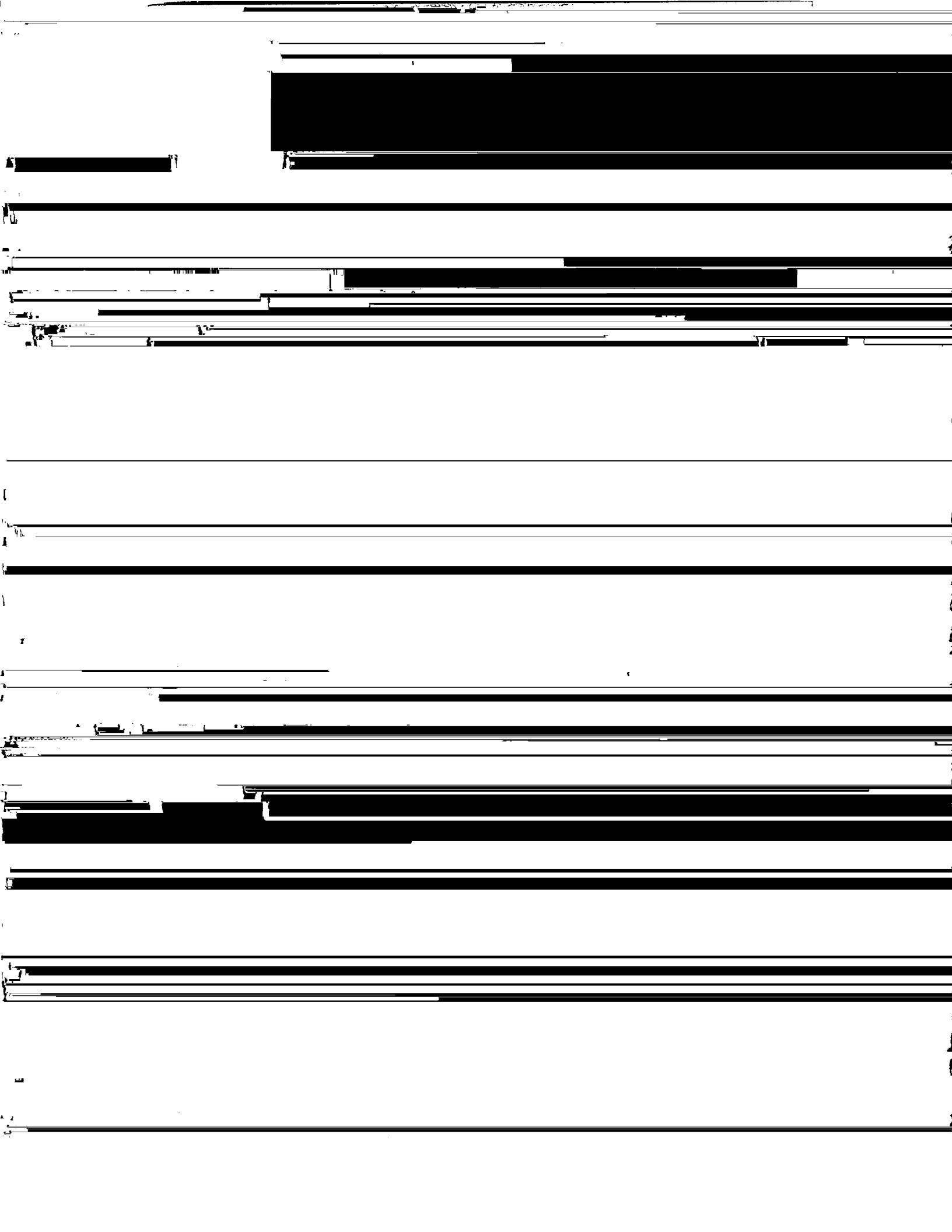




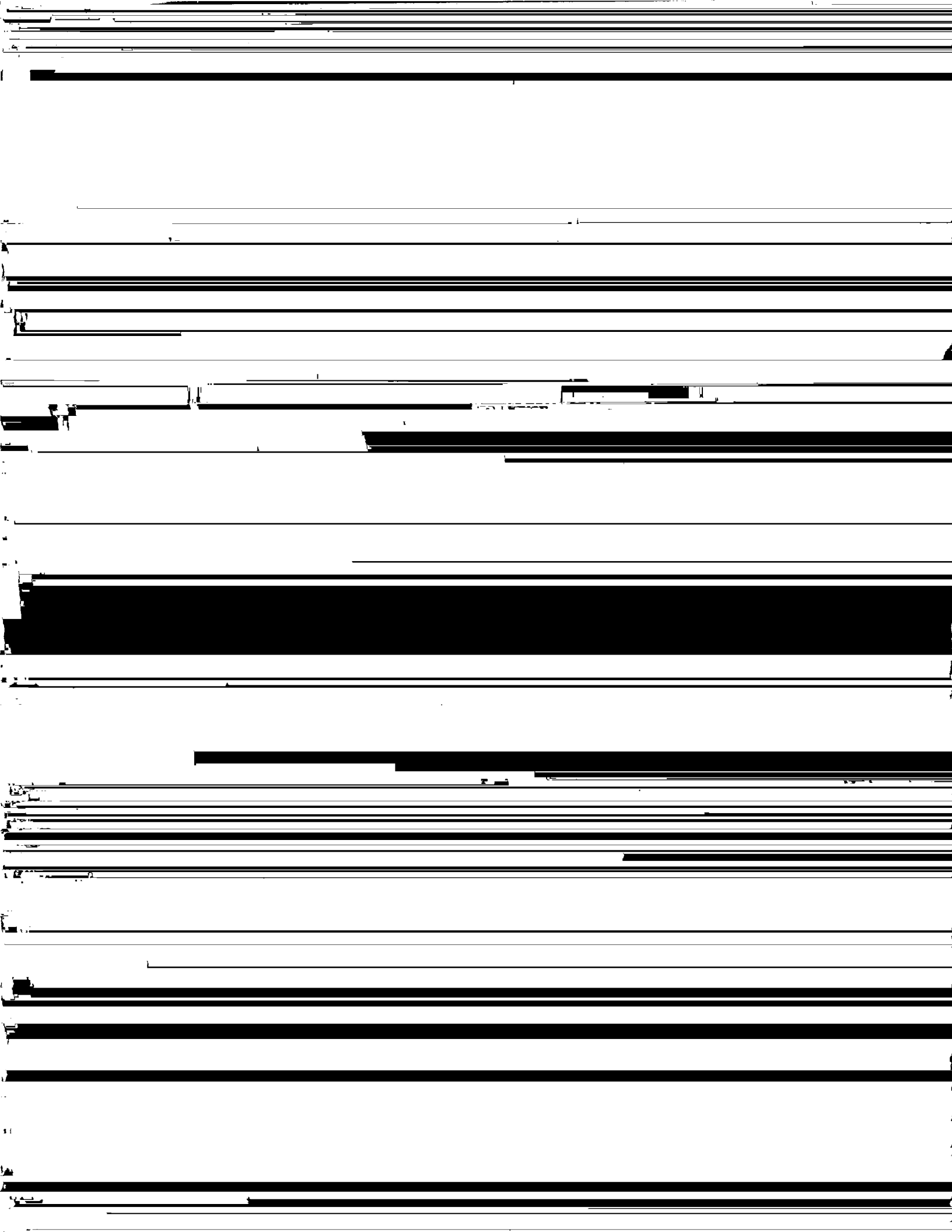
**Master of Arts—History Major**

The Department of History offers two plans of work leading to the  
Master of Arts degree.

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4310—Problems in World History: Ancient and Medieval. Class: 3  
hours. Credit: 2 semester hours



## Program of Study

First Year		Second Year	
Fre 131-132 Beginners .....	6	Fre 231-232 Intermediate.....	6
Eng 131-132 Composition.....	6	Eng 231-232 Brit Lit.....	6
Sci .....	8	His 231-232 United States.....	6
Spc 131 Fund.....	3	Mth .....	6
Phi 231, Soc 131, or Ant 231.....	3	HPE Activity .....	2
HPE Activity .....	2	Elec .....	6
Elec .....	6		
			32
	34		
Third Year		Fourth Year	
Fre 233-234 Literature.....	6	Fre 233-234 Literature.....	6

English 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000





DEPARTMENT OF PHYSICS

Professor Rigney. Associate Professors Biser, Landegren.

Assistant Professors Goines, Shepherd.

High school preparation for the physics major must include 2 units of  
algebra and 1/2 unit of trigonometry. Those having inadequate high school

Science or Engr. Electives.....	6 to 8
Electives .....	6 to 8
	<hr/>
	33

**Physics (Phy)**

**137—Descriptive Astronomy.** A survey of facts and an introduction to important astronomical theories. The solar system, stars, nebulae, and star systems. Class: 2 hours. Department of Physics, University of California, Berkeley.



433—Solid State Physics. Crystal structure; binding forces; mechanical and thermal properties; electrical conductivity; semiconductors; dielectric properties; magnetic properties; surface effects; phosphors and photocon-

DEPARTMENT OF SOCIOLOGY

Professors Boren, Davis. Associate Professor Gibson. Assistant Professors

D. ... ..

## Philosophy (Phl)

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

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

226 Race Relations: Social and cultural minorities groups within

**COURSES IN BIBLE AND RELIGIOUS EDUCATION**

Offered by the Association of Teachers of Religion

The courses described below are offered just off campus. If credit is desired, the fees are the same as for any college course.

A student may take as much as three semester hours of Bible study each semester for a total of two semesters. If the field of study warrants it, the student's academic dean may approve a total of six semester hours.



