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BULLETIN

The University of Georgia

Volume LI, No. 7f

June, 1951

General Catalogue



Register for 1950-1951

Announcements for 1951-1952

Athens, Georgia

7
1951
BULLETIN

The University of Georgia

GENERAL CATALOGUE

1951-1952

ATHENS, GEORGIA

1951

CALENDAR

1951

APRIL							JULY							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	---	1	2	3	4	5	6
8	9	10	11	12	13	14	8	9	10	11	12	13	14	7	8	9	10	11	12	13
15	16	17	18	19	20	21	15	16	17	18	19	20	21	14	15	16	17	18	19	20
22	23	24	25	26	27	28	22	23	24	25	26	27	28	21	22	23	24	25	26	27
29	30	---	---	---	---	---	29	30	31	---	---	---	---	28	29	30	31	---	---	---
MAY							AUGUST							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
---	---	1	2	3	4	5	---	---	---	1	2	3	4	---	---	---	---	1	2	3
6	7	8	9	10	11	12	5	6	7	8	9	10	11	4	5	6	7	8	9	10
13	14	15	16	17	18	19	12	13	14	15	16	17	18	11	12	13	14	15	16	17
20	21	22	23	24	25	26	19	20	21	22	23	24	25	18	19	20	21	22	23	24
27	28	29	30	31	---	---	26	27	28	29	30	31	---	25	26	27	28	29	30	---
JUNE							SEPTEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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3	4	5	6	7	8	9	2	3	4	5	6	7	8	2	3	4	5	6	7	8
10	11	12	13	14	15	16	9	10	11	12	13	14	15	9	10	11	12	13	14	15
17	18	19	20	21	22	23	16	17	18	19	20	21	22	16	17	18	19	20	21	22
24	25	26	27	28	29	30	23	24	25	26	27	28	29	23	24	25	26	27	28	29
---	---	---	---	---	---	---	30	---	---	---	---	---	---	30	31	---	---	---	---	---

1952

CALENDAR

1952

JANUARY							APRIL							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
---	---	1	2	3	4	5	---	---	1	2	3	4	5	---	---	1	2	3	4	5
6	7	8	9	10	11	12	6	7	8	9	10	11	12	6	7	8	9	10	11	12
13	14	15	16	17	18	19	13	14	15	16	17	18	19	13	14	15	16	17	18	19
20	21	22	23	24	25	26	20	21	22	23	24	25	26	20	21	22	23	24	25	26
27	28	29	30	31	---	---	27	28	29	30	---	---	---	27	28	29	30	31	---	---
FEBRUARY							MAY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
---	---	---	---	---	1	2	---	---	---	---	1	2	3	---	---	---	---	---	1	2
3	4	5	6	7	8	9	4	5	6	7	8	9	10	3	4	5	6	7	8	9
10	11	12	13	14	15	16	11	12	13	14	15	16	17	10	11	12	13	14	15	16
17	18	19	20	21	22	23	18	19	20	21	22	23	24	17	18	19	20	21	22	23
24	25	26	27	28	29	---	25	26	27	28	29	30	31	24	25	26	27	28	29	30
---	---	---	---	---	---	---	---	---	---	---	---	---	---	31	---	---	---	---	---	---
MARCH							JUNE							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
---	---	---	---	---	---	1	1	2	3	4	5	6	7	---	1	2	3	4	5	6
2	3	4	5	6	7	8	8	9	10	11	12	13	14	7	8	9	10	11	12	13
9	10	11	12	13	14	15	15	16	17	18	19	20	21	14	15	16	17	18	19	20
16	17	18	19	20	21	22	22	23	24	25	26	27	28	21	22	23	24	25	26	27
23	24	25	26	27	28	29	29	30	---	---	---	---	---	28	29	30	---	---	---	---
30	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

CALENDAR, 1951-1952

SUMMER QUARTER, 1951

First Term

JUNE 13:	Registration
JUNE 14:	Classes begin
JULY 4:	Legal Holiday
JULY 26:	Term ends

Second Term

JULY 30:	Registration and classes begin
AUGUST 21:	Term ends
AUGUST 22:	Graduation

FALL QUARTER, 1951

SEPTEMBER 18:	Freshmen get registration envelopes 2 to 5 p. m. Assembly at 7 p. m.
SEPTEMBER 18-22:	Freshman week
SEPTEMBER 19:	Registration envelopes for all students
SEPTEMBER 20-22:	Registration—Freshmen 1 to 3 p. m. on the 20th. Other classes 3 p. m. on the 20th to 10 a. m. on the 22nd
SEPTEMBER 24:	Classes begin for all students
NOVEMBER 3:	Homecoming
NOVEMBER 22-24:	Thanksgiving recess
DECEMBER 1:	Georgia-Tech football game
DECEMBER 13:	Classes end
DECEMBER 14-19:	Examinations
DECEMBER 19:	Christmas vacation begins

WINTER QUARTER, 1952

JANUARY 2:	Registration
JANUARY 3:	Classes begin
FEBRUARY 28:	Constitution examination—3:30 p. m. Room 212 Academic Building
MARCH 8:	G Day
MARCH 13:	Classes end
MARCH 14-19:	Examinations
MARCH 20-22:	Spring recess

SPRING QUARTER, 1952

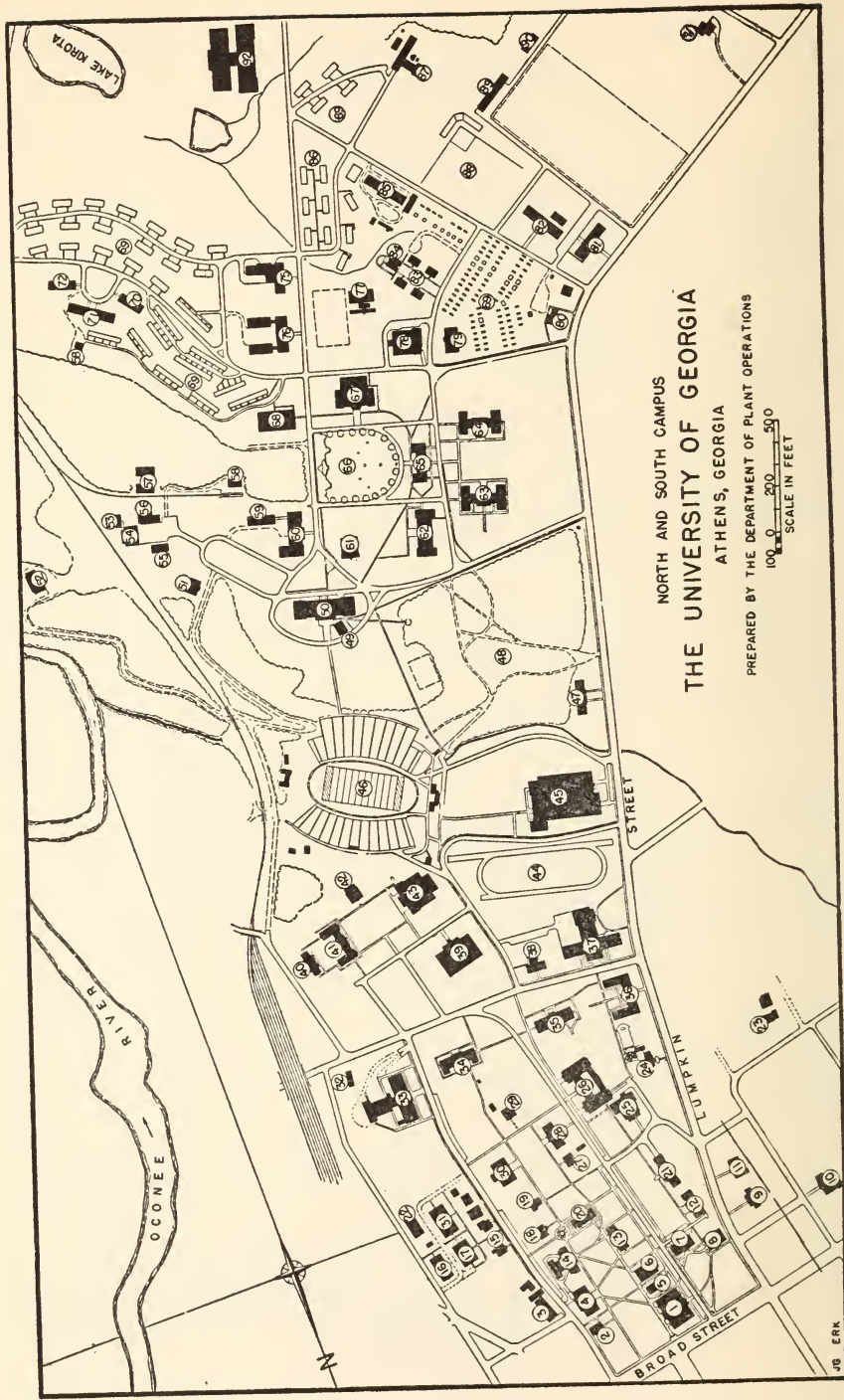
MARCH 24:	Registration
MARCH 25:	Classes begin
MAY 31:	Classes end
JUNE 1:	Baccalaureate Sermon
JUNE 2-5:	Examinations
JUNE 5:	Graduation

SUMMER QUARTER, 1952

JUNE 11:	Registration
JUNE 12:	Classes begin
AUGUST 22:	Graduation

Entered at the Post Office at Athens, Georgia, as Second Class Matter, May 27, 1946, under Act of Congress of August 24, 1912. Issued Monthly by the University except July and August.

SERIAL No. 1021



NORTH AND SOUTH CAMPUS
THE UNIVERSITY OF GEORGIA
 ATHENS, GEORGIA

PREPARED BY THE DEPARTMENT OF PLANT OPERATIONS

100 0 200 500
 SCALE IN FEET

NORTH CAMPUS

Academic Building	1	Harold Hirsch Hall	28
Arboretum	48	Infirmary, Gilbert Memorial	21
Baldwin Hall	33	Joseph E. Brown Dormitory	36
Brown, Joseph E. Dormitory	36	Landscape Architecture Building	24
Candler Hall	12	Language & Literature Building	35
Chapel	6	Law School	28
Chemistry Annex	31	Law School Annex	27
Chi Phi House	9	LeConte Hall	34
Clarke Howell Dormitory	47	Library Annex	17
Commerce-Journalism Building	26	Library, Peabody	17
Demosthenian Hall	5	Library, Iiah Dunlap Little	29
Denmark Hall	25	Little Library (proposed)	29
Education Annex	16	Lucas House	42
Fine Arts Annex	22	Lumpkin House & Annex	24
Fine Arts Building	37	Lustrat House	18
Garage & Shop	3	Meigs Hall	8
Graduate Dormitory	11	Memorial Hall	43
Greenhouse—Botany	32	Military Building	38
		Milledge Hall	41

SOUTH CAMPUS

AAA Building	82	Field House, Athletic	89
Abattoir	53	Food Processing Plant	56
Agricultural Extension Building	81	Forestry Building	76
Alpha Gamma Rho House	91	Greenhouse—Experimental	77
Amphitheater	66	Greenhouse—Horticulture	61
Barrow Hall	60	Griggs Hall	70
Barrow Hall Shop	59	Grounds Shop	90
Baseball Field	88	Hardman Hall	68
Boiler House	58	Hoke Smith Hall	81
Cafeteria	78	Home Management Houses	83
Conner Hall	50	Laundry	87
Dairy Building	75	Library—Lumpkin Hall	49
Dawson Hall	62	Mary Lyndon Hall	64
Dudley Hall	72	Meat Processing Plant	54
Fain Hall	71	Nursery School	84

Milledge Hall Annex	40
Moore College	7
New College	13
Old College	20
Park Hall	35
Peabody Hall	30
Pharmacy Building	13
Phi Kappa Hall	2
Physics Building	7
Pi Kappa Alpha House	10
Reed House	19
Residences	15
Sanford Stadium	46
Sigma Pi House	23
Stegeman Hall	45
Strahan House	27
Terrell Hall	4
Track	44
Woodruff Hall	39

Physical Education Building	67
Plant Pathology Building	55
Plumber's Shop	85
Post Office	79
Poultry Building	80
Rutherford Hall	63
Sigma Nu House	52
Snelling Hall	78
Soule Hall	65
University Store	79
Vanatter House	91
Veterans' Temporary Dormitories	86
Veterans' Temporary Housing	69
Veterinary School	92
Veterinary School (Temporary)	51
Warehouse	67

CONTENTS

	PAGE
CALENDAR, 1951-1952	3
MAP OF CAMPUS	4
BOARD OF REGENTS	8
ADMINISTRATIVE OFFICERS	
General	9
Educational	10
FACULTY	11
LIBRARY STAFF	39
GRADUATE ASSISTANTS AND FELLOWS	39
GENERAL INFORMATION	
History	42
Atlanta Division	43
Grounds and Buildings	43
Libraries	44
Laboratories	45
ADMISSION TO COLLEGES AND SCHOOLS	
By Certificate	46
By Examination	48
As Special Students	48
As Irregular Students	48
With Advanced Standing	49
Exemptions for Transfer Students	50
Graduate and Professional Schools	50
Registration	50
Freshman Registration	51
FIELDS OF INSTRUCTIONAL WORK	
Degrees Offered	52
Armed Services	52
Programs for Veterans	55
ACADEMIC REGULATIONS	
Units of Credit	55
Grading System	55
Classification of Students	56
Work Load	57
Requirements for Degrees	58
Miscellaneous Regulations	59
Probation and Dismissal	61
HONORS AND PRIZES	62
STUDENT LIFE AND ACTIVITIES	
Student Counseling	68
Student Health Service	69

CONTENTS

	PAGE
HOUSING OF STUDENTS	
University Residence and Dining Halls	71
FEES AND EXPENSES	
Fees Payable on Registration	75
Time and Method of Payment	77
Special Fees and Charges	77
Fee Refunds	78
Summary of Expenses	78
FINANCIAL AID FOR STUDENTS	
Loan Funds	79
Student Employment	83
Placement of Graduates	83
DIVISION OF GENERAL EXTENSION	84
OTHER UNIVERSITY ACTIVITIES	
Short Courses, Conferences, Institutes	86
The University of Georgia Press	87
Athletic Association	88
Alumni Society	88
The University Foundation	88
M. G. Michael Award for Research	89
Arthur Lucas Memorial Fund	89
THE GRADUATE SCHOOL	90
Master's Degrees	91
Doctor of Philosophy	96
Doctor of Education	98
Fellowships, Assistantships, and Scholarships	99
Research Program at the Oak Ridge Institute of Nuclear Studies	101
THE FRANKLIN COLLEGE OF ARTS AND SCIENCES	103
THE SCHOOL OF LAW	183
THE SCHOOL OF PHARMACY	200
THE COLLEGE OF AGRICULTURE	212
THE GEORGE FOSTER PEABODY SCHOOL OF FORESTRY	266
THE PEABODY COLLEGE OF EDUCATION	276
THE COLLEGE OF BUSINESS ADMINISTRATION	311
THE HENRY W. GRADY SCHOOL OF JOURNALISM	334
THE SCHOOL OF HOME ECONOMICS	348
THE SCHOOL OF VETERINARY MEDICINE	364
DEGREES CONFERRED	376
INDEX	398

BOARD OF REGENTS

UNIVERSITY SYSTEM OF GEORGIA

20 Ivy Street, S. E., Atlanta

MRS. WILLIAM T. HEALEY, Atlanta <i>State-at-Large</i>	January 18, 1950-January 1, 1953
JOHN J. McDONOUGH, Rome <i>State-at-Large</i>	January 1, 1950-January 1, 1957
FRANK M. SPRATLIN, Atlanta <i>State-at-Large</i>	January 1, 1946-January 1, 1953
HUGHES SPALDING, Atlanta <i>State-at-Large</i>	January 10, 1949-January 1, 1956
CAREY WILLIAMS, Greensboro <i>State-at-Large</i>	January 10, 1949-January 1, 1955
JAMES PETERSON, Soperton <i>First Congressional District</i>	January 10, 1949-January 1, 1955
H. L. WINGATE, Pelham <i>Second Congressional District</i>	January 1, 1947-January 1, 1954
CASON J. CALLAWAY, Hamilton <i>Third Congressional District</i>	January 1, 1951-January 1, 1958
ROBERT O. ARNOLD, Covington <i>Fourth Congressional District</i>	January 10, 1949-January 1, 1956
RUTHERFORD L. ELLIS, Atlanta <i>Fifth Congressional District</i>	January 1, 1947-January 1, 1954
CHARLES J. BLOCH, Macon <i>Sixth Congressional District</i>	January 7, 1950-January 1, 1957
ROY N. EMMET, Cedartown <i>Seventh Congressional District</i>	January 1, 1945-January 1, 1952
FRANCIS STUBBS, SR., Douglas <i>Eighth Congressional District</i>	January 12, 1950-January 1, 1957
SANDY BEAVER, Gainesville <i>Ninth Congressional District</i>	January 1, 1945-January 1, 1952
ROY V. HARRIS, Augusta <i>Tenth Congressional District</i>	January 1, 1951-January 1, 1958

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*JOHN E. SIMS, *Assistant to the Chancellor*
L. R. SIEBERT, *Executive Secretary*
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JOHN DAVID STOREY, *Director of Men's Housing*
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**Died June 28, 1950.

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GENERAL INFORMATION

THE UNIVERSITY

HISTORY

The University of Georgia was incorporated by an Act of the General Assembly on January 27, 1785. In the preceding year the General Assembly had set aside 40,000 acres of land to endow a college or seminary of learning. Georgia was the first state to provide for the establishment of a state-supported university.

The first meeting of the Board of Trustees was held in Augusta on February 13, 1786. At this meeting the Trustees selected Abraham Baldwin as president of the University. Baldwin, a native of Connecticut and a graduate of Yale University, had come to Georgia in 1784. It was he who drafted the charter adopted by the General Assembly.

The University was not actually established until 1801. In that year a committee of the Board of Trustees selected a site for the new institution. John Milledge, later a governor of the state, purchased the site chosen—a tract of 633 acres on the banks of the Oconee River in Northeast Georgia—and gave it to the Board of Trustees. In the fall of 1801 Josiah Meigs was named president of the University and work was begun on the first building. This building, originally called Franklin College in honor of Benjamin Franklin, is still standing and is now known as Old College. The University opened its doors to students in 1801 and graduated its first class in 1804.

During the early part of the nineteenth century the curriculum of the University of Georgia—or of Franklin College as it was then frequently called—embraced only courses in traditional classical studies. In 1843 the scope of the work of the institution was broadened by the offering of courses in law. The activities of the University were broadened still further in 1872 when the institution was designated to receive Federal funds provided for instruction in agriculture and the mechanical arts.