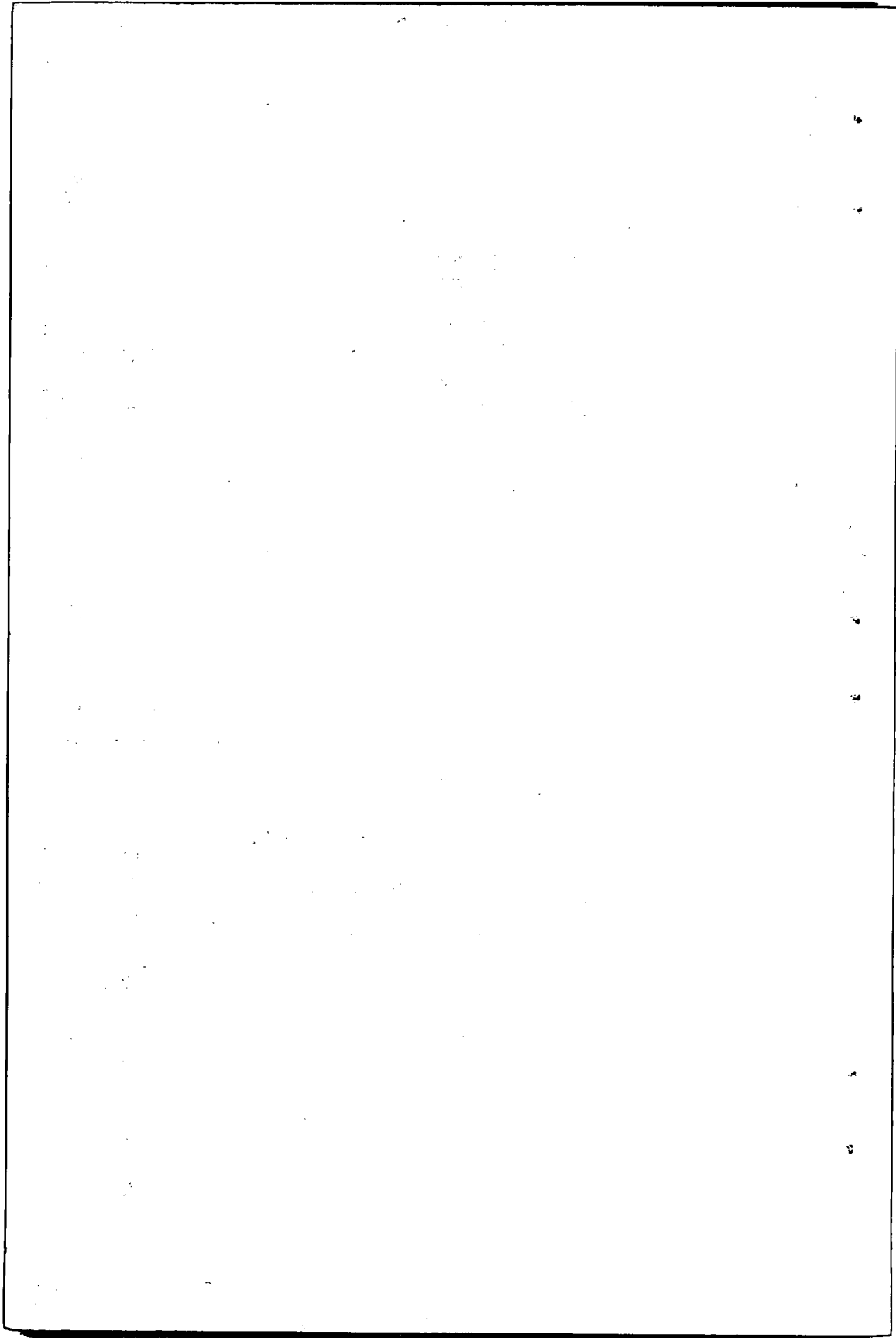
931—Church History. The history of the Christian Church, including the



# SCHOOL OF BUSINESS

Departments

Accounting



School of Business

Professors Landes, Bennett, Hall, Kirksey.

The attainment of these objectives requires not only a given pattern of courses but also successful teaching and research. In classroom presentation, the School utilizes many approaches including lecture, discussion, case method, individual research projects etc. Lower level courses are

D. Professional Specialization (21-22 semester hours)

Acc. Major (22 sem. hours)

- Acc 331, 332—Inter. Acc.
- Acc 334—Cost Acc.
- Acc 346—Tax Acc.
- Acc 430—Auditing
- Acc 431, 432—Adv. Acc.

Economics Major (21 sem. hours)

See Department of Economics in this catalog for specific requirements in this area of specialization.

Gen. Bus. Major (21 sem. hours)

- BA 333—Insurance
- BA 336—Per. Management
- BA 434—Admin. Policies

Management Major (21 sem. hours)

- Acc 334—Cost Acc.
- BA 330—Elem. of Super.
- BA 435—Human Relations

Mth. twelve semester hours (including Case Study)



V. A minimum of 24 semester hours in the field of economics

VI. A minor of 18 semester hours, six of which must be of 300 or 400 level courses.

#### SELECTION OF A MAJOR

Every candidate for a degree must choose a major field in the School of Business. This choice must be made before the beginning of the junior year and is subject to the approval of the head of the department of the major field.

#### DEPARTMENT OF ACCOUNTING

Business and industry are controlled largely through the findings of adequate accounting systems. Accounting is concerned with the analytical recording of transactions related to a large variety of businesses, institu-

Accounting (Acc)

231—Principles of Accounting. Procedures and techniques used in re-

sales insurance receivables intangibles Depositories Act 999

**Programs of Study**

**Bachelor of Business Administration - General Business Major (BBA - G)**

Eng—Literature .....	6	BA 4314—Adm. Policy .....	3
Gov 231, 232—State & Natl. ....	6	Eco 433—Hist. Eco. Tht. ....	3
Spc 331—Professional .....	3	Sec 344—Bus. Commun. ....	4
*Fl-----	2	*Fl-----	2

Third Year		Fourth Year	
Acc 334—Elem. Cost or		BA 335—Indus. Mgmt. ....	3
Eco. 437—Int. Theory .....	3	BA 336—Pers. Mgmt. ....	3
BA 331—Bus. Law .....	3	BA 338—Prin. of Retail .....	3
BA 332—Prin. of Finance .....	3	BA 433—Advertising .....	3
BA 334—Marketing .....	3	BA 4311—Sales Mgmt. ....	3
BA 337—Prin. of Selling .....	3	BA 4312—Mkt. Problems .....	3
BA 431, 432—Bus. Ststes .....	6	Eco 438—Macro Eco. ....	3
Eco 339—Eco. of Firm .....	3	Sec 344—Bus. Commun. ....	4
Gov 232—Natl.....	2	Electives	9

RECEIVED

United States Department of Labor; social legislation. Class: 3 hours.  
Credit: 3 semester hours.

431.—Business Statistics. Introduction to the quantitative methods of



3

tion Job analysis: job evaluation: wage surveys: wage programs: salary

Third Year

Fourth Year

6

monetary and banking theory; national income analysis; stabilization. Class: 3 hours. Credit: 3 semester hours.

**232—Principles.** Continuation of Eco. 231 with attention given to the application of economic principles to economic problems. Distribution of income; labor problems; fiscal policies; international economics; economic systems. Class: 3 hours. Credit: 3 semester hours.

**233—Principles and Policies.** Comprehensive introduction to economic principles and problems for non-business students. Resource utilization; price determination; distribution of income; fiscal and monetary problems.

434—Resources, Functional approach to selected theories and problems

Typewriting is strongly recommended for all communications.

Two-Year Terminal Program in Secretarial Science

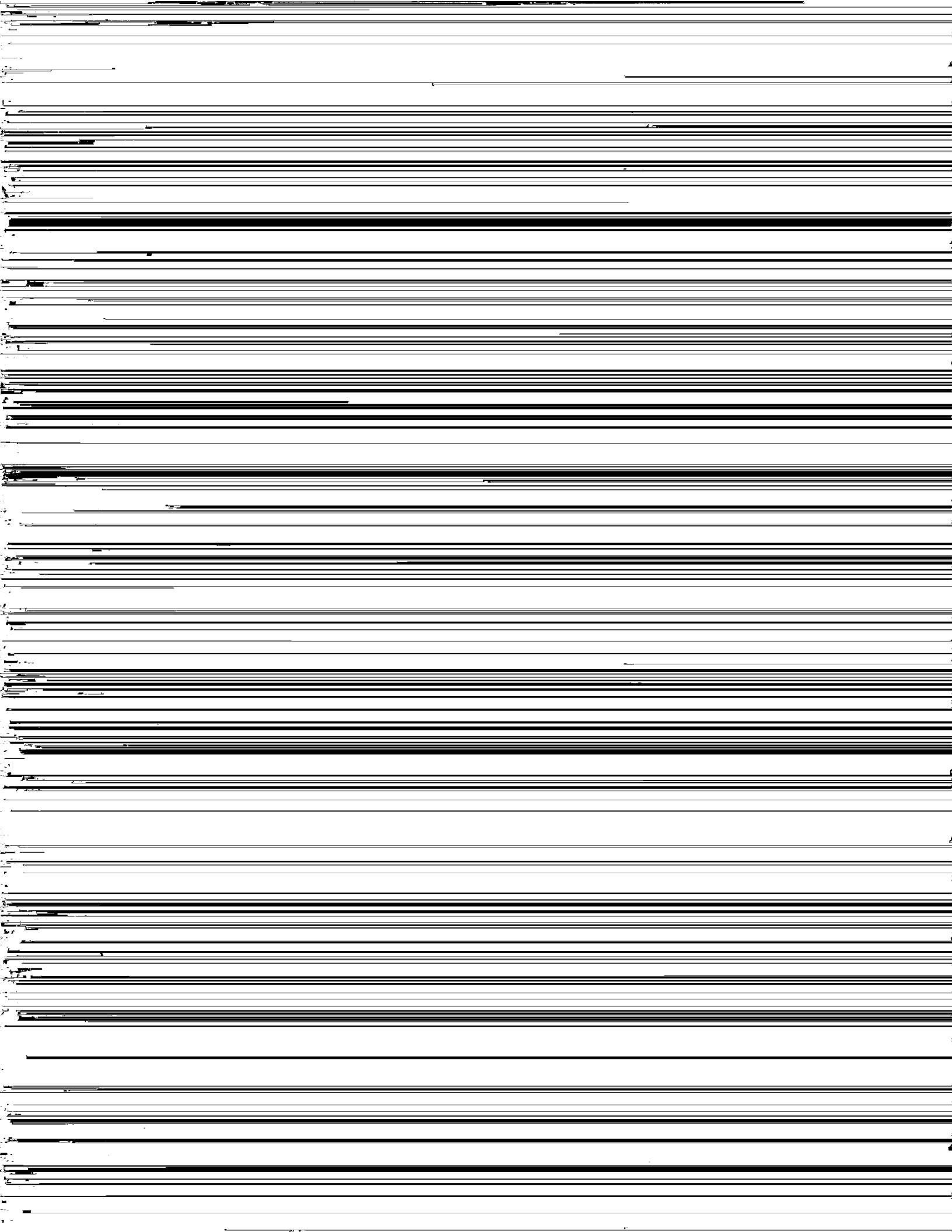
First Year		Second Year	
Eng 131, 132—Comp .....	6	Acc 231, 232—Prin. ....	6
Sec 132—Intern Training	3	Eng 231, 232—Prin .....	6

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

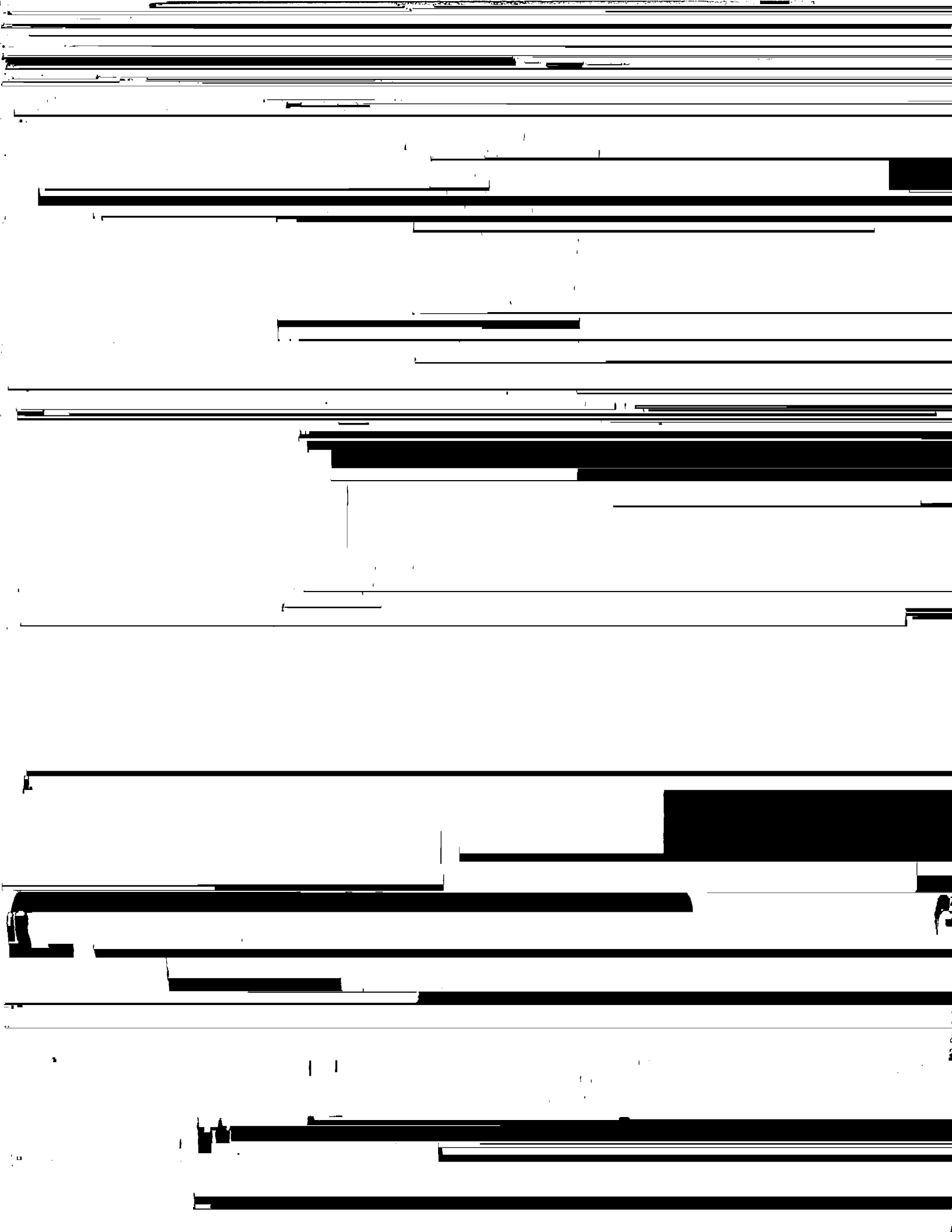
**233—Beginning Shorthand (Short Course).** Introduction of Gregg simplified shorthand. Reading; writing; theory principles; brief forms. Class: 2 hours. Laboratory: 2 hours. Credit: 3 semester hours.

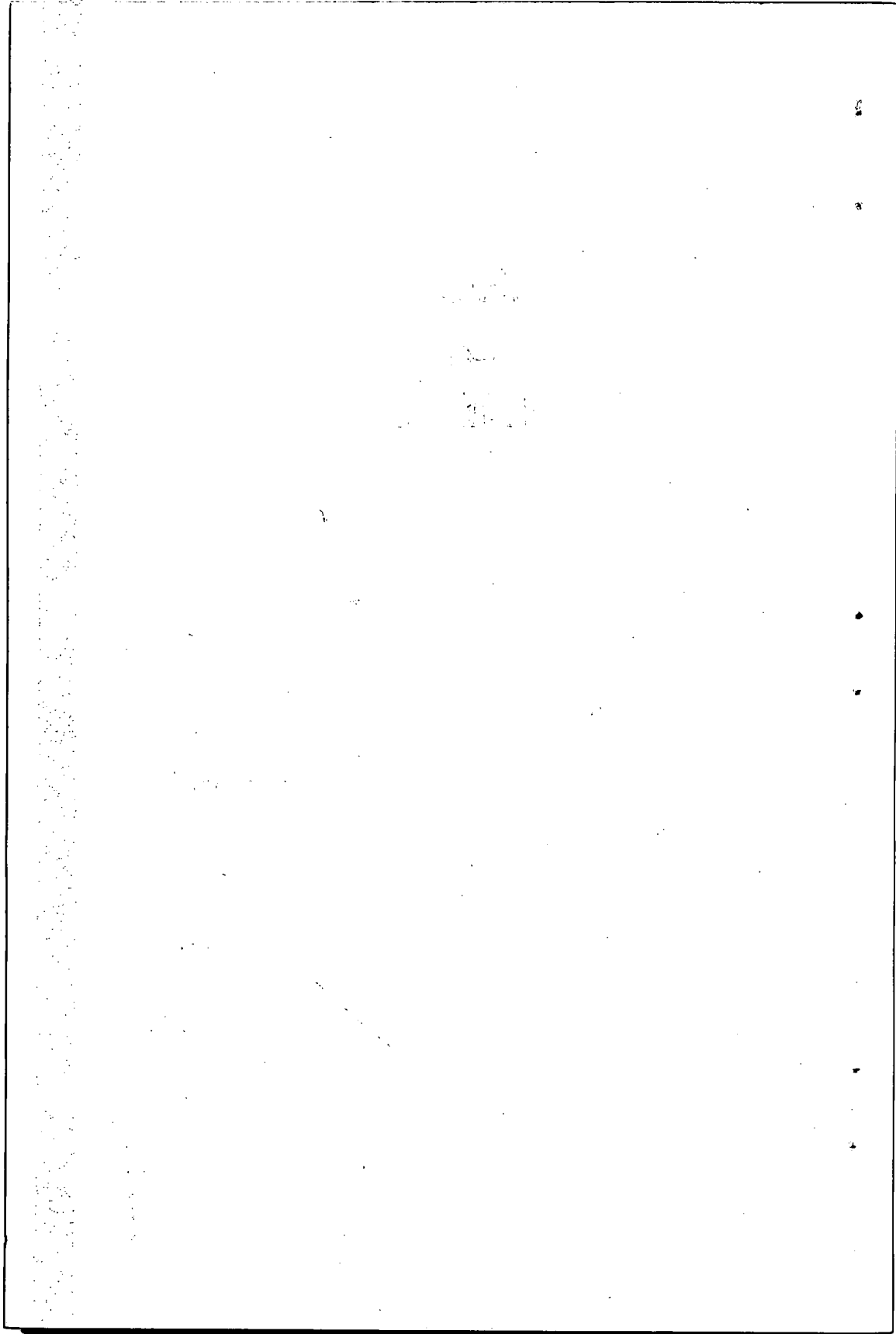
**234—Beginning Shorthand (Short Course.)** Continuation of Sec 233 with intensification of shorthand reading and writing skills. (Sec 233 with sec 234 equivalent to Sec 261) Brief form review; previewed dictation; pretranscription practice. Class: 2 hours. Laboratory: 2 hours. Credit: 3 semester hours.

**261—Beginning Shorthand.** Intensive introduction to Gregg Simplified Shorthand. Reading; writing; theory principles; brief forms; previewed dic-









## School of Engineering

Engineering has been defined as "the art and science by which the properties of matter and sources of power in nature are made useful to man in structures, machines, and manufactured products." The educational objective of the School of Engineering is to prepare its students to take

Physics is a desirable subject to offer from high school, and will be a required subject beginning June, 1965.

Students who meet the general entrance requirements of the College,

## Second Year

## First Semester

## Second Semester

Mth 232—Mth Analysis IV..	3- 0- 3	Mth 234—Prob and Stat.....	3- 0- 3
Mth 233—Linear Algebra....	3- 0- 3	Egr 221—Mat Science.....	2- 0- 2
Phy 241—Elect and Mag	3- 3- 4	Egr 232—Mechanics_III.	3- 0- 3

132—Mechanics I. Utilizes vectors in the study of particle dynamics.  
Statistics of particles and rigid bodies. Energy methods. D'Alembert's

1

including lump parameter and distributed parameter problems will be covered. Analog and digital computer techniques will be introduced and employed. Statistical concepts will be employed. Prerequisite: Mth 4301 or concurrent. Class: 3 hours. Credit: 3 semester hours.

535—Controls Engineering. Principles and analysis of systems and processes with applications drawn from the various engineering fields. Covers controls response stability and compensation. Special topics which