After the turn of the century the activities of the University expanded rapidly to meet the demands for various types of professional and technical training. The teaching and research work of the University is now carried on by eleven colleges and schools and by two divisions that are integral parts of the University. These colleges and schools and the dates of their establishment as separate administrative units are as follows: College of Arts and Sciences, 1801; School of Law, 1859; School of Pharmacy, 1903; College of Agriculture, 1906; School of Forestry, 1906; College of Education, 1908; Graduate School, 1910; College of Business Administration, 1912; School of Journalism, 1915; School of Home Economics, 1933; School of Veterinary Medicine, 1946. The Atlanta Division and the Division of General Extension were incorporated into the University July 1, 1947.

In 1931 the General Assembly of Georgia placed all publicly supported schools and colleges, including the University of Georgia, under the jurisdiction of a single board. The organization set up by the Act of 1931 is known

as the University System of Georgia and the governing board of the System is called the Board of Regents. The executive officer of the Board of Regents, known as the Chancellor, exercises a general supervisory control over all institutions of the University System. Each one of the institutions comprising the University System has its own executive officers and faculty.

ATLANTA DIVISION

By action of the Board of Regents the former University System of Georgia Center in Atlanta was integrated with the University on July 1, 1947. This Center had operated as a separate unit in the University System since 1932. The courses are scheduled for hours that will accommodate residents of the Atlanta metropolitan area who are employed full or part-time. The program is planned to serve four purposes: (1) a two-year junior college curriculum with residence credit; (2) a four-year curriculum leading to the degree of Bachelor of Business Administration; (3) extension courses to enable a student to complete the equivalent of a third year of work; and (4) extension courses to meet the needs of adults for professional or cultural improvement.

Admission requirements, degree requirements, fees, and general policies are the same for both the Atlanta Division and the University in Athens. Course offerings and general information concerning the Atlanta Division are contained in the bulletin published by that Division. Communications regarding the courses or admission should be addressed to the Atlanta Division, University of Georgia, 24 Ivy Street, S. E.

GROUNDS AND BUILDINGS

The first buildings of the University were constructed in the primeval forest of North Georgia, far distant from any town of consequence. About the University community the town of Athens grew up. Although Athens is now one of the larger and more important cities of the state, it retains much of the beauty and charm of the Old South.

The North Campus of the University lies in the very heart of Athens. On this campus are located buildings that house the College of Arts and Sciences, the School of Law, the School of Pharmacy, the College of Education, the College of Business Administration, and the School of Journalism. Here also are a dining hall and five dormitories for men students. Thirty-two principal buildings are located on this campus. Among these buildings are Old College (1801), New College (1832), Demosthenian Hall (1824), the University Chapel (1832), and Phi Kappa Hall (1834).

Surrounding the Landscape Architecture Building is the Ladies' Garden Club Founders Memorial Garden, consisting of a series of formal and naturalistic developments.

On the South Campus, which is separated from the North Campus by a wooded ravine, are situated the buildings that house the College of Agriculture, the School of Forestry, the School of Home Economics, and the School of Veterinary Medicine. One portion of this campus is set aside for

buildings that are used by junior and senior women students. There are twenty-two major buildings on the South Campus.

Dormitories and classroom buildings for freshman and sophomore women are located on a campus (Coordinate Campus) that lies on the west side of Athens about two miles from the North Campus of the University. This campus, which was the home of the old Georgia State Teachers' College, has ten principal buildings.

The University also utilizes as a dormitory for junior and senior women the historic antebellum structure once used by the Lucy Cobb Institute.

The campuses of the University and the adjacent lands used by the College of Agriculture and the School of Forestry embrace approximately 3,500 acres.

LIBRARIES

On May 31, 1951 the Libraries of the University contained 269,029 catalogued volumes besides many uncatalogued manuscripts, maps, and pamphlets. Material is being constantly added in the support of current teaching and research. During recent years grants from educational foundations and special allocations of funds have contributed to the general strengthening of the collections and to the expansion of resources for graduate study.

The collections of particular value are the famous DeRenne Library of Georgia and southern historical material, containing the original Constitution of the Confederate States; the Moore collection of southern history; and some early Georgia colonial manuscripts which were once the property of the Earl of Egmont, first president of the Trustees of the Georgia Colony.

The University Libraries serve as a depository for publications of the United States government and maps issued by the Army Map Service. The document collection has been augmented by acquisition of many publications of the states and by the publications of the League of Nations and of the United Nations.

Current subscriptions are maintained for more than 2,100 periodicals and newspapers. Many of the publications of the important universities and scholarly societies are also received.

In addition to the facilities of the General Library, special services are provided for the Colleges of Agriculture and Business Administration, the Schools of Forestry, Home Economics, Law, and Veterinary Medicine, and the Division of Fine Arts. The Alexander C. King Law Library is located on the second floor of Hirsch Hall and contains approximately 28,000 well-selected volumes. The branch on South Campus houses some 28,000 volumes, and serves the various teaching departments on that campus.

The Business Administration Library is housed in the Commerce-Journalism building and serves the students and faculty of the College of Business Administration. A specialized collection is maintained for the use of the Division of Fine Arts. The library on Coordinate Campus contains a collection of books fitted especially to the needs of that campus.

The Schools of Journalism and Pharmacy, the Division of Biological Sciences, and the Department of Chemistry have collections of books and journals for use by their faculties and graduate students. A map collection is housed in the Department of Geography and Geology.

The resources of all branches are catalogued in the General Library and the resources of all units are available on equal terms to the students and faculties of all colleges and schools. Located in the General Library is a union catalogue of all books in the major libraries of Atlanta. Inter-library loan services are possible with these libraries as well as with many others throughout the country.

Rules and regulations governing the use of books are designed to achieve the greatest usefulness of the collections to the university community. The stacks are open to all members of the faculty and to a limited number of students engaged in advanced work. Most books, except reference works, periodicals, and material used in class assignments, are lent for two weeks.

Books and pamphlets which are used as collateral reading are located in the Reserve Library, the South Campus Branch, the Coordinate Campus Library, and the Business Administration Library. These titles are usually restricted to use in the buildings and to overnight loans in order that all students may have ample opportunity to use them.

The main library is open from 8:00 A. M. to 9:45 P. M. Monday through Friday, and from 8:00 A. M. to 6:00 P. M. on Saturday. The hours of the Reserve Book Room are 7:45 A. M. to 9:45 P. M. Monday through Friday, 7:45 A. M. to 6:00 P. M. on Saturday, and 2:00 P. M. to 9:00 P. M. on Sunday. While the hours of the branch libraries vary to meet the particular needs of the clientele, they are open approximately the same total time, adequately providing for examination and use of material not available for use outside the building.

LABORATORIES

The Departments of Bacteriology, Botany, Chemistry, Physics, Plant Pathology, Psychology, and Zoology have laboratories that are well equipped for instruction and original research. There are several private laboratories for the use of professors and advanced graduate students. The School of Pharmacy, the College of Agriculture, the School of Forestry, the School of Home Economics, and the School of Veterinary Medicine have extensive laboratory facilities for the use of their students and faculties in their work in the fields of applied science. The College of Business Administration has recently acquired many business machines of the latest type for use in courses in accounting and business procedures. The School of Journalism maintains a press room and radio studio as a means of offering practical training to its students.

THE COLLEGE YEAR

The college year is divided into four quarters of approximately eleven weeks each. The fall quarter begins the latter part of September and ends at the Christmas holidays. The winter quarter begins during the first week in January and extends to the middle of March. The spring quarter

begins in March and ends in the early part of June. The summer quarter begins in June and closes in the latter part of August. The exact dates on which quarters begin and end will be found in the University Calendar.

New courses are begun each quarter. It is possible, therefore, for students to enter the University at the beginning of any quarter.

Degrees are conferred at the close of the spring quarter in June and at the close of the summer quarter in August. Students completing their work in December or March will, on their request, be given a certificate to the effect that all degree requirements have been satisfied. Such students receive their diplomas in June following the completion of their work.

ADMISSION TO COLLEGES AND SCHOOLS OF THE UNIVERSITY

Men and women who are at least sixteen years of age and of good moral character are eligible to apply for admission to the undergraduate schools and colleges of the University. Admission may be obtained in any one of four ways:

1. By presenting a certificate of graduation from an accredited high school.
2. By passing entrance examinations, provided the applicant has not been in an accredited high school the previous year.
3. By qualifying as an adult special student.
4. By submitting evidence of studies successfully pursued at another college or university. The University of Georgia accepts only those students who can furnish an honorable dismissal from the college previously attended.

Students who plan to enter the University on the basis of high school or college transcripts should ask that official credentials be sent directly from the institution previously attended to the Director of Admissions at the University soon after the close of the school year in June. The Director of Admissions will communicate with the applicant regarding his admission. If the credentials are not received until the week before the opening of the University, it may not be possible for the Director of Admissions to notify the applicant of his status before his arrival on the campus.

Although students may enter at the beginning of any one of the four quarters of the academic year, they will find it to their advantage to enter in September.

BY CERTIFICATE

To be admitted by certificate an applicant must be a graduate of an accredited secondary school. The certificate should be made on an official blank that is supplied by the University and it should be signed by the superintendent or principal. If the applicant is a graduate of a four-year high school, he must show that he has completed at least fifteen units of acceptable secondary school work. If the applicant is a graduate of a three-year senior high school, he must present not less than fifteen units

and must show that at least twelve of those units of work were taken in the senior high school and not more than three were completed in the junior high school¹.

A unit course of study in secondary school is a course covering an academic year and including not less than the equivalent of 120 class periods of sixty minutes each. Two hours of work requiring little or no preparation outside the class are considered as equivalent to one hour of prepared classroom work.

The fifteen units of secondary school work that an applicant presents for admission to the University must include the following:

- | | |
|--|---------|
| 1. English ² _____ | 3 units |
| 2. Social Studies (history, civics, economics, sociology) _____ | 2 units |
| 3. Mathematics (one unit must be algebra) ³ _____ | 2 units |
| 4. Science (biological or physical) _____ | 1 unit |
| 5. Four units from English, social studies, mathematics, science, or foreign language ⁴ _____ | 4 units |
| 6. Three units that may be selected from any subjects which are accepted by an accredited high school toward its diploma and which meet standards of accrediting agencies ⁵ _____ | 3 units |

Certificates will not be accepted for less than one year's attendance in the school issuing the certificate. Fractional credits of a value of less than one-half unit will not be accepted. Not less than one unit of work will be accepted in a foreign language.

For purposes of admission of students by certificate, the University recognizes the following classes of schools as being fully accredited:

1. Schools accredited by the High School Commission of Georgia.
2. Schools accredited by the Southern Association of Colleges and Secondary Schools.
3. Schools accredited by other recognized accrediting agencies or by other state or regional associations of colleges and secondary schools.

¹ The transcript of credits certified by the senior high school must show any credit accepted from the junior high school.

² English—Any student whose high school preparation in English Composition is inadequate may be required to take a non-credit course.

³ Mathematics—It is recommended that the units in mathematics include one in plane geometry. For those students who expect to become candidates for the degree of Bachelor of Science, Bachelor of Science in Chemistry, or Bachelor of Science in Agricultural Engineering, one unit of plane geometry is essential. Students who expect to take Agricultural Engineering must offer three units of mathematics, consisting of algebra or trigonometry, or both, 2 units, and plane geometry, 1 unit. Solid geometry also is strongly recommended.

⁴ Foreign Language—Although foreign language is not definitely required for admission, it is advisable for a student to present at least two units of a foreign language if he expects to become a candidate for a degree in the College of Arts and Sciences, the School of Law, the School of Pharmacy, the School of Journalism, or if he intends to register for the pre-medical course. If a student plans to become a candidate for the Bachelor of Arts degree, he should present at least two units of Latin. A student who plans to register for the combined curriculum in science and medicine leading to the B.S. and M.D. degrees will find it difficult to meet the requirements in one year of residence unless he submits two units of foreign language from high school.

One unit in a foreign language taken in high school cannot be credited towards the combined high school and college requirements for any degree unless it is followed in college by at least one course in the same language. College credit will not be given for a language course previously completed in high school.

⁵ The University recognizes the obligations of high schools to serve the needs of all their students. It believes, therefore, that high schools should offer courses in such fields as art, commerce, home economics, industrial arts, and music. The University accepts these courses as a partial satisfaction of its admission requirements because it regards them as studies that tend to prepare students for college work.

The University reserves the right to reject any applicant whose low record indicates that he is not adequately prepared to do college work even though he may meet the entrance requirements set forth above.

BY EXAMINATION

Applicants for admission who do not present acceptable certificates from secondary schools may be admitted to the University upon passing entrance examinations in the number and kinds of units as specified in the preceding section. It is the general policy of the University, however, not to admit to entrance examinations applicants who have been in an accredited high school the previous year.

Examinations are held at the University and may be taken at anytime. It is preferable for prospective entrants to present themselves for examination in June.

These admission examinations are also open to graduates of accredited high schools who may be deficient in certain subjects and who, therefore, are unable to take full advantage of the certificate plan of admission.

A student who plans to take the entrance examinations should send to the Director of Admissions a statement of his academic training and experience. The Director will notify the applicant of the exact date of the examinations and of the scope and character of the examination that he must take.

AS SPECIAL STUDENTS

Persons over twenty-one years of age may be admitted as special students in the undergraduate colleges of the University, provided they secure the recommendation of the instructor whose work they wish to take and the approval of the dean of the college concerned. They must give evidence that they possess the requisite knowledge and ability to pursue profitably their chosen subjects and they must meet any special requirements that may be prescribed by the college in which they wish to enroll.

A person registered as a special student in one college and desiring to take a course in another college of the University must obtain the approval of the dean of the latter college.

A special student is not eligible to take part in student extracurricular activities or to be initiated into a fraternity or sorority.

No one may enroll as a special student in any school or college of the University for more than two years. Before beginning his third year, a student admitted on an adult basis must have fully satisfied all entrance requirements. When all entrance requirements have been thus met, a student may continue work in the University, will receive regular classification, and may be accepted as a candidate for a degree.

IRREGULAR STUDENTS

The policy of the University is not to allow students who can meet the entrance requirements (especially those under 21 years of age) to take

irregular programs of work. In particular the University does not offer two-year terminal programs in vocational or professional work; all curricula are organized on a 12- or 13-quarter basis except in graduate programs, law, and nursing education. However, the first six quarters of all undergraduate curricula are designed, as far as practicable, to give the student who drops out after that time an educational program of value.

ADMISSION WITH ADVANCED STANDING

Students from accredited colleges and universities who have pursued college courses equivalent to those of the University of Georgia and who have made satisfactory records and been granted honorable dismissal from their former institutions may be admitted to the University. Former students of such institutions cannot be received as freshmen on the basis of their high school records.

Applicants for admission who have had any work in another institution, regardless of whether or not they wish credit for it, must submit complete credentials of both their high school and college work to the Director of Admissions.

The amount of credit that the University will allow for work done in another institution within a given period of time will not exceed the normal amount of credit that could have been earned at the University during that time. A maximum of 96 academic quarter hours from a junior college may be applied toward a degree.

At least ninety per cent of the hours earned must carry grades above the lowest passing grade at that institution.

Since the University requires that at least the work of the senior year be taken in residence, students may not receive credit toward a degree for more than three years of work in another institution.

A student who has been dropped from another institution because of poor scholarship or for disciplinary reasons may not enter the University the following quarter. Such student will not be admitted to the University until he is eligible to return to the institution from which he was dismissed and has been removed from probation.

Credit for work done outside the University is given only when the work has been done at institutions approved by the Director of Admissions and the Committee on Admissions. Such institutions are divided by the committee into two groups: (1) institutions approved for credit on transcript of record; (2) institutions approved for credit based on the validation of the transcript record by formal examinations.

Correspondence with reference to advanced standing should be addressed to the Director of Admissions or to the dean of the college or school in which the prospective student wishes to register.

EXEMPTIONS FROM DEGREE REQUIREMENTS FOR TRANSFER STUDENTS

The first two years of a number of University curricula include general courses: History 110 x-y, History of Western Civilization; English 22 x-y, Survey of European Literature; Mathematics 101 x-y, Algebra and Trigonometry; Physical Science 1-2, Survey of Elementary Astronomy, Physics, Chemistry, and Geology; and Human Biology 1-2.

Students who transfer with less than junior standing and without credit for these general courses will be required to take them here if they are requirements for the degree for which they are working, but if they have credit for courses of equal value in the same fields they may be exempted from the courses.

In the case of students who transfer with junior standing from standard colleges without these general courses, provisions are made for substitutions of courses in the same fields.

Students who transfer to the University with junior standing are exempt from the requirement of Military Science 1-2 or Air Science 5-6, and Physical Education 1-2 (for men and women).

The junior-senior courses are arranged so that a student who has completed the freshman and sophomore years at a standard institution with satisfactory grades can complete the degree requirements, for all except the more technical degrees, in six quarters.

In some degrees certain modifications are made in required courses for transfer students. For these modifications see Degree Requirements.

TO THE GRADUATE AND PROFESSIONAL SCHOOLS

The foregoing regulations regarding admission of students are applicable to all schools and colleges of the University. Additional regulations apply to the Graduate School, the School of Law, and the School of Veterinary Medicine. The admission requirements of these schools are set forth in the sections of this catalogue devoted to them.

REGISTRATION AND PENALTIES FOR LATE REGISTRATION

A student who fails to register on the days set aside for that purpose will be subject to the following penalties: For the first day beyond the scheduled dates, \$5 and for each succeeding day up to and including the fourth day, \$2; or a total of \$11.

No student will be admitted after the expiration of the fourth day beyond the scheduled registration days.

An applicant for admission whose credentials have been passed upon favorably by the Director of Admissions should present himself at the Registrar's office. The applicant will receive from the Registrar a statement showing the procedure for registration. A student will not be permitted to attend classes in a course for which he is not registered.

Armed Services. All training in this department is conducted in accordance with directions and programs promulgated by the Department of the Army and the Department of the Air Force. Under the post-war program, the Commanding General, Army Ground Forces, through appropriate Army Commanders, and the Commanding General, Continental Air Command, through appropriate Air Force Commanders, are charged with necessary action to carry out Department of the Army and Department of the Air Force policies as pertain to their respective ROTC units.

The staff of the Department of the Armed Services consists of the Professor of Military Science and Tactics, Professor of Air Science and Tactics, other assigned officers of the Army and Department of the Air Force, and non-commissioned officers and airmen who perform administrative, maintenance, and assistant instructor duties.

The mission of the Senior Division ROTC is to produce junior officers who have the qualities and attributes essential to their progressive and continued development as officers in the Army and Air Force of the United States.