DEPARTMENT OF CHEMICAL ENGINEERING

Accredited by Engineers' Council for Professional Development

71

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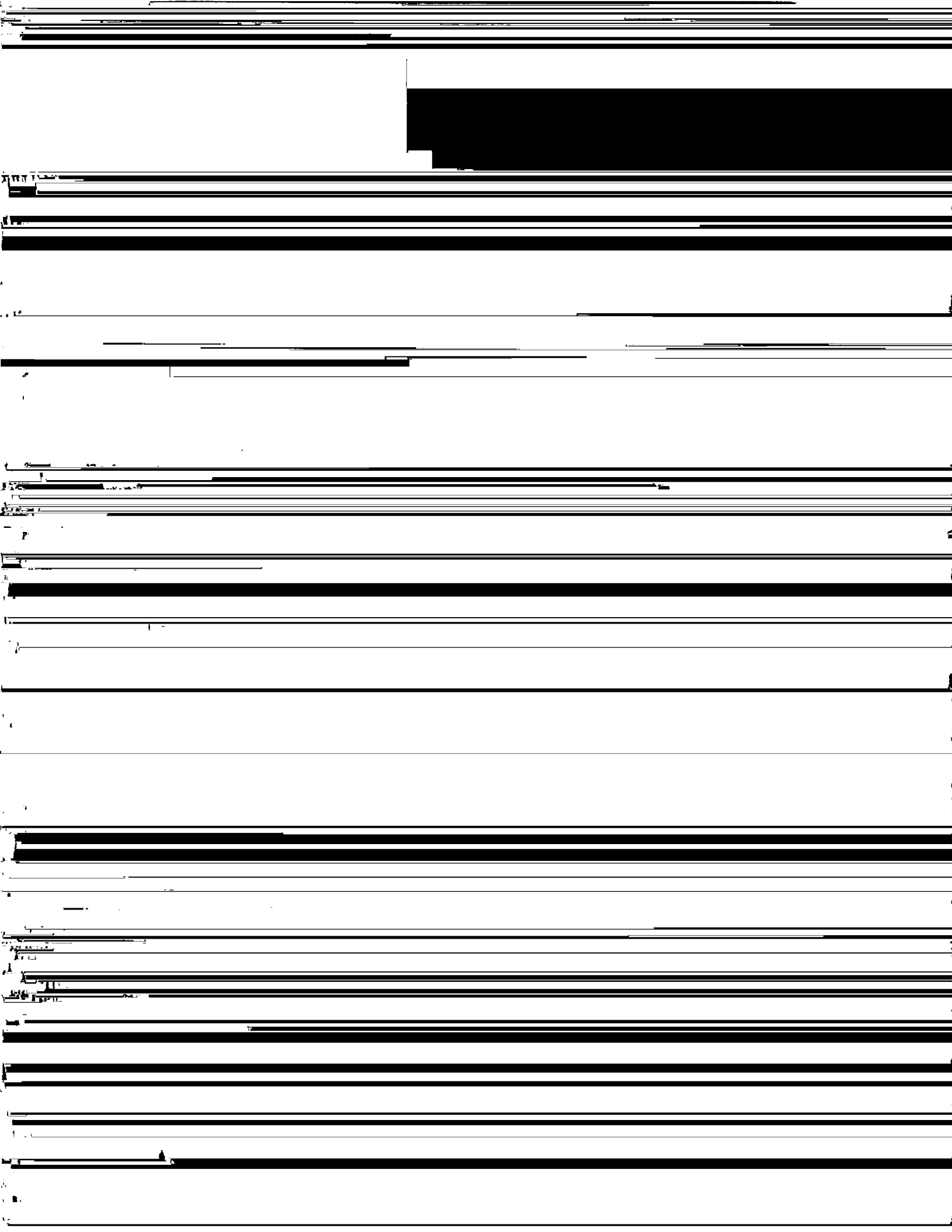


Fourth Year

First Semester

Second Semester



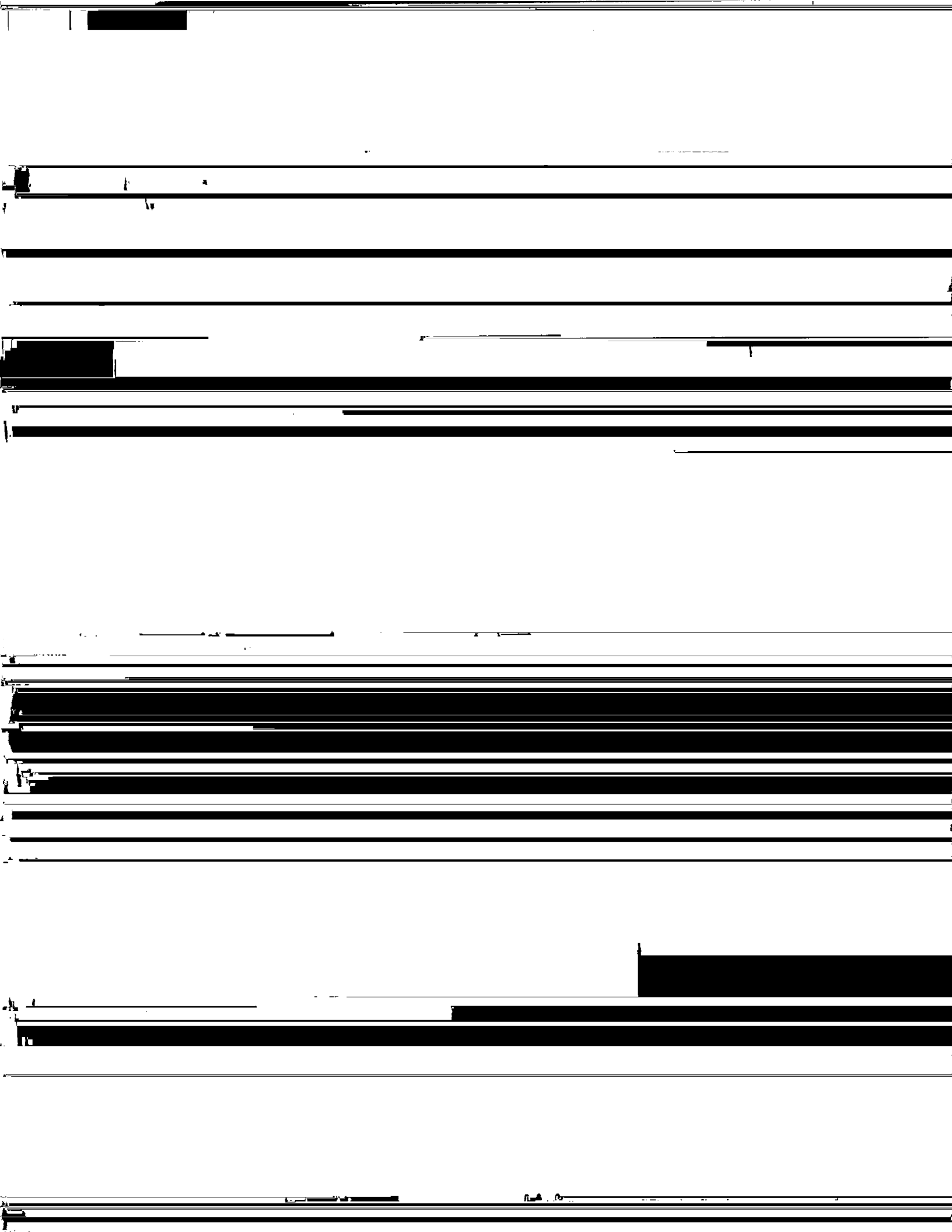


4325—Introduction to Nuclear Engineering. A study of the engineering aspects of nuclear fundamentals and processes. Class: 3 hours. Credit: 3 semester hours.

4326—Applied Mathematics for Chemical Engineers. Application of higher mathematics to the solution of chemical engineering problems. Prerequisite: Mth 232. Class: 3 hours. Credit: 3 semester hours.

4329—Properties of Gases and Liquids. A critical review of various





**Options****Engineering Science**

Student will elect 1 course from each of the A, B, and C Groups and 1 additional course from either of these groups.

**Structures Option**

1 course from Group A

Phy 331—Solid State

CE 4311 or CE 4312—Plastic Design or Adv Struc Design

CE 4313 or CE 4322—Foundation Engr or Struc Dynamics

**Transportation**





analysis. Investigation of frames, girders, and bents. Prerequisite: Engr 232. Class: 2 hours. Laboratory: 3 hours. Credit: 3 hours.

410—Seminar. Involves library and laboratory research. Oral and written reports presented on technical literature. Undergraduate thesis to be approved by board of recommendation and approval. Oral presentation of thesis and defense of thesis required. Class: 1 hour. Credit: 1 semester hour.

tion, rotation, circulation, and drag for two and three dimensional flow situations. Prerequisite: CE 315. Class: 2 hours. Laboratory: 3 hours. Credit:



DEPARTMENT OF ELECTRICAL ENGINEERING

Electives:

Course A M 1 1 1



of the frequency response, stability and compensating methods of systems by using operational calculus. A study of components for use in servo-systems. Prerequisites: EE 421 and EE 425. Class: 2 hours. Credit: 2







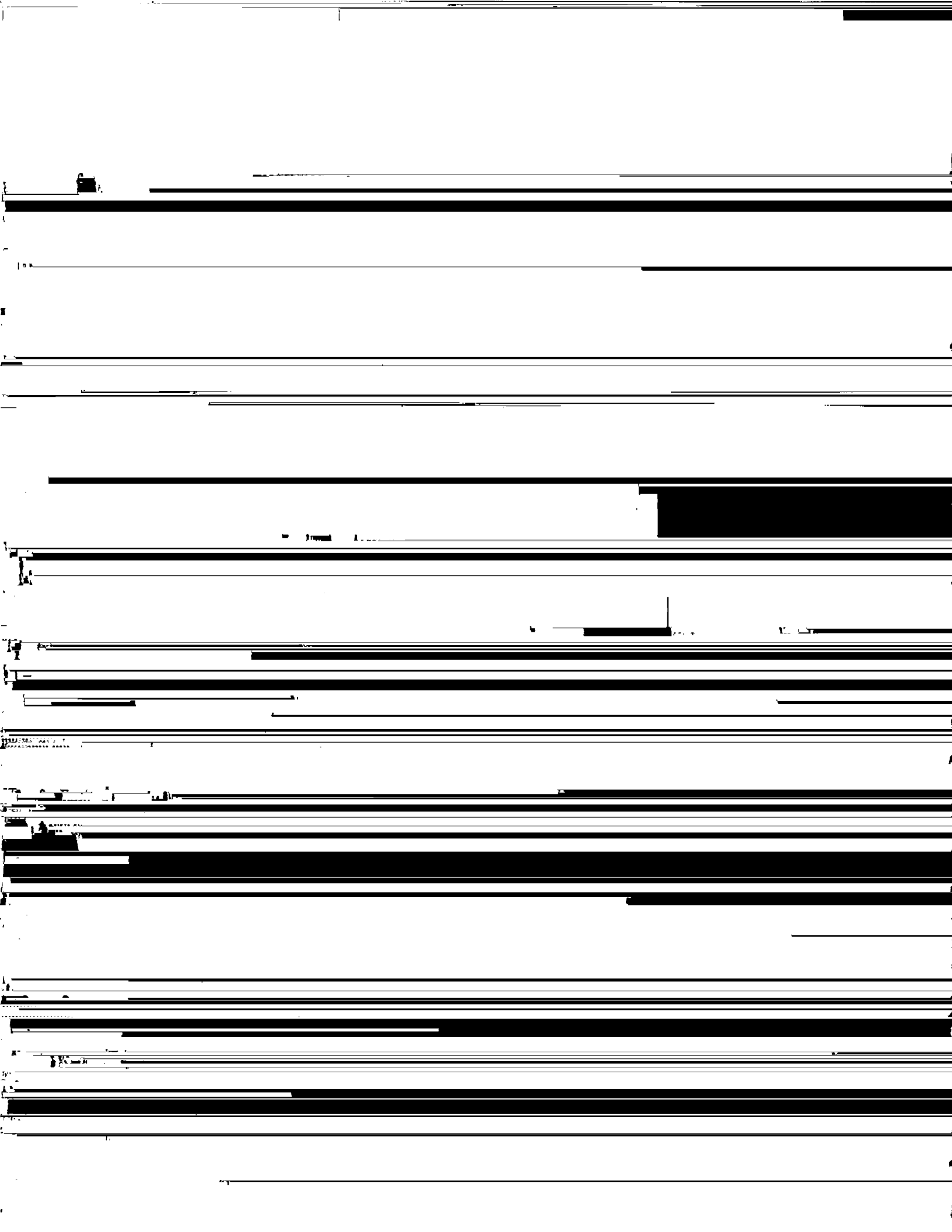
334—Human Relations in Industry. Interrelationships of industry and  
the social system consists of modern industry. Cases are presented for