Training is divided into two parts, First and Second Basic Courses and First and Second Advanced Courses. For First Year Basic in the Army Unit, the training is branch immaterial, that is, all the subjects are common to both Infantry and Armor. However, in the Second Basic and Advanced courses a large part of the subjects is peculiar to the branch unit.

All men students who are citizens of the United States and have not reached junior class status and are not exempted for physical or other reasons must take the basic courses in Military or Air Science unless proof is submitted of completion of basic training in one of the armed services and honorable discharge therefrom. In such case the veteran who has had one year or more of active service in World War II in the Army, Navy, Air Force, Marine Corps, or Coast Guard is, if otherwise qualified, eligible to enroll in the advanced course. Once entered, the basic courses, Military Science 1 and 2 or Air Science 5 and 6, must be continued until completed or until standing as a junior is obtained at the end of the school year. Students contracting to pursue the advanced courses must complete such course as a requirement for graduation unless excused by proper authority.

For statements about fees, uniforms and textbooks see pp. 76-77.

SUBSISTENCE ALLOWANCE

Students contracting to pursue the advanced courses are paid a monthly monetary allowance in lieu of subsistence at a daily rate equal to the value of the commuted ration, which for the fiscal year 1951 is 90c per day.

SUMMER CAMP

Students contracting to pursue the advanced courses are required to attend ROTC summer camp, normally between the two academic years of the advanced courses. Students attending this camp are messed and quartered, paid at the rate of a soldier or airman of the 1st grade, and given a travel allowance of 5c per mile from institution to camp and return.

ARMY COURSE

1 a-b-c. **MILITARY SCIENCE AND TACTICS.** First year basic course in Armor and Infantry consists of three hours of classwork and two hours of drill and outdoor instructions per week. The course includes leadership, drill, and exercise of command; military policy of the United States National Defense Act, and ROTC; evolution of warfare; individual weapons and marksmanship; military problems of the United States; military organization; maps and aerial photograph; and first aid and hygiene.

2 a-b-c. **MILITARY SCIENCE AND TACTICS.** Second year basic course in Armor and Infantry consists of three hours of classroom work and two hours drill and outdoor instruction per week. The course includes leadership, drill, and exercise of command; and tactics and techniques as pertains to each particular branch.

350 a-b-c. **MILITARY SCIENCE AND TACTICS.** The first year advanced course in Armor and Infantry consists of four hours classroom work and two hours drill and outdoor instruction per week. The course includes leadership, drill and exercise of command; and tactics and techniques as pertain to each particular branch.

351 a-b-c. **MILITARY SCIENCE AND TACTICS.** The second year advanced course in Armor and Infantry consists of four hours classroom work and two hours drill and outdoor instruction per week. The courses include leadership, drill and exercise of command; military administration; geographical foundations of National Power; military teaching methods; military law and boards; psychological warfare; and tactics and techniques as pertain to each particular branch.

AIR FORCE COURSE

5 a-b-c. **AIR SCIENCE AND TACTICS.** First year basic course in Air Science consists of three hours of classroom work and two hours of drill and outdoor instruction per week. The course includes military organization; military policy, national defense act and Air ROTC; evolution of warfare; maps and aerial photography; military psychology and personnel management; first aid and hygiene; geographical foundations of national powers; military problems of the United States and mobilization and demobilization.

6 a-b-c. **AIR SCIENCE AND TACTICS.** Second year basic course in Air Science consists of three hours of classroom work and two hours of drill and outdoor instruction per week. The course includes aerodynamics and propulsion; weather and navigation; applied air power; meteorology.

355 a-b-c. **AIR SCIENCE AND TACTICS.** First year advanced course in Air Science consists of four hours of classroom work and two hours of drill and outdoor instruction per week. Logistics and air operations are common subjects; then the course is broken down into comptrollership for students in the school of Business Administration and consists of organization of USAF Air Comptroller; office of statistical services; reports control system; statistical methods; personnel reporting and aircraft and aircraft maintenance reporting. Students in other schools and colleges will pursue Air

Force Administration consisting of individual records; non-appropriated funds; supply; and transportation.

356 a-b-c. AIR SCIENCE AND TACTICS. Second year advanced course in Air Science consists of four hours of classroom work and two hours of drill and outdoor instruction per week. Military law and boards; career development; military administration; military teaching methods and Air Force management are common subjects; then a continuance of Comptrollership and Air Force Administration.

PROGRAMS FOR VETERANS

In May, 1944, the University established a Veterans Division, the particular responsibility of which is the planning for and supervision of special needs for former service men and women in the University. The United States Congress has passed two Acts under which veterans may apply for compensation to attend an educational institution, the Serviceman's Readjustment Act of 1944, Title II, Public Law 346, and Public Law 16. Public Law 16 provides for disabled veterans and 346 (G. I. Bill of Rights) provides for all other service men and women who were in the armed forces more than ninety days. Veterans applying under Public Law 346 should secure and fill out Rehabilitation Form 1950 and forward it to the Veterans Administration so that they may secure a Certificate of Eligibility and Entitlement which will admit them to college training.

The University has provided a Director to assist veterans in securing admission to the University of Georgia and in counseling with them about personal matters and problems. Many counselors connected with the schools and colleges assist the Director of the Veterans Division in working out programs of education to fit the needs of the applicants.

On the campus is located a Veterans Guidance Center, a joint enterprise of the Federal government and the University. Occupational tests and guidance are afforded all students enrolled under Public Law 346 after they have secured a Certificate of Eligibility and Entitlement. All students under Public Law 16 are required to take this counseling service.

ACADEMIC REGULATIONS

UNITS OF CREDIT

The unit of credit is the quarter hour. A quarter hour represents one hour of class work per week for one quarter or its equivalent in other forms of instruction. Two or sometimes three hours of laboratory work are considered as the equivalent of one hour of class work. The majority of the courses offered in the University meet five times per week for one quarter; such courses carry a credit of five quarter hours.

GRADING SYSTEM

Quarter grades are reported by alphabetical letter only, although they are commonly based on averages of numerical grades given on daily work and final examinations. The scale of letter grades is as follows:

A+	Exceptional
A	Excellent
B+	Very Good
B	Good
C+	Average
C	Fair
D+	Poor
D	Very Poor
E	Condition
F	Failure. No credit unless course is repeated.
I	Incomplete. This grade indicates that a student although doing satisfactory work was, for some reason beyond his control, unable to complete the course.
W	This grade indicates that the student was permitted to withdraw from the course and that no grade was assigned.
WF	This grade indicates that the student was permitted to withdraw from the course while doing unsatisfactory work. The dropping of a course under these circumstances is equivalent to a failure.

CHANGES IN GRADES

A grade in a course reported by the instructor to the Registrar and recorded cannot be changed except in the following circumstances:

E may be changed to D if so reported by the instructor within twelve months.

I may be changed to any grade if so reported by the instructor within twelve months.

Any grade will be changed upon a written statement by the instructor that the grade reported was a factual error

A senior in line for graduation who makes a grade of F or D in his senior year in a course numbered 200 or above necessary for his degree will have the privilege of one re-examination, provided there is no opportunity to repeat the course. Grades in not more than two courses may be thus changed. Permits for a re-examination should be obtained from the Registrar's Office.

CLASSIFICATION OF STUDENTS

In the undergraduate schools and colleges of the University a student will be classified as a freshman, sophomore, junior, or senior, according to the number of quarter academic hours of work he has completed with an average grade of C or better. A student who has completed less than 37 hours of the number of hours required for graduation will be classified as a freshman. A student will be entitled to register as a sophomore when he has completed at least 37 hours; as a junior when he has completed at least 84 hours; and as a senior when he has completed at least 131 hours.

The classification under which a student registers at the beginning of the academic year will continue throughout that year.

COURSE NUMBERS

Courses numbered from 1 to 199 are designed for freshman and sophomore students; those numbered from 200 to 399 are offered primarily for junior and senior students; courses taken by juniors and seniors along with graduate students carry the numbers 400 to 599 for undergraduates and 600 to 799 for graduate students. Courses numbered 800 to 999 are offered for graduate students only.

With the approval of the dean of his college or school, a student may include in his sophomore program as much as one-third of his work in courses falling within the junior-senior group; with the same approval a student may include in his junior-senior program as much as one-third of his work in courses falling within the freshman-sophomore group.

NORMAL LOAD OF WORK

The normal load of work for freshman and sophomore students is 15 hours per quarter, exclusive of Military Science 1-2 or Air Science 5-6, and Physical Education 1-2. The normal load of work for junior and senior students is 15 hours per quarter except where otherwise stated in the published degree requirements.

Variation from the Normal Load of Work

The dean of a school or college may, at his discretion, authorize the following variations from the normal work load:

1. A minimum load of 10 hours.
2. An increase of from 1 to 3 hours: (1) When advanced military science is taken or when difficulty in making a practical schedule or a satisfactory program demands it; (2) students who had an average of B on the work of the three preceding quarters may have this privilege during the succeeding three quarters; (3) students who had an average of B in the preceding quarter may have this privilege the succeeding quarter.
3. A maximum of 21 hours may be permitted: (1) students on the current Dean's List; (2) students not on the Dean's List but who had an average of "A" on the work of the preceding quarter; (3) first year transfer students who received an average grade of "A" on their last year's work in the institution from which they transferred; (4) students having 90 academic hours credit with no grade lower than "C" for the preceding quarter and having no "F," "WF," "E," or unremoved I for the preceding three quarters. (No student with less than 15 hours in residence is eligible.)
4. An increase of 10 hours (distributed over their last three quarters) for seniors who, at the beginning of any quarter, can, with this privilege, graduate in three quarters.

Under no circumstances is any student permitted to receive credit for more than 21 hours per quarter, exclusive of Military Science 1-2, Air Science 5-6, or Physical Education 1-2.

DEGREE REQUIREMENTS

RESIDENCE. The minimum residence requirement for a baccalaureate degree is three quarters, during which time a candidate must earn credits in courses numbered 200 or above of at least 45 hours with an average grade of "C" or better. It is required that at least thirty hours of the last three quarters' work before graduation be taken in residence and be in courses numbered 200 or above. It is also required that at least half the courses constituting a student's major study be taken in residence.

If a student elects to satisfy the requirement for the B.S. degree by substituting the first year's work in the Medical College of Georgia for his last year's work in the University, the residence rule as stated in the preceding paragraph is modified to the extent of reducing from 45 to 30 hours the credits he must earn in courses numbered 200 or above after admission to senior division standing.

For candidates for the B.S. Nursing Education degree, "residence" is interpreted to include the Atlanta Division of the University as well as the Athens Campus.

CREDITS AND GRADES. Each candidate for a degree must secure credit in approved courses totaling at least the number of quarter hours required for a degree by the school or college in which he is registered, exclusive of courses in Military Science 1-2 or Air Science 5-6, and Physical Education 1-2. In securing this credit each candidate must have an average grade of not less than "C" in all grades received, excluding those in basic military science and physical education, and must not have grades below "C" in more than one-fourth of the total number of quarter hours earned.

The College of Arts and Sciences and several other colleges and schools require for graduation 185 quarter hours, exclusive of Military Science 1-2 or Air Science 5-6 and Physical Education 1-2. Some of the schools require a larger number of hours. Under the sections devoted to the several colleges and schools will be found statements of their exact requirements.

CORRESPONDENCE AND EXTENSION WORK. Not more than one-fourth of the work counted toward a degree may consist of courses taken by correspondence or extension.

MILITARY AND AIR SCIENCE. All men students in the freshman and sophomore classes who are citizens of the United States and who are not physically disqualified or otherwise exempted must take the basic courses in military or air science and tactics. The basic courses are Military Science 1-2 and Air Science 5-6.

PHYSICAL EDUCATION. All non-veteran freshman and sophomore men and all freshman and sophomore women are required to complete, with passing grades, Physical Education 1 and 2. Students physically or organically handicapped will be assigned to special Physical Education classes. Students who have finished freshman and sophomore requirements in approved institutions will not be required to take Physical Education 1 and 2.

EXAMINATION ON THE CONSTITUTIONS. Examinations on the Constitution

of the United States and that of the State of Georgia, required of all persons receiving a degree from the University unless exempted by credit in courses dealing with these Constitutions, are given annually on the first Thursday after Washington's birthday and the first Thursday after the Fourth of July, at 3:30 in Room 212 of the Academic Building. A series of lectures to aid students in preparing for these examinations is offered during the two weeks preceding the examination in February. Special examinations for students having failed on or been absent from the regular examinations are offered on the first Thursday in May and the first Thursday in November, and in exceptional cases upon other dates.

SPECIAL REQUIREMENTS. Candidates for degrees from the University must show that they have met all general University requirements with respect to such matters as registration and payment of fees and the special requirements of the colleges or schools in which they have been registered as students.

All candidates for degrees should check with the Registrar and dean of their school or college their program for graduation three quarters prior to the date of graduation. Students who fail to perform this duty will forfeit any equity in the adjustment of errors or omissions made in their programs.

A candidate for a degree, unless excused in writing by the secretary of the faculty, must attend the graduation exercises at which he expects a degree to be conferred upon him.

The University reserves the right to withhold the diploma of a student who has completed all academic requirements if he is guilty of conduct which is morally reprehensible or is of such disorderly nature that could have been disciplined by expulsion.

MISCELLANEOUS REGULATIONS

HIGH SCHOOL SUBJECTS NOT TO BE DUPLICATED. No University credit will be granted for work in mathematics, foreign language, or other courses taken at the University when such work is a repetition of studies already completed in high school.

FORFEITURE OF CREDIT. By registering for a course for which he has already received credit either by work at the University or by transfer of credits from another institution, a student forfeits the previous credit in that course. The student's final grade in the course will be the one made on the repetition.

NO EXTENSION WORK BY RESIDENCE STUDENTS. Extension or correspondence work for University credit may not be taken by a student while registered as a resident student, except in extraordinary cases and when authorized by the dean of the college or school as a part of the student's normal load of work.

CHANGES IN COURSES. Changes in a student's program of courses may be made only with the approval of the dean of the college or school in which the student is registered. Changes will not be permitted unless requested

during the first four days of the quarter. A service fee of \$2 may be assessed for each change, though no charge will be imposed for changes made necessary by University regulations.

DROPPING OF COURSES. A student may not drop a course without the permission of the dean of his college or school.

ADMISSION TO EXAMINATION IN A COURSE TAKEN IN THE UNIVERSITY. No student who has not registered for the course will be admitted to the final examination, and only under extraordinary circumstances will he be admitted to the examination unless he has attended at least 50 per cent of the total class and laboratory exercises held in the course.

SPECIAL COURSE IN READING AND STUDY SKILLS, DESIGNATED PSYCHOLOGY 99. This course is required of all freshmen designated on the basis of Placement Tests. Designated freshmen will not be admitted to second quarter of freshman English until satisfactory completion of this course is reported by the instructor. With the approval of the instructor, students not included on this list, but referred by faculty members, may register for the course. Such students will not exceed one-fourth the size of the class.

CLASS ATTENDANCE. All students are expected to attend regularly the meetings of classes in courses for which they are registered. A student who incurs an excessive number of absences may be placed on probation or dismissed from the University.

ABSENCES FROM CLASSES BEFORE AND AFTER HOLIDAYS. A student who is absent from any class or regular University exercise on the day before or the day after a holiday period and who has no valid excuse for such absence may be required to pay to the University treasurer a fine of \$2 for each of the days on which an absence occurred. Validity of the excuse will be determined by the registrar.

STUDENT CONDUCT. A student is expected to show under all circumstances a proper respect for order, morality, and the rights of others, and such sense of personal honor as is demanded of good citizens.

SOCIAL PROBATION. For any serious or repeated infraction of regulations, a student or group may be placed on social probation which indicates that any further infraction of regulations may cause suspension from the University.

The University reserves the right to exclude at any time students whose conduct is deemed improper or prejudicial to the interests of the University community.

WITHDRAWAL FROM THE UNIVERSITY. No student is permitted to withdraw from the University after registration for a term without notifying the Dean of Men or Dean of Women, who shall notify the Registrar and the student's parents. Veterans receiving allowances under any of the acts of Congress must also notify the Director of the Veterans Division. Refunds will be based on the date of such notification.

A student against whom charges are pending will not be permitted to withdraw from the University until such charges shall have been adjudicated.

In general a student voluntarily withdrawing may return later if scholastically eligible.

REPORTS TO PARENTS. At the close of each quarter reports of students' grades will be mailed to parents or guardians. In the case of freshmen, a report will be made at the end of the first six weeks of the fall quarter.

Reports will also be made to the parent regarding any official action that has the effect of placing a student on probation or of excluding him from the University.

SCHOLASTIC PROBATION AND DISMISSAL

PROBATION. A student who fails to pass in any quarter at least ten hours of work (exclusive of basic military or air science and physical education) shall be placed on scholastic probation. A student remains on scholastic probation until he passes 15 hours¹ of work in one quarter. No student will be credited with the completion of the requirements for graduation while on probation unless he passes every course taken during that quarter.

DISMISSAL. 1. A student who fails to pass five hours¹ of work in any one quarter **MUST** be dismissed from the University.

2. A student on scholastic probation must pass 10 hours¹ of work in one quarter or be dismissed.

3. A student on scholastic probation for three consecutive quarters must be dismissed.

COUNSELING. Every quarter students with poor scholastic records should be advised that unless their record improves markedly in the next quarter they should withdraw from the University. Such students should be warned that they may be dismissed.

DISMISSED STUDENTS READMITTED ON PROBATION. No dismissed student may be readmitted before the expiration of one quarter. As a condition precedent to readmission, the student must go through the testing and advisement procedure provided by the counseling organization under the administration of the Dean of Faculties. Should the counseling officers report that the student is competent to carry on college work, the dean of his college may readmit him. If a dismissed student should be readmitted by the dean of his college or school he shall be on scholastic probation until he has passed fifteen hours¹ work in one quarter.

ADMISSION TO ANOTHER COLLEGE OR SCHOOL. A student dismissed from a college or school may not transfer to another college or school until after the expiration of his period of dismissal, and then only with the consent of the deans of the two colleges or schools involved. The dean of the college to which admission is sought should take the initiative in the matter of transfer by conferring with the dean of the college from which the student was dismissed.

PERMANENT DISMISSAL. If under the operation of these rules a student should be dismissed a second time, the dismissal shall be permanent.

¹Exclusive of basic military or air science and physical education.

ELIGIBILITY FOR STUDENT ACTIVITIES. A student who is on scholarship probation is not eligible for participation in any extra-curricular activity or to represent the University or student body in any official capacity. This includes members or managers of athletic teams, debating teams, glee clubs, dramatic clubs, student publications, campus leaders, officers of the fraternity and sorority council, officers of student government, officers of any other activities, which, in the judgment of the Dean of Men or Dean of Women, should be included. A student who is ineligible because of a conditional grade which placed him on probation may become eligible by removing this conditional grade. Students on conduct probation are ineligible to participate in such activities as those above mentioned.