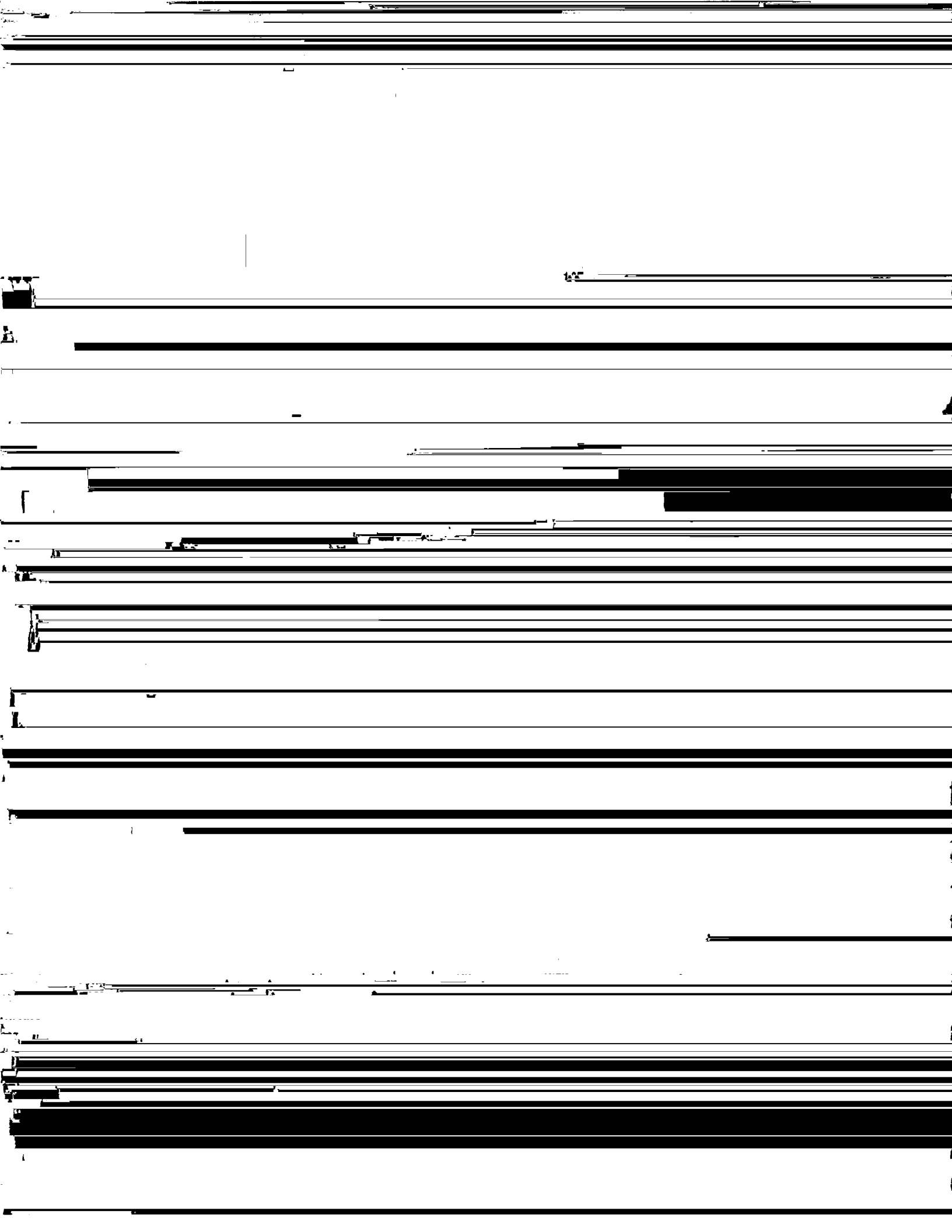
436—**Factory Planning.** An industrial plant is designed, covering location capacity, material routing, machinery type of building, shipping, and an organization is designed to staff the plant. An analysis of the financial

DEPARTMENT OF MECHANICAL ENGINEERING

## Third Year

First Semester		Second Semester	
ME 338—Thermo. II.....	3-0- 3	Egr 333—Electronics .....	3-0- 3
Egr 331—Heat, Mass and Mom. Transfer I.....	3-0- 3	Egr 332—Heat, Mass and Mom. Transfer II.....	3-0- 3
Humanities* .....	3-0- 3	Humanities* .....	3-0- 3
Phy 335—Atomic Physics....	3-0- 3	Eng 3311—Tech. Report	
Spc 331—Bus. & Prof. Spc...	3-0- 3	Writing .....	3-0- 3
ME 332—Elem. Mech.		ME 334—Engr. Anal. I.....	2-3- 3
Des. I .....	2-3- 3	ME 333—Elem. Mech.	
ME 310—Instrmt. Lab.....	0-3- 1	Des. II .....	2-3- 3
		ME 311—Fluid Mech. and Heat Trans Lab	0-3- 1
	17 6.10		





431—Engineering Systems Design. The design techniques of in-



and humidity control. Industrial control systems are considered. Prerequisite: ME 322 or Egr 332. Class: 3 hours. Credit: 3 semester hours.

**4312—Gas Dynamics.** Fundamentals of one-dimensional compressible flow. An introduction to multi-dimensional wave phenomena with various applications. Prerequisite: Egr 322 and approval of department head. Class:

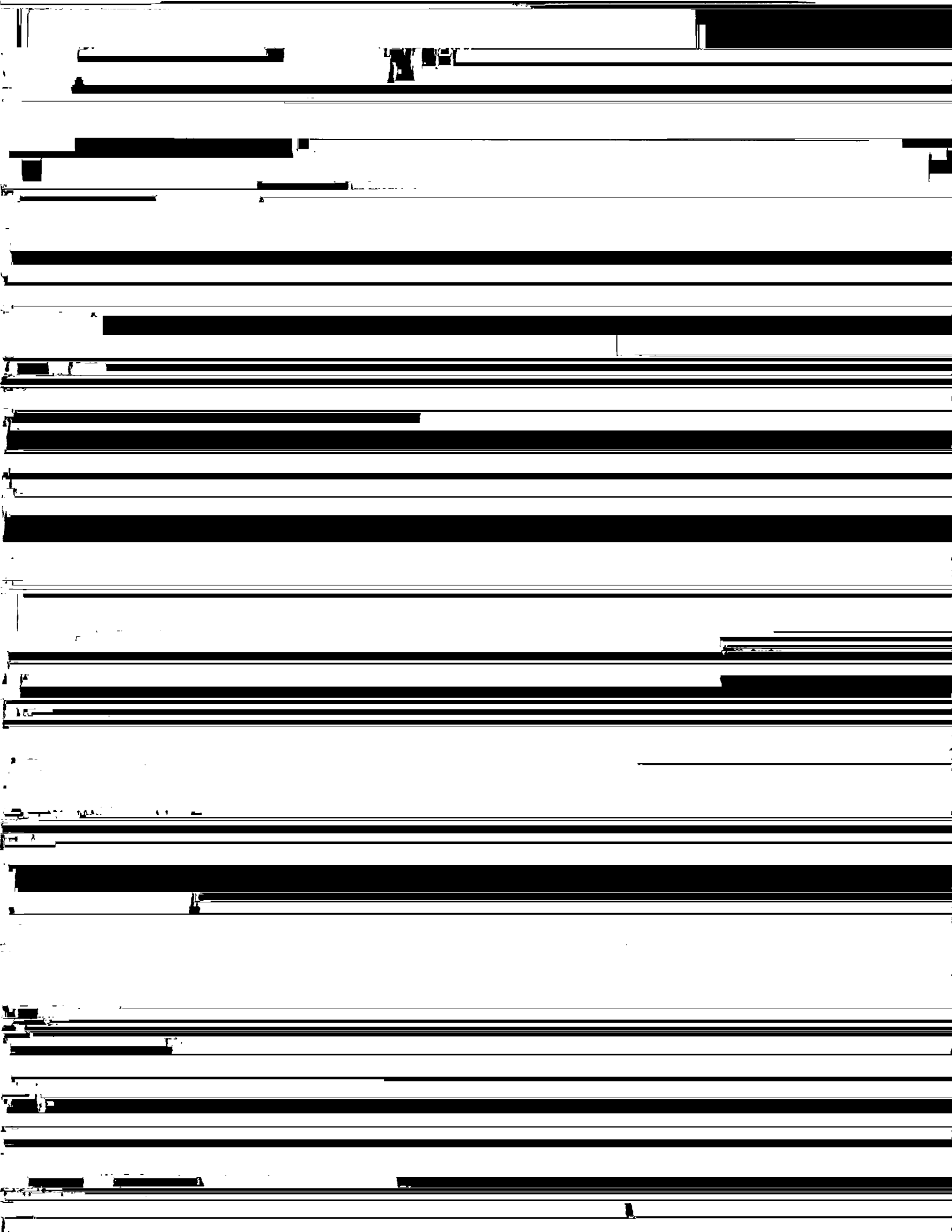
4320—Propulsion Systems. Basic elements of rocket propulsion involving both solid and liquid propulsion systems. Prerequisites: ME 322 and ME 330, or Egr 332. Class: 3 hours. Credit: 3 semester hours.

4321—Celestial Mechanics. An analytical treatment of the mechanics of orbital motion, with applications to the trajectories of astronomical objects and space vehicles. Prerequisite: Egr 332 or parallel. Class: 3 hours. Credit: 3 semester hours.

DEPARTMENT OF MATHEMATICS

Professors Stark, Archer.

Associate Professors Dennis, Latimer, Kerec, Wolkeau.



Fourth Year

First Semester

Second Semester



Mathematics (Mth)

131—Finite Mathematics I. Principles of mathematics, number bases,  
and coordinate geometry. Department of Mathematics, University of California, Berkeley.