HONORS

The University strives to promote excellence in scholarship by giving official recognition to those students whose scholastic work is of a superior character. It also recognizes outstanding ability in speaking, writing, and other forms of scholarly activity.

GRADUATION WITH HONORS

The University awards degrees with honors to candidates who achieve specified scholastic records. Not more than 45 quarter hours taken at other institutions may be applied to the degree with honors requirements. Such transferred hours that are used must have a grade of A or A+. The specified scholastic records and honors are: cum laude for an average of 90.0 to 92.9; magna cum laude for an average of 93.0 or better; summa cum laude for a record with all grades A or A+.

HONORS WORK IN SPECIAL SUBJECTS

Beginning with the Fall Quarter of 1948 the College of Arts and Sciences put into effect a system of Honors Work in Special Subjects.

A plan has been worked out under which students who in their first two years have achieved high rank may upon entering the junior class elect to do independent work under major professors of their own choice. When accepted for Honors Work in Special Subjects, students may be relieved of routine requirements such as attendance upon classes and weekly tests. Under expert guidance they have an opportunity to delve far deeper in the subjects of their choice than has been possible in the past. Students who have successfully followed this plan of independent study will be graduated with honors in their special subjects.

Students interested in this matter should confer with either the Dean of the College of Arts and Sciences or the Chairman of the Committee on Honors Courses.

VALEDICTORIAN

In the spring of each year the Registrar prepares a list of the names of the five members of the graduating class who have the highest averages on the work done in the University of Georgia. From this list the members

of the senior class choose a valedictorian. A student is not eligible for this honor unless all of the work of his junior and senior years is taken in residence at the University.

HONOR FRATERNITIES AND SOCIETIES

Several honor fraternities and societies at the University extend recognition to students on the basis of scholarship and good character. There are chapters of Phi Beta Kappa, Sigma Xi, Phi Kappa Phi, and of many college, school, and departmental honor societies. Membership in these societies is highly prized in educational circles.

HONOR LIST

After the close of the college year, an Honor List is made up for all classes on the basis of the work of the year. The first group on this list constitutes the Dean's List and consists of those who have made an average grade of 90 or whose grades place them in the upper five per cent of their class. The second group in the Honor List consists of those whose grades place them in the upper ten per cent of their class but whose names are not included in the Dean's List. In the case of freshmen and sophomores, the Honor List is made on the basis of the total enrollment in all of the schools and colleges of the University.

One day of each year is set aside as an occasion for according special recognition to those students whose names appear on the Honor List and those who have been elected to the Phi Beta Kappa, Sigma Xi, Phi Kappa Phi, or other honorary scholarship societies.

UNDERGRADUATE SCHOLARSHIPS, HONORS, AWARDS AND PRIZES

Unless otherwise specified these scholarships, honors, awards, and prizes are open to both men and women.

AGRICULTURAL ENGINEERING FACULTY AWARD. Each year the faculty of the Department of Agricultural Engineering gives special recognition to those students in the department whose accomplishments have been outstanding. The awards are made on the basis of scholastic attainment, character, and leadership. The names of those selected are engraved on a bronze plaque. Each student selected receives a one-year membership in the American Society of Agricultural Engineering.

ALPHA KAPPA PSI PRIZE. The Alpha Kappa Psi national commerce fraternity awards annually a gold pin to that member of the junior class of the College of Business Administration, who, in the opinion of the faculty of the College, has made the best record during the year. The award is based on scholarship and character.

ART STUDENTS' LEAGUE AWARDS. Awards are given for the outstanding works of art shown in the students' exhibition at the end of the school year after the Shorter Awards are given. The art faculty and a committee of Art Students' League members form a jury to select the work.

The University of Georgia Art Students' League gives to a student in the Art Department an award called the Lamar Dodd Award for outstanding work and service. Usually, but not necessarily, this award is given to a senior. The award consists of the student's name being engraved on a cup which remains the property of the Art Department. Students and faculty of the department make the selection.

SHORTER AWARDS. Five purchase prizes of \$20 each are offered by Edward S. Shorter, Columbus, Georgia. These prizes are given to students of the Art Department for work of outstanding merit selected by the faculty of the department. Works receiving these awards will remain the property of the department.

BRYAN PRIZE. The late William Jennings Bryan gave to the University the sum of \$250 and directed that the income of this amount be awarded annually as a prize to that student who writes the best essay on the democratic form of government. Essays are submitted to the Head of the Department of Political Science and are judged by a committee of the faculty of this department.

EDWARD A. BURDETTE MEMORIAL MEDAL. This medal is offered by Mrs. L. G. Daingerfield in memory of her son, Edward A. Burdette. It is awarded to that member of the senior class, who, in the judgment of the faculty of the English Department, has done the best work as a major student in the field of English.

NATHAN BURKAN MEMORIAL COMPETITION. The American Society of Composers, Authors, and Publishers annually offers a cash award of \$100 to that student of the graduating class who submits the best paper on *Copyright Law*. Selection is made by Law faculty.

CHI OMEGA PRIZE. The Mu Beta Chapter of the Chi Omega Society offers a prize of \$25 to the outstanding woman student in sociology, economics, psychology, and political science in rotating order. For the year 1951-1952 the prize will be awarded in sociology. In order to be eligible for this prize, a student must take at least three courses per quarter throughout the year.

JOE BROWN CONNALLY PRIZE. This prize of \$100 was established by his family in memory of Joe Brown Connally. It is awarded annually to that member of the junior class who is most proficient in Georgia history. Selection made by Head of the History Department in consultation with the instructor of the class in Georgia History.

DAIRY PRODUCTS JUDGING AWARD. Trophies and products are given by various commercial companies to encourage interest in the Dairy Products Judging Contest, which is open to all students interested in judging dairy products.

DEBATERS MEDAL. The University awards annually a key to each of the six members of the freshman class who are selected by the Debate Council for membership on the Freshman Debate Team.

DELTA DELTA DELTA WAR SCHOLARSHIP. A fund set up by the local chapter of the Delta Delta Delta Sorority and the national organization to aid a junior or senior woman to continue her studies. Application blanks may

be secured from the Secretary of Scholarship Committee. Recommendations are made to the national sorority by a local committee; final awards are made by National Office of Delta Delta Delta.

DELTA SIGMA PI SCHOLARSHIP KEY. The Delta Sigma Pi national commerce fraternity awards annually a gold key to that member of the senior class of the College of Business Administration, who, in the opinion of the faculty of the College, has made the best record during the year. The award is based on scholarship and character.

THE FELTON FUND. This fund was established by the will of Rebecca Latimore Felton in memory of her children, and is to be used to educate and assist in the education of men students. The fund is administered by the First National Bank of Atlanta.

HARRISON PRIZE. The Harrison Company, law-book publishers of Atlanta, Georgia, offers as a prize to that member of the law graduating class who makes the highest average during his senior year a copy of *Powell's Action for Land*. Selection is made by the Law faculty.

WALTER B. HILL PRIZE IN ETHICS. The late Judge Horace Russell established an annual prize of \$50 that is awarded to the student who writes the best essay on a subject in the field of Ethics assigned by the Professor of Philosophy. Award is made by a committee chosen by the faculty of the Philosophy Department.

PRIZE IN GEORGIA COLONIAL HISTORY. The Athens Town Committee of the Georgia Society of Colonial Dames of America offers annually a prize of \$50 for the best paper on some topic of colonial Georgia history, written by any University student.

JUNIOR ORATOR'S PRIZE. The University awards annually a silver loving cup to that member of the junior class who delivers the best original oration. Sponsored by Demosthenian and Phi Kappa Literary Societies, judged by members of University faculty.

KROGER COMPANY SCHOLARSHIP. Four scholarships of \$200 each are awarded by the Kroger Company to Georgia high school graduates who enter the College of Agriculture and the School of Home Economics the Fall Quarter. Application blanks may be obtained from the Dean of the College of Agriculture and the Dean of the School of Home Economics and must be filed by July 1.

LAWYERS CO-OPERATIVE PUBLISHING COMPANY PRIZE. The Lawyers Co-operative Publishing Company offers as a prize to that member of the class in Legal Bibliography who makes the highest grade a copy of *Ballentine's Law Dictionary*. Selection is made by Law faculty.

ISAAC MEINHARD MEMORIAL AWARD. A fund of one thousand dollars from which the net annual income is used to provide an annual prize for the student who has the highest average grade for all of his law work. Selected by Law faculty.

QUIMBY MELTON-GRIFFIN NEWS PRIZE. A prize of twenty-five dollars given by Quimby Melton, editor and publisher of the *Griffin News*, to the winner

of an essay contest, the subject of the essay and the number of words determined by the donor. A committee of judges is appointed by the Dean of the School of Journalism and Mr. Melton.

HAMILTON MCWHORTER PRIZE. Hamilton McWhorter of the class of 1875 provided for the award annually of a medal to that member of the freshman class of the University having the highest scholastic average on the year's work.

BERT MICHAEL SCHOLARSHIP. The family of the late Bert Michael of the class of 1912 gave to the University a fund of \$1,000. The income of this fund is awarded annually as a prize to that member of the junior class who is selected by a committee of the faculty. In making the award the faculty committee considers scholarship, qualities of character, and also financial need.

MUSIC SCHOLARSHIP. Private donations to the Music Department to provide small scholarships for outstanding students. Correspondence concerning these scholarships should be addressed to Hugh Hodgson, Head of the Music Department.

OMICRON DELTA KAPPA PRIZE. The Omicron Delta Kappa honorary fraternity awards annually a silver loving cup to that male student in the University who makes the highest scholastic average during the academic year. In order to be eligible for this prize, a student must have been in residence at the University for three quarters.

THE AMERICAN FOUNDATION FOR PHARMACEUTICAL EDUCATION offers two scholarships of the value of \$50 each per quarter, or \$200 each per year of four quarters. These scholarships are awarded to men and women in the upper one-third of the graduating class who are in need of financial assistance and who can present proper letters of recommendations. For information on these scholarships, prospective applicants should write the Dean of the School of Pharmacy.

GEORGIA SCHOLASTIC PRESS ASSOCIATION SCHOLARSHIPS. Two scholarships yearly to high school graduates equivalent in value to the matriculation fee. The winners are chosen by the faculty of the School of Journalism through the GSPA upon recommendation of the faculty advisers of the various high school publications of the state. Correspondence concerning these scholarships should be addressed to John E. Drewry, Dean of the School of Journalism.

PURINA MILLS SCHOLARSHIP. The Purina Mills Company of St. Louis gives a scholarship that consists of paying the recipient's expenses for one month of study in the factories and laboratories of the company and a leadership course on Lake Michigan to an outstanding member of the junior class in Animal Husbandry. The staff of the Animal Husbandry Department makes the selection.

REDFEARN PRIZE. Mr. D. H. Redfearn, '09, of the Miami bar offers a prize of \$50 to the law student writing the best article on *Suggested Changes in the Remedial Laws of Georgia*. Selected by Law faculty.

THE NEEL REID MEMORIAL SCHOLARSHIP LOAN FUND. The Peachtree Garden Club of Atlanta in 1947, as a memorial to Neel Reid, established a fund, the income of which is to be awarded to a student in the Department of Landscape Architecture at the end of the freshman year. This gift, the corpus of which is \$7,000, is administered by the University of Georgia Foundation.

MARY ROSENBLATT ART SCHOLARSHIP FUND. Mr. and Mrs. William L. F. Rosenblatt in 1949, as a memorial to their daughter, Mary Lillian Rosenblatt, a member of the Art Staff of the University from 1929 through 1934, established a trust fund with the University of Georgia Foundation. The income is to be used to aid worthy students in the Department of Art. Application should be made with the Head of the Department of Art.

HORACE RUSSELL PRIZE IN PSYCHOLOGY. The late Judge Horace Russell established an annual prize of \$50 that is awarded to the student who writes the best essay on a subject in the field of psychology assigned by the Professor of Psychology.

JESSIE WOODROW SAYRE PRIZE. The Jessie Woodrow Sayre Scholarship Foundation provides \$100 annually to be used as a prize for the student of the College of Arts and Sciences who submits the best paper on World Relations. Papers are submitted to the Head of the Department of Political Science and are judged by a committee of the faculty of the College of Arts and Sciences.

SIGMA DELTA CHI SCHOLARSHIP AWARDS. The Sigma Delta Chi national journalistic fraternity awards annually a certificate and key to the outstanding male senior in journalism. He is selected by a committee composed of the president of the local chapter of Sigma Delta Chi, the faculty adviser of the chapter, and one alumni member.

SIGMA DELTA CHI SCHOLARSHIP AWARDS. The Sigma Delta Chi national journalistic fraternity awards annually certificates of distinction to those graduates of the School of Journalism who stand in the upper ten percent of their class.

SOPHOMORE DECLAMATION PRIZE. The University awards each year a silver loving cup to that member of the sophomore class who is adjudged to be the best declaimer. Sponsored by Demosthenian and Phi Kappa Literary Societies, judged by members of the University faculty.

SPECIAL SCHOLARSHIP AWARDS. From various sources the University has funds available for scholarship grants which may be awarded according to the provisions of the donations. These scholarships range in amounts from tuition and fees to all necessary expenses to attend the University.

SWIFT AND COMPANY SCHOLARSHIP. Swift and Company of Chicago offers a scholarship that consists of paying the recipient's expenses in Chicago for one week of intensive instruction in livestock marketing to the student who writes the best essay on some phase of livestock marketing. This scholarship is administered by the Animal Husbandry Department.

U. D. C. SCHOLARSHIPS. Yearly scholarships, equivalent in value to the matriculation fee. Recipient, who is selected by the Laura Rutherford Chapter of the U. D. C. of Athens, Georgia, must be a lineal descendant

of a Confederate veteran. Correspondence concerning this scholarship should be addressed to the Laura Rutherford Chapter of the U. D. C.

A similar scholarship is awarded a student named by the national organization of the United Daughters of the Confederacy under its rules governing the award. Correspondence concerning this should be addressed to the National Office of the U. D. C.

WATSON SCHOLARSHIP. Colonel J. D. Watson, of Winder, Georgia, has provided scholarships similar in value to the matriculation fee for a number of his nieces, nephews, and other relatives.

XI SIGMA PI PRIZE. The Forestry Club of the University offers a prize of \$10 to that member of the freshman class of the School of Forestry who does the most outstanding work during the year. Selected by a committee from the organization.

For further information concerning any of the above scholarships, write to the Director of Placement and Student Aid.

Fellowships, scholarships, and prizes for graduate students will be found under Graduate School.

STUDENT LIFE AND ACTIVITIES

STUDENT COUNSELING

The University maintains certain counseling and guidance services for all of its students. Each academic dean either personally or through appointed assistants guides each student in his academic problems, especially in arranging schedules, the satisfaction of degree requirements, problems about probation and other problems of an academic character. In addition counseling and guidance services of other sorts are available. The Dean of Men and Dean of Women and their staffs are especially concerned with problems which do not lie entirely in the academic field. Attached to these staffs are counselors to men and women students. The Veterans Guidance Center, sponsored by the University under contract with the Veterans Administration, has elaborate testing and clinical services, designed chiefly for the veterans but also available for certain testing programs and for special cases of any nature referred to it by the other counseling units, whether the student is a veteran or not. The staff of the Psychology Department has been active in the counseling of students. The College of Education has a counseling clinic especially for its students set up as part of its teaching program. The Office of Placement and Student Aid offers financial and vocational guidance service to all students, especially for seniors or those seeking work either on or off the campus.

The University is attempting to maintain close personal relations between the students and the faculty members; and a part of each teacher's duties is personal conferences and the personal guidance of students, whether formal or informal in nature.

STUDENT HEALTH SERVICE

The Department of Student Health was established for the protection and care of the health of students attending the University. In 1940 Judge Price Gilbert gave to the University funds for the erection of a new infirmary. This building is known as Gilbert Memorial Infirmary.

A part of the fees paid by each student goes into a fund for the support of the infirmary. The doctor is in the infirmary from 9 A. M.-1 P. M. and 2-5 P. M. weekdays and until noon on Saturday. The nursing staff is on duty constantly and will be in contact with the doctor at all times. Physical examinations are performed during Fall registration if not already given by home physician and received at Infirmary. Students desiring first aid or who are ill are seen by the doctor or nurse in the order in which they arrive and emergencies are seen at once. Students requiring hospitalization are admitted and treated in the infirmary, except for some contagious diseases and for surgical operations. A charge of \$1.50 per day is made to cover cost of meals and bed linen for patients admitted. Routine X-ray and laboratory facilities are available at the infirmary; more specialized procedures must be referred to the proper department of either of the local hospitals.

The University does not attempt to provide the services of various specialists, dental care, special nursing, or other unusual treatment as a regular part of its health program. When such services become necessary, the University physician (preferably after consultation with the parents of the student involved) refers the case to a local specialist or consultant. The infirmary fee does not cover the cost of such special services. In case of an operation or certain types of contagious diseases the specialist will place the student in one of the two local hospitals, at the expense of the student, or if able to travel the student will be sent to the home physician.

UNIVERSITY LECTURE SERIES

A portion of the fees paid by students is set aside in a special fund to provide financial support for the University Lecture Series. Each year several distinguished speakers and artists are brought to the University. The object of these programs is to offer to the students the advantages of cultural entertainments. Every student during the period of his residence at the University has the opportunity to see and hear some of the most renowned figures in the artistic, literary, and scientific worlds.

ART, DRAMA, AND MUSIC ACTIVITIES

The Art Department presents exhibitions of the work of both old and contemporary artists in a constantly changing series. The Art Students' League sponsors painting and sketching trips, auctions and exhibitions of student work as well as other related art activities which are open to students of the entire University.

The University Theatre of the Department of Drama produces either one or two major productions each quarter. All students of the University are eligible to participate in any phase of these productions.

The Department of Drama, in conjunction with the University Theatre, brings outstanding professional companies to the campus of the University of Georgia during the year.

Music activities include the Men's Glee Club and the Women's Glee Club, the Little Symphony Orchestra, the University Band, and a dance orchestra. The Men's Glee Club makes at least one tour each year.

Occasionally students particularly qualified for the band or orchestra have the opportunity of earning a small amount for their services to these groups. This opportunity is often spoken of as a student activity scholarship but in reality it is part-time work.

Music Appreciation Hour, conducted every Thursday by the head of the Music Department, is designed to teach students to enjoy good music. This hour has been very popular with the students and with the people of Athens.

ATHLETIC PROGRAM

The University appreciates the interests and needs of men and women students in the field of sports activities. To develop the interests and fulfill these needs the University sponsors a program of intercollegiate athletics and intramural sports activities for men and intramural sports activities for women.

The intercollegiate athletic program includes football, basketball, baseball, track, tennis, golf, swimming, cross country, and rifle marksmanship.

The men's intramural sports program includes touch football, basketball, softball, golf, tennis, track, badminton, handball, swimming, horseshoes, volleyball, and bowling.

The women's intramural sports program, sponsored by the Department of Physical Education for Women and the Women's Athletic Association, includes volleyball, swimming, horseshoes, golf, basketball, bowling, table tennis, rifle marksmanship, fencing, badminton, softball, tennis, archery, and others.

FORENSIC ACTIVITIES

True to the traditions of southern oratory and debate, the University offers four debating societies to the students: Demosthenian Literary Society and Phi Kappa Literary Society (for men), Pioneer Club (for women), and Agricultural Club (for agricultural students). Throughout the year intersociety debates and orations maintain unusual interest in the societies.

Apart from the literary societies the University sponsors debating teams open to men and women students. The teams engage the outstanding colleges of the South and of the nation.

STUDENT PUBLICATIONS

Student publications include three of a campus-wide nature, *The Red and Black* (weekly newspaper), *Pandora* (the University year book), and *The Georgia Cracker* (a monthly literary and humor magazine). In addition to

these campus-wide publications there are certain student publications sponsored by the various schools and colleges or by organizations on the campus. Among these are: *Georgia Agriculturist* (monthly magazine in the College of Agriculture), *Cypress Knee* (publication of the School of Forestry), *The Georgia Clover Leaf* (year book of 4-H Clubs), *Georgia Agricultural Engineer* (year book of the Department of Agricultural Engineering), *The Georgia Dairyman* (publication of the Dairy Science Club), and *The Georgia Pharmacist* (quarterly publication in the School of Pharmacy).

STUDENT UNION

The Student Union in Memorial Hall conducts a wide variety of recreational programs and activities. The Union is operated by a director and a board of students. Table tennis and billiard tables are available as well as a large lounge with phonograph and radio. Special musical and film programs and student socials are offered.

RELIGIOUS ORGANIZATIONS

Two major units of student religious activity, the Student Christian Association and the Coordinate Campus U.G.R.A., function under the University of Georgia Religious Association. The University recognizes that religious influences are essential to the well-rounded development of the individual. The Association cooperates with student pastors and workers maintained by the Athens churches, and throughout the year sponsors special programs for and by the students.

FRATERNITIES AND SORORITIES

Social organizations on the campus include men's Greek letter fraternities and women's Greek letter sororities. These organizations, as well as many clubs and societies of a social nature, provide the campus with many social functions during the year.

HOUSING OF STUDENTS

Residence halls situated on the University campus accommodate approximately twenty-two hundred students. Additional housing facilities at fraternity and sorority houses, religious student centers, YMCA and YWCA are also available to students. Private homes and boarding houses list available space for single and married students with the University Housing Offices. The University does not reserve this housing since arrangements for it are made by personal interview between home owner and the individual applicant. Communications on housing should be addressed to Director of Men's Housing or Director of Women's Housing.

RESIDENCE HALLS FOR MEN

A reservation fee of \$15.00 is required in advance for the Fall Quarter to assure space in the following men's dormitories: Fain, Griggs, Dudley, Candler, Joe Brown, Milledge, Clark Howell, and Law. No reservation fee is re-

quired for Wilkins Hall. A reservation fee is not required the Winter, Spring, or Summer Quarter on any dormitory.

First, file application for room with the Director of Men's Housing; then if space is available a room assignment will be made. On receipt of the room assignment, check the above dormitory list and if a reservation fee is required send immediately a check or money order, payable to the University of Georgia for the amount of the reservation fee. **DO NOT SEND CASH.** The amount of the reservation fee will be deducted from room charges payable at time of registration. **REFUND OF RESERVATION FEE CANNOT BE MADE** after August 15 preceding the Fall Quarter. Notice of withdrawal of room assignment with request for refund must be given **IN WRITING** to Director of Men's Housing.

If a student does not appear to occupy a room, or if official notification of a delay is not filed within the first five days of a quarter, the University reserves the right to cancel the reservation and to assign the room to another student.

Room rates on dormitories listed below include charges for flat work laundry. Laundry allowance for one week is 1 spread, 2 sheets, 1 pillow case, 6 towels, 2 wash cloths, 1 laundry bag. Optional laundry consisting of wearing apparel is offered at an additional charge.

NORTH CAMPUS

Candler Hall	\$39 per quarter
Clark Howell Hall	\$40 per quarter
Joe Brown Hall	\$40 per quarter
Law Dormitory	\$42 per quarter
Milledge Hall	\$40 per quarter
Milledge Annex	\$40 per quarter
Lucas House	\$30 per quarter
Convenient dining facilities at Denmark Hall. Rate approximately \$120 per quarter.	

SOUTH CAMPUS

Dudley Hall	\$35 per quarter
Fain Hall	\$35 per quarter
Griggs Hall	\$35 per quarter
Wilkins Hall	\$35 per quarter
Emergency Housing Units (if needed)	\$30 per quarter
Convenient dining facilities at Snelling Hall. Rate approximately \$120 per quarter.	

All rates are based on occupancy of two or more students per room. Rate for single occupancy will be an additional \$18 per quarter. The Director of Housing reserves the privilege of granting or assigning single occupancy.

RESIDENCE HALLS FOR WOMEN

The importance of convenient and suitable living arrangements for women students is fully realized by the University, which provides residence halls for all women students not living in town with their families. Women students are required to live in University dormitories. The only exceptions are: Married students, graduate students, those living with close relatives

or faculty families and those who are 23 years of age who have parental permission and a clear conduct record.

Housing preference forms will be mailed directly to students who have been officially admitted to the University by the Director of Admissions. RESERVATION FEE of \$15, payable by check or money order to the order of the University of Georgia, must be attached to Housing Preference Form. (DO NOT SEND CASH). NO DORMITORY ASSIGNMENT CAN BE MADE UNTIL RESERVATION FEE IS RECEIVED. The amount of reservation fee will be deducted from room charges payable at time of registration. REFUND OF RESERVATION FEE CANNOT BE MADE after August 15 preceding the Fall Quarter, or after December 10 preceding the Winter Quarter, or after March 5 preceding the Spring Quarter. Notice of withdrawal of room assignment with request for refund must be given IN WRITING to the Director of Women's Housing.

If a student does not appear to occupy a room, or if official notification of a delay is not filed within the first five days of a quarter, the University reserves the right to cancel the reservation and to assign the room to another student.

Room rates on dormitories, listed below, include charges for flat work laundry. Laundry allowance per week for women is 1 spread, 2 sheets, 1 pillow case, 6 towels, 2 wash cloths.

COORDINATE CAMPUS (First and second year students)

Dormitories \$44 per quarter
 A central residence dining hall serves these students. Rate for meals is approximately \$120 per quarter and will be added to room charges payable at registration.

LUCY COBB CAMPUS

Lucy Cobb Hall \$44 per quarter
 Residence dining hall. Rate for meals approximately \$120 per quarter added to room charges payable at registration.

SOUTH CAMPUS

Mary Lyndon Hall \$44 per quarter
 Rutherford Hall \$44 per quarter
 Soule Hall \$44 per quarter
 Convenient dining facilities at Snelling Hall. Rate for meals approximately \$120 per quarter.

All rates are based on occupancy of two or more students per room. Rate for single occupancy will be an additional \$18 per quarter. Rate for a private bath will be an additional \$10 per quarter. Rate for those occupying suites will be an additional \$5 per quarter. The Director of Housing reserves the privilege of granting or assigning single occupancy.

DORMITORY FACILITIES FOR MEN AND WOMEN STUDENTS. University-operated residence halls are opened on the afternoon of the day prior to the first day of registration and are closed on the day following the last scheduled date of examinations at the end of a quarter.

All rooms in the residence halls are furnished with single beds or double deckers, chairs, study tables, clothes cabinet or closet, and dressers or chest of drawers. Students are expected to furnish pillows, bed linens, blankets, and towels. It is suggested that students bring study lamps, dresser scarfs, and small rugs. Use of extra electrical heat appliances such as pressing irons, hot plates, heaters, etc., is not allowed in student rooms.

HOUSING FOR MARRIED STUDENTS. Emergency housing has been established on the University campus; 137 units for married students without children, and 223 units for those with children. These units include trailers, efficiency apartments, one-, two- and three-bedroom prefabricated units. Assignments to these units are made from a waiting list which is established according to date of application filed with Director of Men's Housing. Preference is given to veterans.

DINING HALLS. There are six University-operated dining halls situated conveniently to serve all the resident students. Each dining hall is supervised by a trained dietitian.

LAUNDRY SERVICE. The University operates a laundry as a convenience to its students and as a safeguard to their health. The quarterly charge made for dormitories includes the cost of flat work laundry.

ROOM AND BOARD REFUNDS. A student withdrawing from the University will be charged a daily rate for room and board from the beginning of the quarter to the date of withdrawal. After deductions for these charges have been made, the balance of the student's payments will be refunded to him at the end of the quarter.

Payments for room and board will not be refunded to a student who, while continuing as a student in the University, moves to a private home or to a sorority or fraternity house, or who ignores a room assignment.

ROOM AND BOARD IN FRATERNITY AND SORORITY HOUSES. The majority of the local chapters of fraternity and sorority organizations at the University maintain a house which provides room and board for its members. There are fourteen sororities and twenty fraternities at the University.

All fraternity and sorority houses are under the general supervision of the office of the Dean of Student Affairs and his associates. All sorority houses and several of the fraternity houses have house directors who exercise an immediate supervision over the activities of the houses. Only those women students who have lived on the campus for at least one quarter, and who are of sophomore standing or above will be permitted to live in sorority houses.

RESERVATION OF RIGHT TO CHANGE FEES. The University reserves the right to make changes in its fees and charges at the beginning of any quarter and without previous notice. This right will be exercised cautiously.

FEES AND EXPENSES

FEES PAYABLE ON REGISTRATION

MATRICULATION FEE. RESIDENT STUDENTS. Each student who is a resident of the State of Georgia is required to pay during the registration period at the beginning of each quarter a matriculation fee of \$57.50.

NON-RESIDENT TUITION. Every non-resident student shall pay during the registration period at the beginning of each quarter a non-resident tuition fee of \$100 in addition to the regular matriculation fees charged resident students.

MATRICULATION FEE FOR LAW STUDENTS. Students taking professional work in law are required to pay \$12.50 more per quarter than regular students. Students who are residents of Georgia must pay a quarterly fee of \$70 and non-resident students are required to pay a non-resident tuition fee of \$100 in addition to the \$70 charged resident students.

MATRICULATION FEE FOR VETERINARY MEDICINE STUDENTS. Students taking professional work in veterinary medicine are required to pay \$27.50 more per quarter than regular students. Students who are residents of Georgia must pay quarterly a matriculation fee of \$85, and non-resident students are required to pay a non-resident tuition fee of \$100 in addition to the \$85 charged resident students.

HEALTH SERVICE FEE. Each student is required to pay during the registration period at the beginning of each quarter a health service fee of \$2.50.

STUDENT NURSES. The University of Georgia basic student nurses will be charged \$10 a quarter while they are having their clinical nursing instruction at the hospitals, except in Public Health for which the fee will be \$57.50. This fee covers registration and supervision by the University Department of Nursing Education.

MATRICULATION FEE FOR STUDENTS WITH LESS THAN TWELVE QUARTER HOURS. Students who are permitted to register for less than twelve quarter hours of work must pay a matriculation fee of \$4.00 for each quarter hour except students in Law whose rate is \$5.00 per quarter hour and those in Veterinary Medicine whose rate is \$6.00. In addition to the quarter hour matriculation rates charged to resident students, non-resident students must pay a non-resident tuition fee of \$7.00 for each quarter hour of work taken.

DEFINITION OF LEGAL RESIDENCE

To be considered a legal resident of Georgia for the purpose of registering at the University of Georgia, a student must present evidence as follows:

(a) If under 21 years of age, that the supporting parent (or guardian) has been a *bona fide* resident of the State of Georgia for at least one year next preceding the registration date.

In the event that a legal resident of Georgia is appointed as the guardian of a non-resident minor, such minor does not become a resident until the expiration of one year from the date of appointment, and then only upon

proper showing that such appointment was not made to avoid the non-resident fee.

(b) If over 21 years of age, that *bona fide* residence in the State of Georgia has been established for at least one year next preceding registration and that he is eligible to become a registered voter. No person shall be deemed to have gained or lost residence while a student at the University of Georgia.

AUDITOR'S FEE. Persons desiring to attend courses or lectures without examination or credit may secure an auditor's ticket. Fees for auditors are the same as those for students registered for credit.

BREAKAGE DEPOSITS AND SPECIAL FEES. There are no general laboratory fees, but there are a few courses offered that require special fees, such as agronomy for cotton grading and field trips; forestry for forestry camp; landscape architecture for field trips; and music for private lessons. The catalogue description of a course indicates the amount of any special fee that may be required of those registering for the course.

In certain laboratory courses requiring the use of expensive equipment, students must pay a breakage deposit fee. This fee will be returned at the end of the year less any deductions for breakage. Students whose breakage has exceeded the deposit must make an additional payment to the University. The catalogue statement regarding a course indicates any breakage deposit fee that may be required.

ARMED SERVICES UNIFORMS, FEES, AND TEXTBOOKS. Students enrolling in the Army or Air Force ROTC will be furnished uniforms through the University of Georgia at an approximate cost to the student as follows:

Basic Course	\$57.50 Plus \$2.50 Account Fee
Advanced Course	\$82.50 Plus \$2.50 Account Fee

At registration, each student enrolling in basic or advanced ROTC will be required to pay the deposit as indicated above. A list of these students will be submitted to the ROTC as authority for the military property custodian to issue prescribed articles of uniform and insignia.

Students formally enrolled in ROTC are authorized a commutation in lieu of uniform which is earned in accordance with the length of time actually enrolled. The uniform allowance for basic course students is \$25.00 per student per year not to exceed two years; for advanced course students \$90.00 per student for a two year period. These amounts are subject to change by the two departments but were in force for the 1950-51 fiscal year. The amount paid each student will not exceed the value of the articles of uniform purchased through the University of Georgia. The account will be balanced and final settlement will be made by the Treasurer's Office after the close of the fiscal year (during the summer), except for advanced course students completing the course, whose accounts will be closed and balanced during the summer following the end of the second year of the course. Any portion of the commutation in lieu of uniform not expended by the student will be returned by the institution to the Federal Government.

All second year basic course students will continue under the old plan whereby the U. S. Government issues the uniform in kind. Such students will not draw commutation.

All text books and manuals required for courses in Military and Air Science and Tactics are furnished free of charge by the U. S. Government; however, students are held responsible for them in cases of loss or undue damage.

TIME AND METHOD OF PAYMENT OF FEES AND CHARGES

TIME OF PAYMENT. All fees, deposits, and charges for room and board are payable during the registration period at the beginning of each quarter. A student is not officially registered as a student in the University until such fees and charges are paid. Students who do not make payment within the registration period will be required to pay the service charge for late registration.

METHOD OF PAYMENT. All payments should be made to the Treasurer's office in the Academic Building on the north campus. Fees and charges may be paid in cash or by check in the exact amount of the student's bill. If a check given for a student's bill is not paid on presentation to the bank on which it is drawn, the student's registration will be cancelled. If the registration is cancelled after the registration period for the quarter has expired, the student may re-register only on payment of the service charge for late registration.

Students are advised to bring their money in the form of express or travelers' checks or money orders and to deposit these in a local bank.

SPECIAL FEES AND CHARGES

SERVICE CHARGE FOR LATE REGISTRATION. A student who fails to register on the days set aside for that purpose will be subject to penalties as follows: For the first day beyond the scheduled dates, \$5; and for each succeeding day up to and including the fourth day, \$2; or a total of \$11.

SPECIAL EXAMINATION FEE. The University reserves the right to charge a fee of \$2 for any special examination that may be given at the request of a student.

FINE FOR ABSENCES BEFORE AND AFTER HOLIDAYS. A student who is absent from any class or regular University exercise on the day before or the day after a holiday period and who has no valid excuse for such absence may be required to pay a fine of \$2 for each of the days on which an absence occurred.

TRANSCRIPT FEE. A student who has discharged all financial obligations to the University is entitled to receive on request and without charge one transcript of his academic record. A charge of \$1 will be made for each additional transcript.

DIPLOMA FEE. The fee for a diploma is \$8 for undergraduate, \$10 for masters, and \$25 for doctors degree, which fee includes rental of cap and gown. The doctors fee also includes cost of hood.

GRADUATE RECORD EXAMINATION. All graduate students are required to take the Graduate Record Examination before they are admitted to candidacy for a graduate degree. The fee for students taking this examination under the Institutional Plan (scheduled for regularly enrolled students) is \$3. For

students taking the examination under the Independent Plan (scheduled primarily for undergraduates and others anticipating graduate work at some other institution) the fee is \$10.

FEE REFUNDS

Students who formally withdraw from the University within one week following the scheduled registration date are entitled to a refund of 80 per cent of the fees paid for that quarter.

Students who formally withdraw within a period of one to two weeks after the scheduled registration date are entitled to 60 percent of the fees paid for that quarter.

Students who formally withdraw during the period between two and three weeks after the scheduled registration date are entitled to a refund of 40 percent of the fees paid for that quarter.

Students who formally withdraw within a period of three to four weeks after scheduled registration date are entitled to a refund of 20 per cent of the fees paid for that quarter.

Students who withdraw after a period of four weeks has elapsed from the scheduled registration date will be entitled to no refund of any part of the fees paid for that quarter.

Students suspended for disciplinary reasons shall have no right to a refund of any portion of any fees paid.

Breakage deposits less any authorized deductions will be refunded at the end of the academic year or at the close of the quarter following a student's withdrawal from the University.

Information regarding refunds of payment of room and board is set forth under the heading of "Student Housing."

NO REFUNDS OF ANY NATURE CAN BE MADE EXCEPT AT THE END OF A QUARTER.

RESERVATION OF RIGHT TO CHANGE FEES

The University reserves the right to make changes in its fees and charges at the beginning of any quarter and without previous notice. This right will be exercised cautiously.

SUMMARY OF EXPENSES

It is estimated that the reasonably necessary annual expenses of a student at the University vary from \$700 to \$850. This estimate includes University fees and cost of books, military uniform, room, board and laundry; it does not include travel, clothing, and incidental expenses.

Law students, veterinary medicine students, and non-resident students will find the cost somewhat more because of the higher fees required of them.