331—Differential Equations. Analytical solution of ordinary differential equations in terms of elementary and classical functions. Application to problems in geometry, engineering, and physics. Introduction to solution



4310—Numerical Analysis. Approximations, interpolation, finite differences, numerical integration, curve fitting. Prerequisites: Mth 3301, 331, 337. Mth 4312 must be taken concurrently. Class: 3 hours. Credit: 3 semes-

537—Methods of Applied Mathematics The Dirichlet problem. solu-

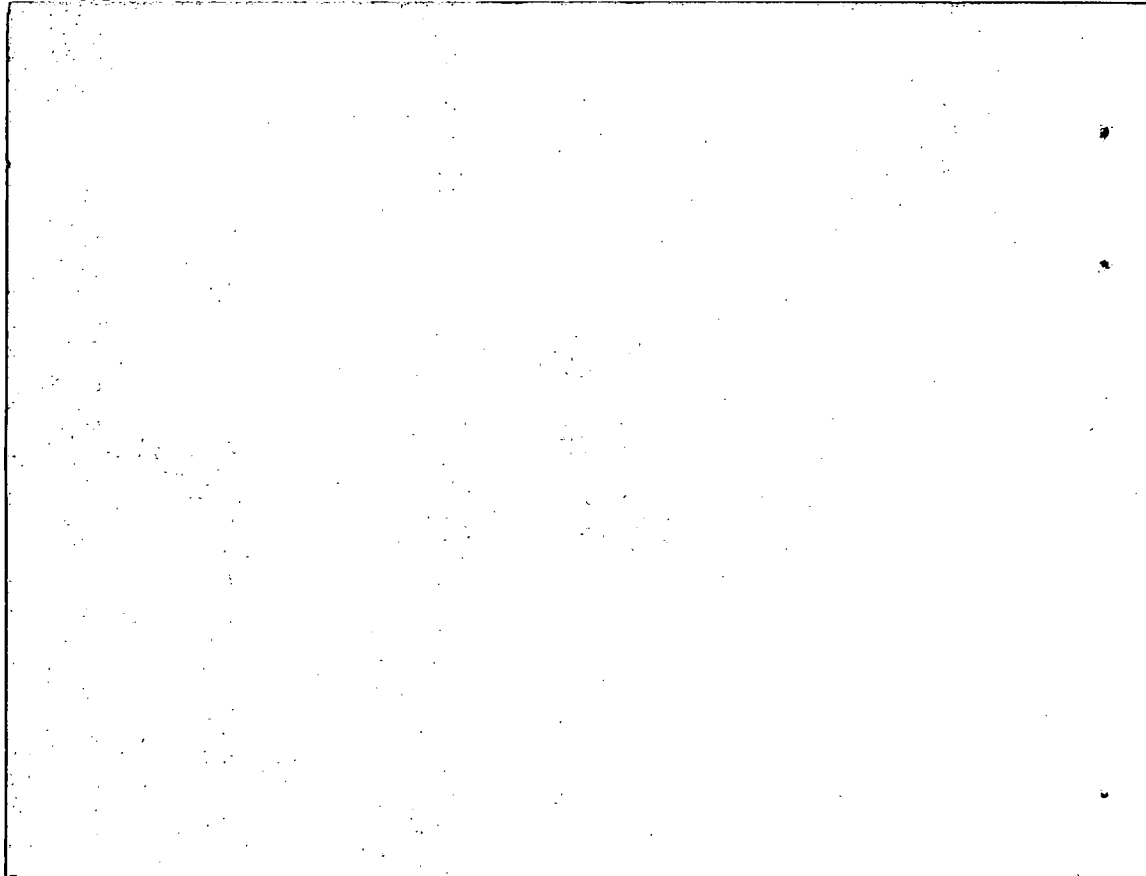
# SCHOOL OF EDUCATION

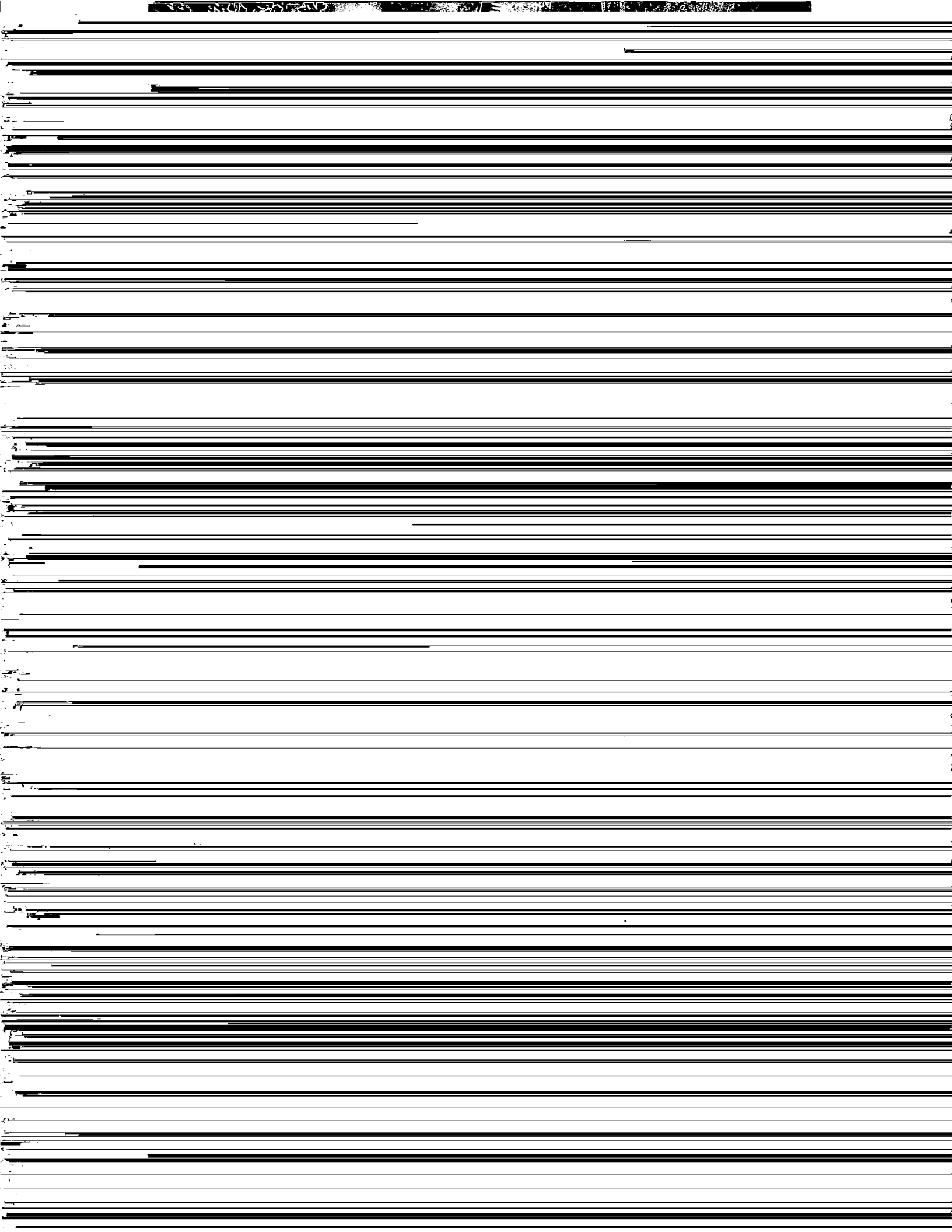
## Departments

Education and Psychology

Home Economics

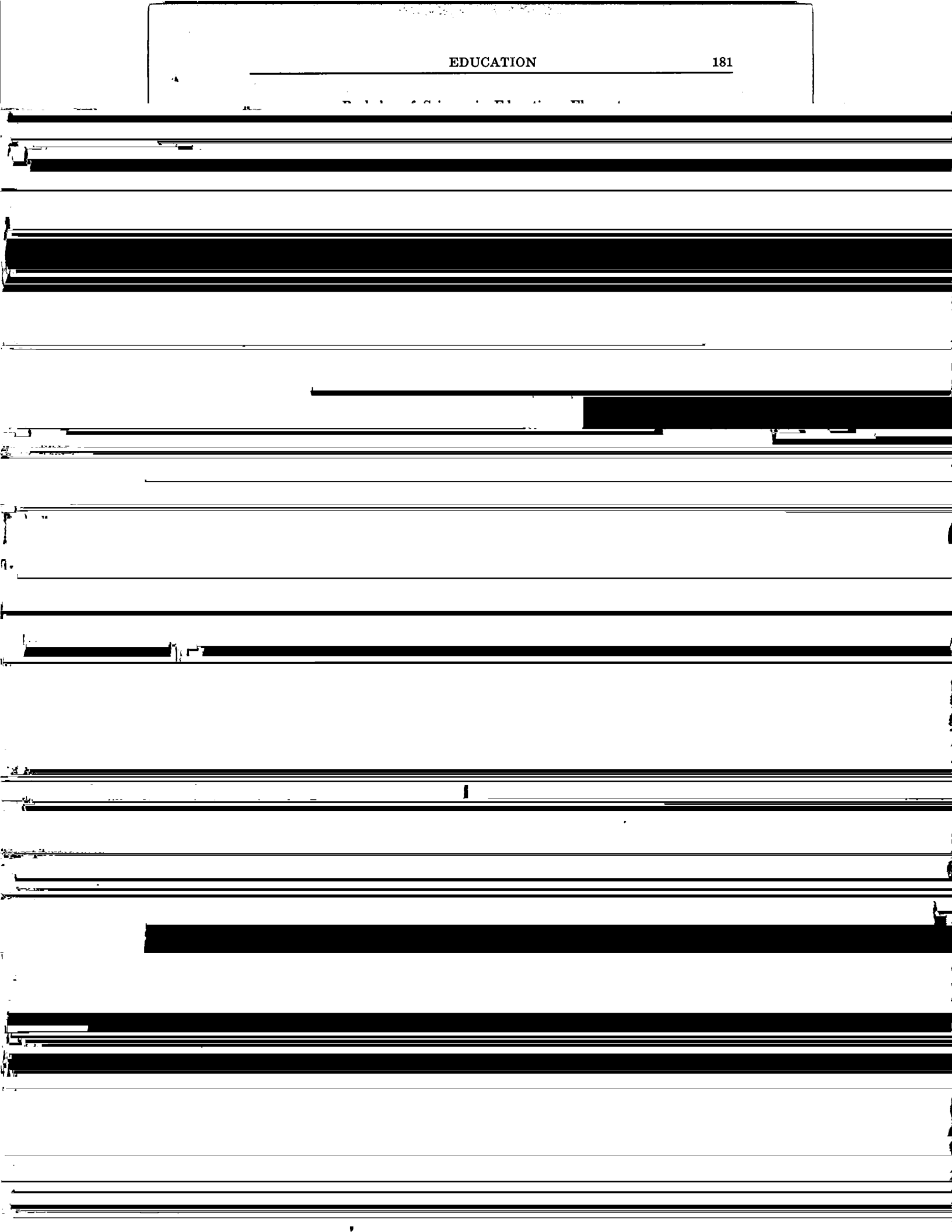
Physical and Health Education





School of Education

DEPARTMENT OF EDUCATION AND PROFESSIONAL STANDARDS







[REDACTED]

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[REDACTED]

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[REDACTED]

[REDACTED]

[REDACTED]

**Academic Specilization****Elementary Education (36 semester hours)**

- A. Specialization in One Subject (18 hours, 9 advanced). Courses must be in one of the following areas: English, history, mathematics, one science, one foreign language, speech, art, music, or physical education. Courses may include 6 hours (8 in science) taken as part of the Academic Foundations.
- B. Work in a Combination of subjects (18 semester hours). Specific requirements are:

**Free Electives (6 semester hours)**

All programs leading to certification provide a minimum of six semester hours to be chosen by the student as free electives.

**Secondary Certification Plans**

**Biology**

Specialization: (24 semester hours) Bio 141, 142, 345, 346, plus 8 hours (4 advanced) of approved Biology courses.

(When selected as area of greatest interest program must also include Chm 141, 142, Bio 243, 244.)

**Chemistry**

Specialization: (24 semester hours) Chm 141, 142, 241, 341, 342, plus 4 hours of advanced Chemistry.

Health & Physical Education (Men)

Specialization: (26 semester hours) HPE 199 295 292M 291 299 292

Spanish

Specialization: (24 semester hours) Spa 131, 132, 231, 232, 333, 334,

**Driver Education**

Certification to teach driver education is available as a special designation on an existing Texas Teaching Certificate. Specific course requirements are as follows:

- HPE 320—Safety and First Aid
- HPE 334—Driver Education
- HPE 416—Student Teaching in Driver Education.

*Certification for Persons with Bachelor's Degrees in Education*

chological procedure, testing methods, and literature of psychology. Class:  
3 hours. Credit: 3 semester hours.

333—Language Arts in the Elementary School. The study and use of  
materials and techniques in the teaching of spelling, English, and writing.  
3 hours. Credit: 3 semester hours.



499. *Classroom Management* ...

534—**Advanced Study in Child Psychology.** A study of the development and nature of the human personality. Emphasis on recent psychological and biological experiments. Prerequisites: graduate standing. Class: 3 hours. Credit: 3 semester hours.

535—**Advanced Educational Psychology.** Current theories and developments in the process of learning. Emphasis on motivation, transfer, and learning techniques. Prerequisite: graduate standing. Class: 3 hours. Credit: 3 semester hours.

536—**Problems in Teaching the Language Arts and Social Studies.** Recent developments and trends with primary consideration given to indi

331—Experimental Psychology. Techniques to demonstrate and investigate concepts in psychology. Prerequisite: Psy 230. Class: 3 hours. Credit: 3 semester hours.

332—Introduction to Statistical Methods. Statistical concepts and techniques used in psychological research. Class: 3 hours. Credit: 3 semester hours.

DEPARTMENT OF HOME ECONOMICS  
Professor Tannahill. Assistant Professor Davis.

Bachelor of Science in Home Economics

Third Year		Fourth Year	
Eco 231—Principles .....	3	HEc 433—Household Equip.....	3
Edu 331—Found in Edu Cur.....	3	HEc 444—Home Management....	4
HEc 331—Clothing Const.....	3	HEc 447—Career Workshop.....	4
HEc 332—Nutrition .....	3	Electives .....	21
HEc 333—Child Care.....	3		
HEc 334—Nursery School.....	3		32
HEc 335—Home Furnishing.....	3		
His 231-232—United States.....	6		
Electives .....	3-5		
30-32.			

Plan II (For those who wish to qualify for a teacher's certificate).

First Year		Second Year	
Eng 131-132—Composition .....	6	Eng—Literature .....	6
Chm 143-144—Introductory .....	8	Gov 231-232—State & Nat.....	6
HEc 111—Survey .....	1	HEc 231—Textiles .....	3
HEc 131—Food Preparation .....	3	HEc 232—Art in Dress.....	3
HEc 132—Beginning Clothing .....	2	HEc 235—Food Management.....	2

131—Fundamentals of Food Preparation and Serving. Principles

1990-1991







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I	II	III	IV	IV
English	Art	Biology	History	Sociology
For. Lang.	Music	Chemistry	Government	Anthropology

229—Water Safety Instructor Course. Organization, conditioning, and preparation of student in the required swimming and life saving skills

instructing students. For teaching professional students how to teach driver

~~1. *Teaching Professional Students How to Teach Driver* Class: 3 hours Credit: 3~~



Theory Courses

132—Principles of Physical Education. Definition, terminology, aims, objectives, and history of physical education, and health education. Includes the nature of and specialized areas within the profession. Class: 3 hours. Credit: 3 semester hours.

133—Physical Education in the Elementary School. The theory and

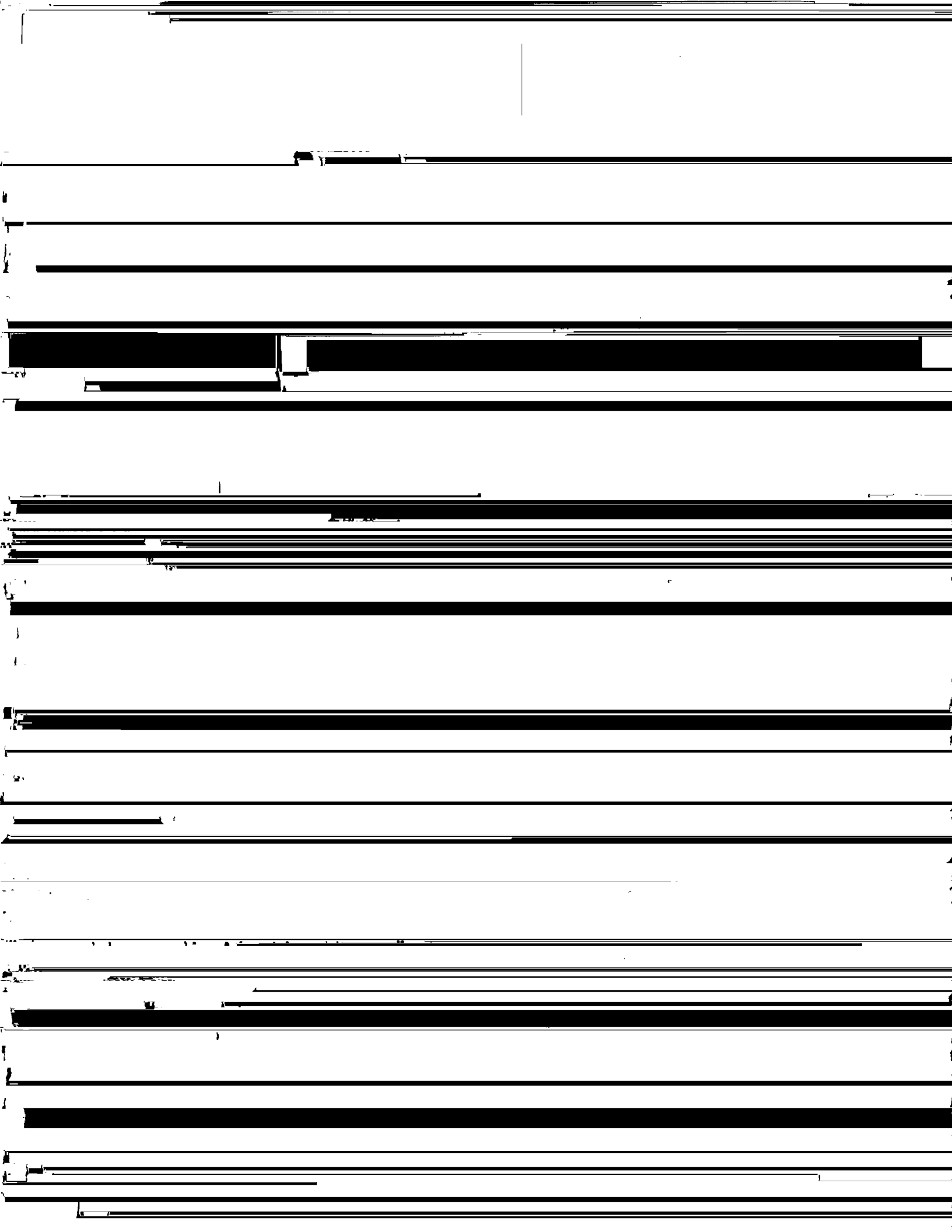
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**Activity Courses**

The following are activity courses from which four hours must be selected for graduation. This requirement is met during both semesters of the freshman and sophomore years. It is recommended that the student take one sport, one dance, one aquatic and one elective hour.

Students enrolled in Physical Education are required to have regulation costumes which may be purchased in the college bookstore. Equipment for class work is provided by the student.