FINANCIAL AID FOR STUDENTS

LOAN FUNDS

For the assistance of deserving students who have not sufficient means to pay all their college expenses a number of loan funds have been established by friends of the University. A loan to a student in any academic year will not ordinarily exceed the amount of his fees during that year.

Unless otherwise specified, application for loans should be addressed to the office of the Director of Placement and Student Aid, who administers the awarding of loans under the policies of a faculty committee. Applications for loans should be made at least one month before the time the funds will be needed.

In the following alphabetical list the category of students eligible for the loan is indicated. Unless otherwise stated the loan fund is available only to men students.

LUCILE ALEXANDER FUND. Juniors and seniors in the School of Home Economics.

ALPHA ZETA FUND. Members of the Alpha Zeta Fraternity.

ALUMNI ASSOCIATION FUND. (College of Agriculture.) The College of Agriculture.

PRESTON S. ARKWRIGHT FUND. The College of Agriculture.

R. & L. ARNOLD FUND. The College of Agriculture.

ATLANTA COTTON OIL COMPANY FUND. The College of Agriculture.

ATLANTA JOURNAL FUND. The College of Agriculture.

ATLANTA STOCKYARDS FUND. The College of Agriculture.

DUPREE BARRETT FUND. Juniors and seniors in the School of Forestry.

L. H. BEALL FUND. The College of Agriculture.

CHARLES H. BRAND FUND. The University.

MARY UPSHAW BROACH SCHOLARSHIP FUND. Home Economics Students.

CHARLES McDONALD BROWN FUND. The University and The Medical College.

HENRY W. BROWN FUND. The University.

SHEPARD BRYAN FUND. The College of Agriculture.

BEENICE F. BULLARD FUND. Men and women students of the University.

ASA G. CANDLER FUND. The College of Agriculture.

CHARLES H. CHANDLER FUND. The College of Agriculture.

CHARLTON COUNTY 4-H CLUB DAWSON FUND. The College of Agriculture.

CHAMBERLAIN-JOHNSON-DuBOSE FUND. Juniors and seniors in the School of Home Economics.

A. F. CHURCHILL MEMORIAL FUND. Men and women students of the University.

CITIZENS AND SOUTHERN NATIONAL BANK FUND. The College of Agriculture.

OBADIAH LEWIS CLOUD FUND. The University.

E. T. COMER FUND. The University, preference to be given students from rural sections.

- THE DAWSON FUND.** Men in the College of Agriculture and women in the School of Home Economics.
- MRS. J. H. CLOUDMAN FUND.** The College of Agriculture.
- D. A. R.-ELIJAH CLARKE CHAPTER FUND.** Women students of the University.
- D. A. R.-LILA NAPIER JELKS FUND (Hawkinsville Chapter).** Juniors and seniors of the University whose homes are in Pulaski County.
- D. A. R. MEMORIAL FUND.** The University.
- D. A. R. RICHMOND WALTON McCURRY FUND.** Women students of the University.
- D. A. R.-MAY E. TALMADGE FUND.** Men and women students of the University.
- W. S. DENMARK FUND.** Men and women of the University.
- DRUID HILLS METHODIST MEMORIAL EDUCATIONAL FUND.** The University.
- EUGENE AND HARRY DODD FUND.** The University.
- ELBERT COUNTY DAWSON FUND.** Men in the College of Agriculture whose homes are in Elbert County.
- J. C. DUKES FUND.** Students from Terrell and Coweta Counties in the College of Agriculture, School of Home Economics, and College of Business Administration.
- EPSILON SIGMA PHI FUND (Alpha Beta Chapter).** The College of Agriculture.
- EXCHANGE CLUB (Atlanta).** The College of Agriculture.
- W. W. FINDLEY FUND.** The College of Agriculture.
- LUCY HURT FISHER FUND.** Men and women in the College of Agriculture.
- CHAS. W. FORD FUND.** The College of Agriculture.
- FORESTRY LOAN FUND.** The School of Forestry.
- FOUR-H CLUB FUND.** The College of Agriculture.
- FRESHMAN Y COMMISSIONER FUND.** Freshman women of the University.
- GEORGIA-A. & W. P. RAILROAD FUND.** The College of Agriculture.
- GEORGIA BANKERS' FUND.** The College of Agriculture.
- GEORGIA BANKERS' BOYS CLUB FUND.** The College of Agriculture.
- GEORGIA BANKERS' GIRLS CLUB FUND.** Juniors and seniors in the School of Home Economics.
- GEORGIA POWER COMPANY FUND.** The College of Agriculture.
- GIRLS CANNING CLUB FUND.** Juniors and seniors in the School of Home Economics.
- JAMES C. HARRIS FUND.** Men and women students in the University.
- FRANK HAWKINS FUND.** The College of Agriculture.
- A. L. HULL MEMORIAL FUND.** The University.
- J. H. HUNT FUND.** Men and women students of the University, preferably from North Georgia.
- MRS. GRAHAM JOHNSON FUND.** The College of Agriculture.
- BESS D. JONES FUND.** The College of Agriculture.
- JUNIOR LEAGUE, ATLANTA FUND.** Juniors and seniors in the School of Home Economics.

- KIRKWOOD P.-T.A. FUND. The College of Agriculture.
- CHARLES L. JR., AND JOHN KING LOAN FUND. Men students of the University.
- J. B. KEOUGH FUND. The College of Agriculture.
- JOSEPH RUCKER LAMAR SCHOLARSHIP FUND. First to a student from Richmond Academy in Augusta, Georgia, for use at the University of Georgia; second, to other students in the state.
- LANDSCAPE ARCHITECTURE STUDENT LOAN FUND. Students in Landscape Architecture.
- FRANCIS EUGENE LANIER FUND. Juniors and seniors in the School of Home Economics.
- FRANCIS A. LIPSCOMB FUND. The University.
- ARTHUR LUCAS FUND. The College of Agriculture.
- JOSEPH HENRY LUMPKIN FUND. The University.
- MRS. P. C. McDUFFIE FUND. The College of Agriculture.
- MCINTOSH COUNTY DAWSON FUND. Juniors and seniors in the School of Home Economics whose homes are in McIntosh County.
- MACON COUNTY DAWSON FUND. The College of Agriculture whose homes are in Macon County.
- MR. AND MRS. T. O. MARSHALL FUND. Men and women students of the University.
- R. H. MARTIN FUND. The College of Agriculture.
- MOINA MICHAEL FUND. (Given by the American Legion Auxiliary.) Sons and daughters or brothers and sisters of World War Veterans.
- THOS. E. MITCHELL FUND. Men and women students of the University.
- UNIVERSITY OF GEORGIA MITCHELL FUND. Men and women of the University.
- COORDINATE MITCHELL FUND. The Coordinate College.
- GEORGIA TECH MITCHELL FUND. Students of Georgia Tech. (Write Georgia Tech.)
- G. S. C. W. MITCHELL FUND. Students of G. S. C. W. (Write G. S. C. W.)
- MOON LOAN FUND. Men and women students of the University.
- R. C. NEELY FUND. The College of Agriculture.
- C. T. NUNNALLY FUND. The College of Agriculture.
- J. CARROLL PAYNE FUND. Juniors and seniors in the School of Home Economics.
- PHI DELTA PHI FUND. Members of that fraternity.
- BENJAMIN Z. PHILLIPS FUND. Members of the second-year law class.
- ALBON W. REED FUND. The College of Agriculture.
- BERTHA RICH FUND. Juniors and seniors in the School of Home Economics.
- E. RIVERS FUND. The College of Agriculture.
- JAS. D. ROBINSON FUND. The College of Agriculture.
- S. D. V. FRATERNITY FUND. The College of Agriculture.
- SALE CITY DAWSON FUND. Men in the College of Agriculture from Sale City.
- JOHN D. SIMMONS FUND. The College of Agriculture.

HOKE SMITH FUND. The College of Agriculture.

STUDENTS LOAN FUND. Men and women students of the University.

MARK SULLIVAN FUND. Men and women students of the University.

BERRYMAN THOMPSON FUND. Men and women from Coweta County.

MELDRIM THOMPSON FUND. Senior Law students of the University.

FRANCES C. TUCKER FUND. Women in the University.

LEILA BATES TYE FUND. Home Economics 4-H girls.

LOUIS WELLHOUSE MEMORIAL FUND. Men and women students of the University.

C. P. WHITEHEAD FUND. The College of Agriculture.

CECIL WILCOX LOAN FUND. Men students of the University.

ROBERT W. WOODRUFF FUND. The College of Agriculture.

IDA A. YOUNG FUND. The Coordinate College.

FOUNDATION LOAN FUNDS

A number of Educational Loan Foundations outside the University lend money to deserving students on terms similar to those of the regular University funds. Students may write these Foundations directly or be recommended by the Director of Student Aid of the University. Largest among these foundations are:

LEWIS H. BECK FOUNDATION

Mrs. Miriam W. Jenkins, Secretary, 1421 Candler Building, Atlanta, Georgia.

KNIGHTS TEMPLAR EDUCATIONAL FOUNDATION

Mr. Thomas C. Law, Chairman, P. O. Box 1558, Atlanta, Georgia.

PICKETT AND HATCHER EDUCATIONAL FOUNDATION

Mr. Guy E. Snavely, Jr., Executive Secretary, First National Bank Building, Columbus, Georgia.

ROTARY EDUCATIONAL FOUNDATION OF ATLANTA

Mr. Kendall Weisiger, Chairman, 603 Forsyth Building, Atlanta, Georgia.

STUDENT AID FOUNDATION OF THE GEORGIA FEDERATION OF WOMEN'S CLUBS

Mrs. C. T. Pottinger, Executive Secretary, 2475 Rivers Road, N. W., Atlanta, Georgia.

JOHN T. HALL STUDENT LOAN FUND

Mr. Ray Wilhoit, Trust Company of Georgia, Atlanta, Georgia.

Many civic organizations and clubs throughout the cities of Georgia maintain loan funds for local students. Students should make inquiry of these clubs.

STUDENT EMPLOYMENT

Besides the scholarships, honors, awards, and prizes open to University students, the office of the Dean of Students maintains a Bureau of Student Employment in its Office of Placement and Student Aid. One aim of this bureau is to assist students who find it necessary or desirable to earn a part of their college expenses. Work opportunities occur in the libraries, dining halls, dormitories, and in a few academic departments. A few jobs, formerly called student activity scholarships, are given to talented students who are capable of serving the University as leaders in various extra-curricular activities. Some of the activities in which such students may engage are the University Band, Orchestra, and Debating Teams.

It is very difficult to secure a job for a student before he arrives in Athens. Employers usually insist on personal interviews. A student should come to the University prepared to pay all his expenses for at least the first quarter of his residence.

Each year the bureau assists many students in finding jobs. A student should not expect, however, to be able to earn enough to pay all expenses. The regular academic program of the University provides a full load of work for the average student. A student who does any considerable amount of outside work will find it necessary to carry a reduced load of academic work and to spend a correspondingly longer time at the University.

Students interested in part-time employment should write to the Director of Placement and Student Aid.

Additional financial aid for graduate students will be found in the General Catalogue under Graduate School.

PLACEMENT OF GRADUATES

The Office of Placement and Student Aid undertakes to assist those who have been enrolled as students in securing business and professional positions and teacher appointments. The office is in constant touch with a large number of alumni and business organizations and school systems that are potential employers of University students.

Any person, whether undergraduate or an alumnus, is eligible to register for placement assistance. All seniors and graduate students are urged to have a personal interview with the Director of Placement and Student Aid.

In addition to the over-all campus placement service this office works very closely with the deans of the professional schools in aiding with the placement of their graduates.

The Office of Placement also maintains a Camp Placement Bureau which assists students and graduates to locate jobs as counselors and assistants in summer camps. This service is particularly attractive to teachers whose schools do not have a summer session. Students and graduates should get in touch with the Camp Placement Bureau if they are interested in camp work for the next summer. For placement information write to the Director of Placement and Student Aid.

THE DIVISION OF GENERAL EXTENSION INQUIRIES

All inquiries concerning the work of this Division should be addressed to The Director, The Division of General Extension, The University of Georgia, Old College, Athens, Georgia.

HISTORY

The Division of General Extension was established in 1922 as the Division of Extension Teaching in the University. Prior to that time the extension activities of the University had been incidental and sporadic. Two years of growth and expansion resulted in the establishment of a Division of University Extension. Special instructors were added to the staff and a Director was placed in charge. In 1932 the Division of General Extension of the University System of Georgia was organized and the University office became a part of the system-wide division with offices in Atlanta. In 1947, the Board of Regents transferred the administration of the Division to the University of Georgia with offices again on the University campus.

ORGANIZATION

The Division of General Extension is a service division of the University System. It utilizes the resources of the entire University System, both human and physical, to take higher education to the people of the state. These services are rendered with the approval of the administrative and departmental heads and are directly supervised by the persons responsible for the work on the campus. Academic standards of the University are fully maintained and students participating in extension activities receive the same amount of credit as do resident students for the same or equivalent work.

CREDIT

More and more emphasis in adult education is being placed on programs for which no college credit is anticipated. In line with current trends throughout the country the University of Georgia offers many courses for professional competency and general education in communities over the state. Where these courses parallel the work of classes on the campus University credit may be earned and students may apply as much as forty-five quarter hours of such credit toward the bachelor degree. No graduate credit may be earned through the extension program.

In-service teachers and students seeking degrees are advised to contact the dean of their college regarding course requirements. The Division of General Extension will make every effort to offer those courses of most value to students but cannot accept the responsibility for determining individual requirements for degrees or certificates.

FEES

Fees charged for extension class instruction, correspondence instruction, and off-campus center instruction are those ordinarily charged resident students at the University. Matriculation fee is \$4.00 per quarter hour. Lab-

oratory and registration fees are at the regular University rate. All fees are payable at the time of registration.

UNITED STATES ARMED FORCES INSTITUTE. Men and women on active duty in the defense program may continue their college work through correspondence study.

Information about this program may be obtained from the Education Office at camp or from U. S. A. F. I. Headquarters, Madison 3, Wisconsin.

VETERANS

Veterans who qualify under Public Law 346 or Public Law 16 are eligible to participate in the program of the Division of General Extension. The Division offers the services of a trained adviser on veterans affairs for consultation.

MAJOR FIELDS OF SERVICE

OFF-CAMPUS CENTERS. In strategic Georgia communities Centers have been developed to promote adult education programs. Full time directors are available to work with citizens in all aspects of education beyond the high school level. The program is primarily designed to give evening instruction to students who work during the day and are unable to leave their home communities to attend college. The instruction is under the direct supervision of the department concerned at the University of Georgia. Entrance requirements and fees are the same as those on the campus.

A number of extra curricular programs in the Arts and with business are conducted in cooperation with local groups. The pattern for these programs is established in most instances by the desire of the communities.

CORRESPONDENCE STUDY. Correspondence courses are developed and taught by regular members of the faculties of the four year institutions of the University System. They are comparable in content to equivalent courses given on the campus. The outlines are designed to fill the definite needs of those who cannot attend regular University sessions. Resident students who wish to carry correspondence work in addition to their regular load must have the written permission of the dean of their college.

EXTENSION CLASSES. Each year the Division organizes and conducts extension classes in communities throughout the state. Work done in these classes corresponds in class requirements and credit hours to that done in similar courses on the campus. These courses are outlined and wherever possible conducted by regular members of the University System faculties. The nature and number of courses given by extension class instruction are determined by the availability of competent instructional staff, the availability of library, laboratory, and other physical facilities, and the location and number of persons desiring the course. While there are many courses that may be given profitably away from the campus, the final decision as to course offerings rests with the head of the department concerned.

FILM LIBRARY. The Division pioneered in the field of audio-visual material and today has one of the best educational film libraries in the southeast. As a service to the units of the University System, to other schools and col-

leges, county agents, home demonstration agents, club and church groups, the Film Library offers more than 2,000 titles for distribution. Films are available in sound and silent 16mm size to units of the University System and county and home demonstration agents for transportation charges. To all other users there is a nominal charge for service and insurance. The library is constantly adding films suitable for use by college groups or adult groups in all communities.

PHOTOGRAPHIC SERVICE. A modern, well-equipped photographic laboratory is maintained to make pictures for current news stories and research projects, slides for classroom use, and other educational photographic services. Prints of University activities are made available to the public at a minimum charge.

CONFERENCE, INSTITUTES AND SHORT COURSES. The Division recognizes the growing demand in the field of adult education for short term, non-credit seminars and refresher courses. Members of the University System faculty and professional and business leaders have joined resources both on and off campus to provide the best and most up-to-date leadership in these programs. Among the programs presented during this year are: Georgia Accounting Institute, Georgia Student Art Conference, Small Business Seminars, State Drama Festival, Forums on Gerontology, Regional Industrial Development Conference, Institute on Modern Foreign Languages, Leadership Institute, Pharmacy Seminars, Speech Conference, and Short Course for Tax Officials.

An experienced staff welcomes the opportunity to serve in planning and promoting such conferences to meet the growing educational needs of Georgia.

ARTISTS AND LECTURERS. Members of the University faculty and student body are available to community groups for concerts and lectures. Many service clubs have taken advantage of this opportunity in planning programs on music, art and contemporary affairs. Dr. C. Mildred Thompson, speaking on United Nations topics and Alfred H. Holbrook, Curator of the Georgia Museum of Art, as well as a number of foreign students on the campus have been particularly popular lecturers.

CITIZENSHIP AND UNITED NATIONS INFORMATION. In cooperation with the Department of Justice, Immigration and Naturalization Service, the Division handles a home study course for those who have applied for U. S. citizenship and are studying for their Federal Examination. By special appointment of the United Nations Department of Public Information, Lake Success, the Division acts as United Nations Volunteer Educational Center and Voluntary Correspondent Speakers Unit for Georgia residents. Files of current and historical material on the United Nations are maintained; Loan Kits are available for distribution throughout the state.

OTHER UNIVERSITY ACTIVITIES

SHORT COURSES, CONFERENCES, AND INSTITUTES

The various colleges and schools of the University conduct short courses, conferences, and institutes for the purpose of assisting various groups of citizens to keep informed about the latest developments in their respective

fields of interest. Some of these meetings are sponsored by business, professional, and social organizations. Members of the University faculty and outside specialists offer instruction in short courses and conduct lectures, demonstrations and conferences. Public announcement is made from time to time regarding special programs of this type that will be held on the University Campus.

Among the conferences sponsored by the College of Education are the Conference of Superintendents and School Administrators and the Rural Life Conference. For several years the Georgia Congress of Parents and Teachers has held a Parent-Teacher Institute at the University in June.

For many years the School of Journalism and the Georgia Press Association have conducted during the month of February a Press Institute for the editors of the papers of the state.