The physical education activity program is geared to meet the needs





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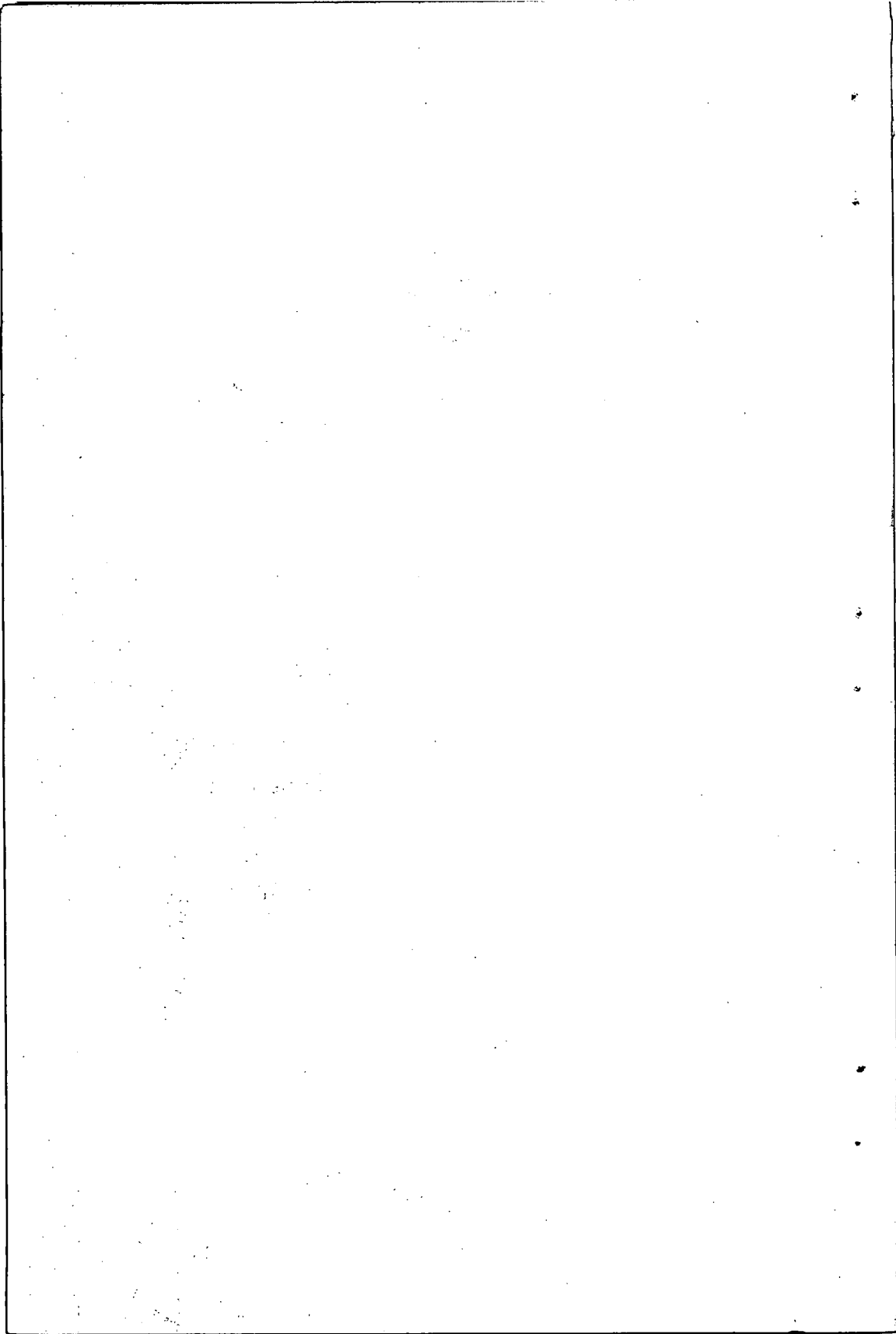
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# School of Fine and Applied Arts

## DEPARTMENT OF COMMERCIAL ART

Professor Boughton. Associate Professor Kerr. Assistant Professors Hock,  
Madden, Rogan. Instructors Newman, O'Neill.

B. L. S. C. 111

2. CA 137, 138, 235, 236, 337, 338, 437, 438 and 6 hours of CA electives are required in place of the Commercial Art courses listed in the above degree program.

9. Education courses: 291-299, 399, 499, 499

237, 238—Drawing and Painting. Watercolor. Study and practice in the planning and execution of paintings in transparent and opaque watercolor.

DEPARTMENT OF MUSIC

Professor Parks, Wiley. Associate Professors Kaszynski. Assistant

Professors Bennett, Brooks, Duplantier, Galt, Hill

212

FINE ARTS

Instrument Major

First Year



Fourth Year

First Semester

Second Semester

Third Year

First Semester		Second Semester	
Edu .....	6	Edu .....	3
Gov 231—State .....	3	Gov 232—National .....	3
MA 3241—Piano .....	2	MA 3242—Piano .....	2
MTy 325—Choral Mus. ....	2	MTy 327—Choral Cond. ....	2
		MTy 328—Choral Mus. ....	2

Third Year

First Semester

Second Semester

Edu .....	6	Edu .....	3
MA 3281—Voice .....	2	MA 3282—Voice .....	2
MTy 325—Choral Mus .....	2	MTy 327—Choral Cond .....	2
MLt 323—Mus Hist .....	2	MTy 329—Counterpoint .....	2



proficiency in accompanying, ensemble, chamber music and solo recital playing. Two one-half hour lessons per week. Credit: 2 semester hours per course.

1143, 1144—Secondary Piano. Study of scale systems and application, intervals, chord structure, harmonization of melody, and other elements of keyboard harmony. Two octave scales and cadences. Maximum of four students per class. Class: 1 hour. Credit: 1 semester hour.

1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900



**Music Theory (MTy)**

**121—Woodwinds.** Materials for the woodwinds instruments. Performance on all woodwind instruments. Class: 2 hours. Lab: 1 hour. Credit: 2 semester hours.

**122—Brass.** Materials for the brass instruments. Performance on all brass instruments. Class: 2 hours. Lab: 1 hour. Credit: 2 semester hours.

**131—Elements of Music.** A study of scales, chords, musical terminology, signatures, sight singing and rhythms. Designed to prepare students for advanced study in music theory or to familiarize non-music majors with the meaning of musical notation and the harmonic, melodic, and rhythmic structure of music. Class: 3 hours. Credit: 3 semester hours.



niques. Prerequisites: Some vocal study, piano keyboard, two years of vocal laboratory and music theory. Two class hours per week. Credits: 2 semester

DEPARTMENT OF SPEECH

D. C. ... Y. ... G. ... Associate Professor ... Anderson ... Blanton

Third Year

Fourth Year

Ed. 2210 Ed. Element Child 12 Ed. 404 Cl. M. 1 0

cial types of speeches with emphasis placed on extemporaneous speaking.  
Prerequisite: Speech 131, Class: 3 hours. Credit: 3 semester hours.

132 Voice Science, Phonetic transcription, regional and foreign dia

315—Parliamentary Procedure. Drafting of a constitution and by-laws; election and duties of officers; function of committees; rules governing presentation and disposal of motions. Class: 3 hours first six weeks. Credit: 1 semester hour.

330—Rhetoric and Public Address. A study and analysis of some of

339—**Beginning Clinical Practice in Speech and Hearing Therapy.** Diagnostic and therapeutic procedures in speech and hearing therapy. One hour of clinical practice per week per credit hour. Class: 3 hours. Credit: 3 semester hours.

430—**Problems and Projects in Speech.** These problems are discussed and analyzed through discussion and research. Each student selects a proj-

# GRADUATE SCHOOL

## Departments

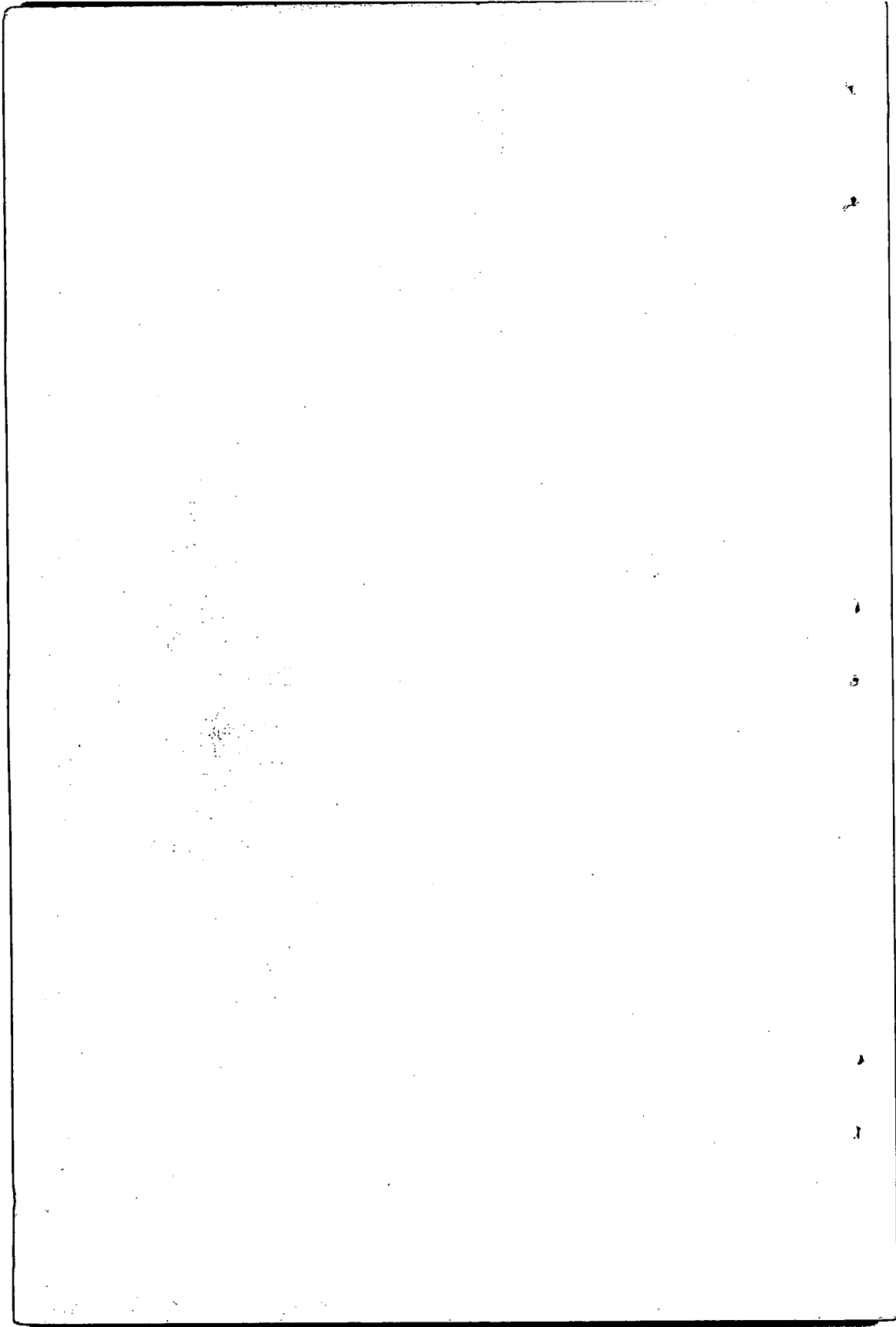
Education

Engineering

English

History

Mathematics







# The Graduate School

## The Graduate Council

The Graduate Program is administered by the Graduate Council which has the following membership: (1962-1963)

Richard W. Sisson, Ph.D., Dean, Graduate School, Chairman

1. An applicant must hold a bachelor's degree or its equivalent from an institution approved by a recognized accrediting agency

6. The Dean of the Graduate School will notify the applicant of his admission to the Graduate School. All transcripts, certificates, etc., become the property of the Graduate School and are not returnable.

#### Special Students

An applicant who wishes to enroll in a graduate course without receiving credit toward any graduate degree may do so under the following conditions.

1. He must hold a bachelor's degree.
2. He must have the written consent of the department head concerned and the Dean of the Graduate School.
3. An individual may not pursue more than two courses under this agreement and only one such course in any semester or summer term.

**HOW TO ENTER LAMAR STATE COLLEGE**

**If You Have Graduated from High School**

1. Make application on regular form.