The College of Agriculture conducts Short Courses for the citizens of Georgia as a definite part of its instructional program. These courses are normally given during the winter months. They deal with any subject-matter related to agriculture in which there is a popular interest. Announcements will be mailed to anyone on request.

Other short meetings held at the University are the Woman's Club Institute, the Garden Club Institute, and the conference for those engaged in insurance work.

The University is glad to cooperate with any organization or group in planning a conference or institute that will fill a worthwhile need. Communications regarding such matters should be addressed to The Division of General Extension, University of Georgia.

THE UNIVERSITY OF GEORGIA PRESS

The University of Georgia Press was established in 1939. One of its purposes is to advance learning and disseminate knowledge by the publication of books that in their content and presentation contribute to a better understanding of human affairs. Another purpose is to encourage creative literary and scientific work by providing facilities for the publication of the results of such work. The University Press is glad to consider for publication not only the work of University professors but the productions of scholars throughout the nation. A Board of Directors appointed by the Board of Regents and an Advisory Faculty Committee appointed by the President of the University control the publishing policies and supervise the work of the University Press.

MIMEOGRAPHING

Another service offered by the Press is mimeographing, available to departments and organizations of the University as well as to the public.

For information regarding the publications or work of the University Press, communications should be addressed to Director of the University of Georgia Press, Athens, Georgia. A list of the publications of the Press will be sent on request.

ATHLETIC ASSOCIATION

The University of Georgia conducts a complete program of intercollegiate athletics. The University is a member of the Southeastern Athletic Conference and abides strictly by the regulations and policies of the conference. Although the University Faculty has general control of internal policies of the University relating to all phases of intercollegiate athletics, the University of Georgia Athletic Association has been created to facilitate the handling of the business and financial side of the intercollegiate program. The President of the University is ex-officio chairman of the Board of Directors and a majority of the members of the Board are faculty members. The other members of the Board are alumni and friends of the University.

The funds of the Athletic Association are subject to the control of the Board of Regents.

ALUMNI SOCIETY

The University of Georgia Alumni Society was organized in 1834 and has been continuously active since that time. Its purpose is to keep former students of the University interested in and in touch with one another and also to encourage former students to manifest a continued interest in the University.

All persons who at any time were matriculated as regular students in the University at Athens are members of the Society. A member who contributes annually to the Alumni Fund has the privilege of voting on all business matters, is eligible for election as an officer in the Society, and receives a subscription to the *Alumni Record*, a monthly magazine about alumni and campus activities. Students are invited to visit the Alumni Office, to confer with the secretary, and to learn about the general work of the Society.

The government of the Society is in the hands of a Board of Managers elected by the members of the Society. Officers of the Society are elected annually. "Alumni Day," the time for class reunions and other alumni celebrations, is held each year at Commencement.

The business offices of the Alumni Society are on the second floor of the Academic Building, and are under the direction of William M. Crane, Jr., Alumni Secretary.

THE UNIVERSITY FOUNDATION

In 1937 the Alumni Society through its officers sponsored the organization of the University of Georgia Foundation. The Foundation is a corporation under the laws of the State of Georgia and has a self-perpetuating Board of Trustees. The Board consists of twenty-three alumni of the University.

The purposes of the University Foundation are to develop the facilities of the University and to strengthen its financial resources by encouraging gifts for the benefit of the University and also to receive, hold, and administer such gifts of money in accordance with the instructions of the donors. The Board of Trustees of the University Foundation is particularly interested

in receiving donations and bequests which will enable it to make financial provision for University needs other than those that are adequately met by state appropriations.

The officers of the University of Georgia Foundation at the present time are Dr. Phinizy Calhoun, President; Mr. Walter S. Cothran, Vice President; Mr. Hughes Spalding, Secretary; and Mr. Cam D. Dorsey, Treasurer. Information regarding the Foundation may be obtained from Hughes Spalding, Secretary, Trust Company of Georgia Building, Atlanta, or from the President of the University.

THE M. G. MICHAEL AWARD FOR RESEARCH BY FACULTY MEMBERS OF THE COLLEGE OF ARTS AND SCIENCES

This award for research by some faculty member of the College of Arts and Sciences was created in 1944 by Leroy and David Michael in honor of their father, Moses G. Michael, a graduate of the class of 1878. The fund is administered by the University of Georgia Foundation. The annual award amounts to \$500. The corpus is being increased from time to time by the Michael brothers.

THE ARTHUR LUCAS MEMORIAL FUND

Established in 1946 by Mrs. Margaret C. Lucas, Atlanta, as a memorial to her late husband, this fund is to encourage the study of the recording, projecting, and transmission of images, pictures, and sound by scientific means. This fund, the corpus of which is now \$15,000.00, will be administered by the University of Georgia Foundation.

THE GRADUATE SCHOOL

HISTORICAL

Although the first statutes of the University contemplated resident graduate students, it was the custom here (as it was elsewhere) to confer the degree of Master of Arts upon any Bachelor of Arts of good character who, three years or more after graduation, should formally apply for the degree and pay a fee therefor. In 1868 a course of study was laid down which candidates for the master's degree were to pursue. From 1869 until 1890 the regulations required the candidate to complete successfully the most advanced course in each of the academic (non-professional) schools. In 1892 the requirements for the degrees became substantially the same as they are now, though slight modifications have been made from time to time.

Prior to 1910 the graduate work of the University was supervised by the faculty, chiefly through its Committee on Graduate Courses. In 1910, the Board of Trustees set the work apart by the creation of the Graduate School and the appointment of its first dean.

ADMISSION

A prospective applicant for admission to the Graduate School should secure from the office of the Dean of the Graduate School blanks to be used in applying for general admission to the University of Georgia and specific admission to the Graduate School. These applications should be completed and returned to this office at least six weeks before the opening of the quarter in which the student desires to register. The applications must be accompanied by *two official transcripts* of all courses taken by the applicant in college or university indicating what degree or degrees he has received. These transcripts provide information necessary to the dean and the major professor, and *must be in their hands before the registration of the student may become final.*

Graduates of institutions accredited by the Association of American Universities or other recognized accrediting agency may be admitted to the Graduate School upon the presentation of a certificate of graduation and an official transcript of all courses taken. Graduates from non-accredited institutions may be admitted to the University as unclassified post-graduates and may later be admitted to full graduate standing on a basis of examinations and course work designed to indicate their degree of fitness for regular graduate study.

The University reserves the right to require, in addition to the qualifications for admission already stated, any tests or special work deemed advisable by the faculty in the interest of quality of work in the Graduate School.

All students in the University who are graduates of standard colleges must be registered in the Graduate School, regardless of what course they are taking, unless they are candidates for another bachelor's degree.

Admission to the Graduate School does not imply admission to candidacy for a degree. The requirements for admission to candidacy are stated elsewhere in this bulletin.

MASTERS' DEGREES

The masters' degrees now conferred by the University are Master of Arts, Master of Arts in Journalism, Master of Science, Master of Science in Agriculture, Master of Science in Agricultural Engineering, Master of Science in Business Administration, Master of Science in Chemistry, Master of Science in Education, Master of Science in Forestry, Master of Science in Home Economics, Master of Science in Pharmacy, Master of Agriculture, Master of Business Administration, Master of Education, Master of Fine Arts, Master of Forestry, Master of Laws, and Master of Music Education.

MASTER OF ARTS. Prerequisite degree: Bachelor of Arts or Bachelor of Science. The major and at least one minor must be made up of courses selected from the following departments of study: Economics, English, Geography, German, Greek, History, Latin, Mathematics, Modern Languages, Philosophy, Political Science, Psychology, and Sociology.

NOTE: In individual cases a professional degree may be accepted as the prerequisite degree for a Master of Arts or a Master of Science degree, provided the student's undergraduate program has met certain requirements of liberal as well as technical courses.

MASTER OF ARTS IN JOURNALISM. Prerequisite degree: Bachelor of Arts or Bachelor of Arts in Journalism from an accredited institution and the necessary undergraduate courses in Journalism. The major study must be in Journalism; one minor should be chosen from the social sciences and one minor from English.

MASTER OF SCIENCE. Prerequisite degree: Bachelor of Science or Bachelor of Arts. The major and at least one minor must be made up of courses selected from the following departments of study: Astronomy, Bacteriology, Botany, Chemistry, Mathematics, Physics, Physiology, Psychology, Zoology.

MASTER OF SCIENCE IN AGRICULTURE. An approved baccalaureate degree is prerequisite. The major and at least one minor must be selected from courses offered in the College of Agriculture. One minor may be chosen from graduate courses offered in other departments of the University.

MASTER OF SCIENCE IN AGRICULTURAL ENGINEERING. Prerequisite: Bachelor of Science in Agricultural Engineering. The major study must be in the Department of Agricultural Engineering. Minors are to be selected with distinct reference to the major.

MASTER OF SCIENCE IN BUSINESS ADMINISTRATION. Prerequisite degree: Bachelor of Business Administration, or its equivalent. The requirements for this degree are the completion of a major of four courses, two minors of two courses each, and a thesis. The major and one minor must be chosen from the graduate courses in Business Administration and Economics. One of the minors may be taken in a related field.

MASTER OF SCIENCE IN CHEMISTRY. Prerequisite degree: Bachelor of Science in Chemistry or its approximate equivalent. For students who hold assistantships this degree will require a minimum of two years of graduate work, the second year being devoted in large part to research.

A student will be admitted to candidacy for this degree only after he has shown a reading knowledge of both French and German and after he has passed preliminary written, and possibly oral examinations given by the Department of Chemistry. These examinations cover in a general way the divisions of inorganic, organic, analytical, and physical chemistry. The written examination on these four fields will constitute the student's final written examination. Any student who fails to pass the examination on two of these divisions or who fails to pass any re-examination will be requested to withdraw his application for admission to candidacy for this degree. The final oral examination is given after the thesis has been approved. It is primarily a defense of the thesis.

The degree of Master of Science in Chemistry is for those students who intend to follow chemistry as a profession, especially for those who expect to continue their studies toward the doctorate in chemistry. It, therefore, differs from the degree of Master of Science with a major in chemistry by being more professional in character.

MASTER OF SCIENCE IN EDUCATION. The minimum requirement for the degree of Master of Science in Education is the completion of an approved program, residence to the extent of one academic year, and a thesis based upon data secured from original source material. At least one minor must be taken in a field other than Education. Candidates for this degree must complete for credit Education 816, Methods and Applications of Educational Research. The student should seek the advice of the Chairman of the Division of Graduate studies of the College of Education in determining the suitability of this degree program to his educational purposes.

MASTER OF SCIENCE IN FORESTRY. Prerequisite degree: Bachelor of Science in Forestry or Forest Engineer. The major courses must be in Forestry; one minor may be selected from any department of the College of Agriculture and one minor from any other department or college of the University.

MASTER OF SCIENCE IN HOME ECONOMICS. Prerequisite degree: Bachelor of Science in Home Economics or its equivalent. The major study must be in Home Economics and one minor may also be taken in that school. Minors will be selected with distinct reference to the major.

MASTER OF SCIENCE IN PHARMACY. Prerequisite: Bachelor of Science in Pharmacy degree from this University, or must have had equivalent training at some other institution accredited by the American Council on Pharmaceutical Education. A student will be admitted to candidacy for this degree only after he has passed preliminary written or oral examinations given by the School of Pharmacy. These examinations cover in a general way the divisions of pharmacy, pharmaceutical analysis, pharmacology and organic medicinal chemistry.

MASTER OF AGRICULTURE. Prerequisite degree: Bachelor of Science in Agriculture, or equivalent degree. The minimum requirement for this degree is

an approved program of study carrying sixty quarter-hours' credit with four quarters of residence. The course work must include at least three five-hour courses in each of three fields of agriculture. The program will include a comprehensive paper based upon a survey of the literature dealing with the chosen phase of the student's program. A maximum of five quarter-hours' credit may be allowed for this written report.

This degree program is designed to meet the vocational needs of persons engaging in general agricultural pursuits such as that of agricultural science teachers in the public schools, county agents, farm administration personnel, and others. It is considered to be a professional degree in general agriculture and is not available to persons seeking concentration in a particular department of the College of Agriculture.

MASTER OF BUSINESS ADMINISTRATION. Prerequisite degree: An approved baccalaureate degree. The minimum requirement for the professional degree of Master of Business Administration is an approved program of sixty quarter hours of graduate courses, and a residence requirement of four quarters. Students holding a Bachelor of Business Administration degree usually can qualify for the degree by meeting the minimum requirements. Students holding a baccalaureate degree in other fields will be required to take from five to forty quarter hours additional work in business or economics courses, depending upon the applicant's previous training.

Candidates for this degree must complete for credit a minimum of fifteen quarters hours in courses numbered 800. At least forty-five hours of the student's graduate program must be in the field of economics and business administration.

MASTER OF EDUCATION. The minimum requirement for the degree of Master of Education is an approved program, including eleven courses (fifty-five quarter hours), and a residence requirement of thirty-six weeks. At least three of the courses in the student's program must be in fields other than Education. Candidates for this degree must complete for credit the two following required courses: Education 826, Critique of Educational Literature; and Education 921, Laboratory in Applied Education. There is no thesis requirement for this degree.

The degree of Master of Education is designed for students whose vocational objectives do not call for rigorous training in research procedures but presuppose a background of professional training. The student should seek the advice of the Chairman of the Division of Graduate Studies of the College of Education in determining the suitability of this degree program to his educational purposes.

MASTER OF FINE ARTS. Prerequisite degree: Bachelor of Fine Arts or the equivalent. This degree is offered to majors in Art and in Music. *In Art*, emphasis will be placed on a high degree of technical and artistic accomplishment. The candidate must have a general knowledge of art history and criticism. Upon the recommendation of the staff, a creative project of high quality may be accepted in place of a written thesis. The required time for the completion of the program leading to this degree is from four to six quarters.

In Music, the student may select composition, musicology, or applied music as his or her special field. A written thesis or an acceptable large composition must be presented, besides the regular 40 hours required.

MASTER OF FORESTRY. Prerequisite degree: Bachelor of Science in Forestry or equivalent degree. The minimum requirement for the degree of Master of Forestry is an approved program to include twelve 5-hour courses, or their equivalent (60 hour total), with a residence requirement of four quarters. Candidates for this degree must complete the following sequence of courses for a major: Forestry 831-832-833-834 and Forestry 921, APPLIED FORESTRY PROBLEMS, which is to be restricted to problems of actual forestry practice in the area of management. At least fifteen additional hours must be in fields related to forestry.

MASTER OF LAWS. Prerequisite degree: Bachelor of Laws from an approved school of law of quality indicating that graduate work may be pursued with profit. At least one academic year of full-time study is required, the thesis and not less than one-half of the student's course work being in the general field of law. The program for the degree provides opportunity for the student to specialize in a chosen field or to deepen his knowledge of law generally.

MASTER OF MUSIC EDUCATION. Prerequisite degree: An approved baccalaureate degree. The minimum requirement for the Master of Music Education degree is an approved program of study which includes forty-five quarter hours of course work and ten hours in Applied Problems in Music. At least four quarters of residence will be required. A general musicianship examination must be passed during the last quarter of work.

This degree program is a program of study offered jointly by the faculties of the College of Arts and Sciences and the College of Education.

GENERAL REQUIREMENTS FOR THE MASTER'S DEGREE

1. **ADMISSION TO CANDIDACY.** The conditions governing admission to the Graduate School have been stated. Admission to the Graduate School does not imply that the work taken by the student must be credited toward a degree. Admission to candidacy for a Master of Arts or Master of Science degree in any field is based upon the following requirements:

- A. Approval by the Graduate Faculty of the general undergraduate training of the student as shown by an official transcript of his college work.
- B. Certification by the student's major department that
 - (1) all prerequisites for major and minor courses have been completed,
 - (2) the Graduate Record Examination has been taken and all other requisite preliminary examinations have been passed,
 - (3) foreign language requirements for the desired degree have been met, and
 - (4) the student has demonstrated his ability to do work of graduate character in the field of his choice.

C. The presentation of an outline of his program of study which has the approval of his major professor, the head of his major department, and the Dean of the Graduate School.

D. Approval of the problem and plan of work proposed as a basis for his thesis.

Application for admission to candidacy must be filed with the Dean of the Graduate School before the first day of classes of the final quarter of full residence. Failure of the student to comply with this regulation will in no case be regarded as excusable.

2. PROGRAM. Assuming all prerequisites to have been met, the requirements for a Master of Arts or Master of Science degree in any field are the satisfactory completion of a program of study which consists of courses carrying a minimum credit value of 40 quarter-hours plus the writing of an acceptable thesis. The courses taken must form a major (20 quarter-hours) and two minors (10 quarter-hours each) so chosen as to form a logical whole. All courses included in the major must be taken in one department. Both minors may be taken in departments other than that of the major, and at least one of these *must* be outside the department of the major. The program of study must not include any course that forms a part of the student's program of study for any other degree. It must be approved in advance by the major professor, the head of the department, and the Dean of the Graduate School.

3. THESIS. A thesis required for the master's degree must be based upon primary source materials relating to some problem within the field of the major. It must show independence of judgment and correctness and good taste in the use of English. Due acknowledgment of the work of others must be made, and an accurate bibliography of all literature used must be included. The research of the student and the preparation of his thesis must be under the direction of a member of the Graduate Faculty, who is designated as his major professor. This person is also responsible for the planning of his program of study.

In each department where it is offered, the thesis carries the number 930 and it may carry from 5 to 50 quarter hours of credit, depending upon the amount of work devoted to it by the student. This credit must be in addition to the regular course credit requirement of forty (40) hours for the master's degree.

The thesis must be written, approved by the major professor, and placed in the hands of the Dean of the Graduate School at least *three weeks* before the date of graduation. Two bound copies of the thesis must be deposited with the University Library and one bound copy with the student's major department before the degree is granted. These copies must contain the written approval of the major professor, the members of the final reading committee, and the Dean of the Graduate School.

Information concerning the form to be followed in the writing of the thesis may be secured from the office of the Dean of the Graduate School.

4. REQUIRED STANDING. An average of B+ must be maintained in all

courses used to satisfy degree requirements, and no grade below C will be allowed.

5. **LANGUAGE REQUIREMENTS.** All candidates for graduate degrees are expected to show correctness and good taste in their use of English, both written and oral. A reading knowledge of French or German is required of all candidates for the degrees of Master of Arts, Master of Science, Master of Science in Business Administration, Master of Science in Pharmacy, Master of Fine Arts, and Master of Arts in Journalism. Upon the recommendation of the major professor, Spanish or Italian may be used to fulfill the language requirement for the Master of Arts, Master of Science in Business Administration, Master of Arts in Journalism, and Master of Fine Arts degrees. A reading knowledge of both French and German is required of candidates of Master of Science in Chemistry.

6. **EXAMINATIONS.** In addition to all examinations required for admission to candidacy and all written examinations in the courses taken, the candidate must pass an oral examination covering graduate major, minors, and thesis. This examination is conducted by a committee consisting of the major professor and four other members of the faculty appointed by the Dean of the Graduate School. This examination is open to any member of the faculty who may desire to attend.

7. **RESIDENCE.** The minimum residence requirement for the master's degree is one academic year, or three full quarters.

8. **TIME LIMIT.** All work credited toward the master's degree must be completed within six years.

9. **GRADUATE WORK TRANSFERRED.** Credit may be given for work done in a graduate school of good standing when proper credentials have been presented. Such credit, however, will not exceed one minor, or ten quarter-hours, and will not decrease the residence requirement to less than thirty-three weeks for the Master of Education degree and thirty weeks for all other master's degrees.

10. **EXTENSION AND CORRESPONDENCE.** No work done in extension or by correspondence will be credited toward the master's degree.

11. **APPLICATION FOR GRADUATION.** The candidate for a master's degree must file with the Dean of the Graduate School an application for graduation. This application must be filed at the beginning of the quarter in which the candidate expects to be graduated. It must be accompanied by a receipt showing that the candidate has paid his diploma fee of \$10.

12. **ATTENDANCE UPON GRADUATION EXERCISES.** A candidate for a degree, unless excused in writing by the Secretary of the Faculty, must attend the graduation exercises at which he expects a degree to be conferred upon him.

DOCTOR OF PHILOSOPHY

The University has established this degree for the purpose of providing properly qualified students with the opportunity to pursue research and other scholarly activity beyond the point that is possible in programs for the

master's degree. At present, opportunity for such advanced graduate work is provided in only mathematics and zoology. Other fields will be added from time to time as conditions seem to justify it. An applicant who is looking forward to work at this level should communicate with the Dean of the Graduate School in advance with reference to the possibility of pursuing work in the field of his choice.

This degree will not be granted upon the completion of any definite amount of work prescribed in advance. It will be granted in recognition of proficiency in research, breadth and soundness of scholarship, and thorough acquaintance with a specific field of knowledge. Evidence of such attainment must be demonstrated through the presentation of an acceptable thesis based upon independent research and through the satisfactory passing of such written and oral examinations as may be prescribed.

ADMISSION TO ADVANCED GRADUATE STUDY. A student will be permitted to register for advanced graduate courses or undertake research, provided the Graduate Faculty is satisfied that he is a person of proper attainment and promise and provided the desired courses can be adequately given or the research adequately supported and directed. No course taken or other work done will be credited toward the Doctor of Philosophy degree until the applicant has been formally admitted to candidacy for that degree.

ADVISORY COMMITTEE. When a student signifies his desire to work toward the Doctor of Philosophy degree, the Dean of the Graduate School will appoint a committee of three to act as his advisers for the period of his study. The members of this committee will assist him in outlining his program, in choosing a subject for his dissertation, and in all other matters connected with his studies. The chairman of this committee will be his major professor.

RESIDENCE. The degree cannot be secured through summer work alone. At least three consecutive quarters must be spent in resident study on this campus. If the student holds a part-time assistantship or has other part-time duties, the residence requirement will be increased sufficiently to provide equivalence to three quarters of full-time study in residence.

MAJORS AND MINORS. The program of course work of the candidate should be submitted during the first year of his work as a prospective candidate for the Ph.D. degree and must include a major, and at least one minor outside the field of the major. This program will require for its satisfactory completion at least three years of study. All requirements for the degree, except the thesis and the final oral examination, must be completed within a period of six years. This minimum time requirement is figured from the date of admission of the student as a prospective candidate for the Ph.D. degree.

PRELIMINARY EXAMINATION. The satisfactory passing of a formal preliminary examination is required of the student before *admission to candidacy*.

FOREIGN LANGUAGES. A reading knowledge of French and German will be required of each candidate for the Doctor of Philosophy degree. This requirement must be satisfied before the student is admitted to formal candidacy for the degree.

ADMISSION TO CANDIDACY. A student may be admitted to candidacy for the degree of Doctor of Philosophy upon (1) approval by the Graduate Faculty of his background training as represented by official transcripts and other evidence; (2) certification by the student's major department that all prerequisite and supporting courses for the major and minors have been completed, all required preliminary examinations have been passed, foreign language requirements have been met, and the student has demonstrated scholarship of a high character, independence of thought and ability in productive work; and (3) the presentation of a program of study and research which has the approval of his Advisory Committee, his major department, and the Dean of the Graduate School. Admission to candidacy must be upon formal application filed with the Dean of the Graduate School not later than one academic year before the proposed date of graduation.

No member of the faculty of the University of Georgia above the rank of Instructor may become a candidate for a doctor's degree at the University.

DISSERTATION. Each candidate for the doctorate must present a dissertation, or thesis, on some subject connected with his major field of study. The dissertation must give evidence of originality in research, independent thinking, scholarly ability, and technical mastery of some field. Its conclusions must be logical, its literary form must be good, and its contribution to knowledge should merit publication. In general, the dissertation will require the equivalent of at least one year in its preparation.

At least four weeks before the time of the student's graduation, three typewritten copies of the dissertation, together with an abstract not exceeding 1,500 words, must be filed with the Dean of the Graduate School for the use of the examining committee. When the dissertation has been finally approved, three bound typewritten copies must be handed to the Dean of the Graduate School—two for the Library and one for the Department. Each copy must have a certificate of approval signed by the major professor, the members of the examining committee, and the dean.

One hundred and fifty copies of the published dissertation, or approved portions thereof, must be presented to the University. In case it is not practicable to publish before graduation, the candidate must deposit fifty dollars with the Treasurer of the University to insure publication. This amount will be refunded in case the dissertation is published within three years after the degree is conferred.

FINAL EXAMINATION. When the professors in charge of a candidate's program and dissertation report that the dissertation has been accepted and that all other requirements of his program have been successfully completed, the candidate will be given an oral examination upon the dissertation and the general field of the major and minor subjects.

DOCTOR OF EDUCATION

REQUIREMENTS. In general, the requirements for the Doctor of Education degree are the same as those for the degree of Doctor of Philosophy. In exceptional cases, however, some modification of the foreign language re-

quirement may be allowed where conditions seem to justify it. Any such modification must have the specific approval of the Executive Committee of the Graduate Faculty. The Graduate Faculty may, in individual cases, also make such modification of the residence requirement as seems necessary to meet the need for approved field work.

The dissertation required for the degree of Doctor of Education will emphasize the intelligent application of research techniques to the solution of a problem connected with educational practice, and it is the most important single requirement for the degree. It is intended to show the candidate's ability to conduct an independent investigation based upon source materials growing out of practical educational problems in his field. The subject chosen must be definite and of limited range, the method of investigation must be formulated with exactness, the sources that are employed must be properly evaluated, and the conclusions must be well supported.

Candidates for this degree must have the personal qualities necessary for success in their profession, must have had a *broad background of training*, and must have had at least two years of successful experience in the teaching profession. A candidate who is securing training for administration should include a minor in the social sciences; one who is training for teaching should have a minor in the subject matter field in which he proposes to teach.

The Graduate School will admit to candidacy for this degree only those students who give promise of the power to do original and creative work on educational problems of major and lasting significance.

FELLOWSHIPS, ASSISTANTSHIPS, AND SCHOLARSHIPS

A limited number of qualified graduates may be given financial assistance in the form of fellowships or assistantships while pursuing advanced work leading to higher degrees. The recipients of such aid are expected to render certain services to the University. It is expected that holders of fellowships or assistantships will not engage in any other employment for remuneration.

Application blanks and information on all fellowships, assistantships, and scholarships may be obtained from the Dean of the Graduate School.

Applications must be filed not later than the first day of March preceding the academic year in which the student expects to register in the Graduate School.

FELLOWSHIPS. Graduate fellows are selected by the faculty of the Graduate School on a basis of merit and with due consideration of the opportunity which the University is in position to afford them. They must be registered in the Graduate School and their work toward the advanced degree must at all times be of satisfactory character.

Persons holding fellowships are expected to assist faculty members in their major departments to an extent not exceeding six hours per week.

They will not be placed in charge of organized class work or laboratories, and they will be permitted to carry a full load of study. The fellowship carries a stipend of \$800 per year.

Students who desire to apply for graduate fellowships should present their applications to the Dean of the Graduate School directly, or through the department in which they propose to take major work.

ASSISTANTSHIPS. Graduate assistantships are classified in two groups depending upon the amount of assistance that the student is expected to render. The third-time assistantship carries a stipend of \$1000.00, and the fourth-time assistantship carries a stipend of \$800.00 per year. The assistant will be expected to assist with the work of his major department, but he will not be placed in charge of classes or laboratories. The third-time assistant will be limited to ten hours of academic work each quarter, and the fourth-time assistant will be limited to twelve to thirteen hours.

Graduate assistantships are assigned by departments. Applications for such assistantships should be made directly to the department in which the student expects to take his major work.

RESEARCH ASSISTANTSHIPS. A limited number of research assistantships are open to graduate students who are qualified to assist faculty members in their research. The stipends carried by these assistantships vary in amount on a basis of the technical experience of the assistant and the work required of him. Applications for these assistantships should be filed with the department in which the student proposes to work. The head of this department will transmit the application to the Dean of the Graduate School with the departmental recommendation.

The amount of graduate work that may be carried by the research assistant will depend upon the amount of work required of him under his assistantship. If a third of his time is required, he may carry two 5-hour courses for graduate credit. If as much as two-thirds of his time is required in the work of his assistantship, he will be permitted to carry only one 5-hour course.

TEACHING ASSISTANTSHIPS. The University provides a few teaching assistantships that are open to students who hold the master's degree or its equivalent. The assistantships carry stipends ranging from \$600 to \$1,200 per year, depending upon the experience and the amount of teaching required of the assistant. The Dean of the Graduate School will be glad to refer to the proper department any applications for teaching assistantships.

The amount of graduate work that may be carried by the teaching assistant will depend upon the amount of teaching required of him. If his teaching load is as much as five hours, he will be permitted to carry only two 5-hour graduate courses. Increase of his teaching load beyond that point will result in a corresponding decrease in the amount of graduate work which he may take.

PHELPS-STOKES GRADUATE SCHOLARSHIP. Miss Caroline Phelps-Stokes has given to the University the sum of \$12,500 with the stipulation that the income is to be awarded annually as a graduate scholarship. The holder of this

scholarship must pursue studies under the direction of one of the following departments: economics, education, history, or sociology. He must make a scientific study of the Negro and his adjustment to American civilization. The value of this scholarship at present is \$500 a year out of which the student must pay the usual matriculation fee and such additional fees as are regularly required.

HENRY L. RICHMOND GRADUATE SCHOLARSHIP. Mrs. Henry L. Richmond of Savannah has given the University a fund of \$25,000. A portion of the income from this fund is used to provide scholarships in the Department of Chemistry. One or more scholarships of \$500 each are available each year.

MARTIN REYNOLDS SMITH FUND. By the gift of \$2,000, Mr. J. Warren Smith has established this fund in memory of his son, Martin Reynolds Smith. The interest from this investment is to be used as prizes for excellence in research in chemistry.

WILDLIFE CONSERVATION FELLOWSHIPS. Through the State Game and Fish Commission, special fellowships are available to majors in Biology for graduate work in vertebrate ecology. The theses of students holding these fellowships will be directed toward problems in fisheries biology and wild life conservation.

RESEARCH PROGRAM AT THE OAK RIDGE INSTITUTE OF NUCLEAR STUDIES

The University of Georgia is one of the Sponsoring Universities of the Oak Ridge Institute of Nuclear Studies located at Oak Ridge, Tennessee. Through this cooperative association with the Institute, our Graduate School has at its disposal the facilities of the National Laboratories in Oak Ridge and of the research staffs of these laboratories. When the masters' or doctoral candidate has completed his resident work here, it is possible, by special arrangement for him to go to Oak Ridge to do his research problem and prepare his thesis. Such transfer of the student to the Oak Ridge National Laboratories must be initiated through the recommendation of his major professor, and the thesis done there must be recommended by him for acceptance here.

Students may go to Oak Ridge on Oak Ridge Graduate Fellowships which have varying stipends determined by the number of dependents they have and the level of work that they are doing.

A copy of the Bulletin and Announcement of the Graduate Training Program of the Oak Ridge Institute of Nuclear Studies is available in the office of the Dean of the Graduate School. Should you be interested, ask for this Bulletin at his office. If you prefer, you may request a Bulletin by writing to the Chairman of the University Relations Division of the Oak Ridge Institute of Nuclear Studies, Box 117, Oak Ridge, Tennessee.

All arrangements for these fellowships will be made between the Dean of the Graduate School and the Institute.

In addition to the possibilities that are open to the students members of

our faculty may also be accepted for research appointments, usually not less than three months in duration, in the Oak Ridge National Laboratories. These appointments carry stipends commensurate with those which the staff members would receive here. Through the Oak Ridge Institute, therefore, both our staff and our students are enabled to keep abreast of the most modern developments in atomic and nuclear research.

EXPENSES

Residents of Georgia pay a fee of \$180.00 per academic year of three quarters, payable \$60.00 at the beginning of each quarter. Non-residents pay an additional amount of \$100 per quarter. Room, board and laundry will vary from \$145 to \$160 per quarter. Books may be estimated at \$45 per year. The total estimated expenses will be about \$700 to \$850 per year.

All students are required to take the Graduate Record Examination before they are admitted to candidacy for a graduate degree. The fee for students taking this examination under the Institutional Plan (scheduled for regularly enrolled students) is \$3.00. For students taking the examination under the Independent Plan (scheduled primarily for undergraduates and others anticipating graduate work at some other institution) the fee is \$10.00.

Candidates for the master's degree must pay a \$10.00 diploma fee at the beginning of the quarter of graduation. A student must register for the thesis and pay the regular fee for one 5-hour course.

A candidate for the doctor's degree must pay a \$25.00 diploma fee at least ten days before graduation. This fee covers cost of both the diploma and the hood. One who has completed his course and is registered for the doctor's dissertation only must pay a fee of at least \$15 per quarter, the exact amount of the fee to be fixed by his advisory committee.

THE FRANKLIN COLLEGE OF ARTS AND SCIENCES

SIDNEY WALTER MARTIN, A.B., M.A., Ph.D., *Dean.*

PAULINE MARTIN HENRY, A.B., *Assistant to the Dean.*

JOYCE ANNETTE HARDY, *Secretary.*

JULES CESAR ALCIATORE, A.B., A.M., Ph.D., *Professor of French.*

JAMES WAGNER ALEXANDER, A.B., M.A., Ph.D., *Associate Professor of Classics
and Head of the Department of Classics.*

JOHN FLETCHER ALLUMS, B.S., M.A., Ph.D., *Associate Professor of Political
Science.*

EULALA L. AMOS, B.S.Ed., M.A., *Assistant Professor of Art.*

JOHN HILMER ANDERSON, B.M., M.M., *Assistant Professor of Music.*

ROGER FABIAN ANDERSON, B.S., M.S., Ph.D., *Assistant Professor of Entomology.*

MARY JANE APPLEBY, A.B., *Instructor in English.*

JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Associate Professor of Political
Science and Dean of Student Affairs.*

ROBERT HYMAN AYERS, A.B., B.D., *Assistant Professor of Religion, Acting
Head of the Department of Religion, and University Chaplain.*

WESLEY BAILEY, A.B., M.S., *Assistant Professor of Chemistry.*

LEIGHTON MILTON BALLEW, B.S., M.A., *Associate Professor of Drama and Head
of the Department of Drama.*

DAVID FRANCIS BARROW, A.B., B.S.C.E., M.A., Ph.D., *Professor of Mathematics.*

EDWARD EARL BEACH, B.S.M., M.A., *Associate Professor of Music.*

CHARLES ALLEN BEAUMONT, A.B., *Instructor in English.*

EDWIN GOTTLIEB BECK, B.S., M.A., Ph.D., *Associate Professor of Botany.*

*THEODORE TOULON BECK, A.B., M.A., *Associate Professor of Modern Foreign
Languages.*

WIGHTMAN SAMUEL BECKWITH, A.B., M.A., *Associate Professor of Mathematics.*

CAROLINE BURNEY BENNETT, A.B., M.A., *Instructor in English.*

ROBERT EDWARD BICKNER, B.A., M.A., *Instructor in Economics.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Professor of Economics and Dean
of Faculties.*

EDWIN KINGSLEY BLANCHARD, B.M., M.M., *Assistant Professor of Music.*

*On leave.

- ARTHUR GIBBON BOVEE, Ph.B., Certificat de l'Association Phonetique Internationale, *Professor of the Teaching of French.*
- GEORGE HUGH BOYD, A.B., M.S., Sc.D., *Professor of Zoology, Head of the Department of Biology, Chairman of the Division of Biological Sciences, and Dean of the Graduate School.*
- FRANCES HOFF BRANDON, A.B., M.A., *Assistant Professor of History.*
- ERWIN MILLARD BREITHAUP, B.F.A., M.A., *Assistant Professor of Art.*
- CHARLES JOSEPH BROCKMAN, A.B., Ch.E., M.A., Ph.D., *Professor of Chemistry.*
- ROBERT PRESTON BROOKS, A.B., Ph.D., *Professor of Economics and Emeritus Dean of Faculties.*
- CALVIN SMITH BROWN, A.B., B.A.(Oxol.), M.A., Ph.D., *Professor of English.*
- SIBYL BROWNE, A.B., B.S., M.A., *Associate Professor of Art.*
- ANNE WALLIS BRUMBY, A.B., M.A., *Associate Professor Emeritus of French.*
- JAMES HERBERT BURKHALTER, A.B., M.S., Ph.D., *Assistant Professor of Physics.*
- WALTER CLINTON BURKHART, B.S., D.V.M., *Professor of Bacteriology.*
- ELON EUGENE BYRD, B.S., M.S., Ph.D., *Professor of Zoology.*
- HARMON ELDRED CALKINS, A.B., M.S., Ph.D., *Assistant Professor of Bacteriology.*
- IRIS CALLAWAY, B.S., M.A., *Associate Professor Emeritus of Mathematics.*
- PAUL ALFRED CAMP, B.A., M.A., *Associate Professor of Drama.*
- WILLIAM MARION CARLTON, A.B., M.S., Ph.D., *Assistant Professor of Botany.*
- ROLLIN CHAMBLISS, A.B., M.A., Ph.D., *Professor of Sociology.*
- CLAUDE CHANCE, A.B., M.A., *Professor of French.*
- HOWARD TEMPLETON COGGIN, A.B., M.S., Ph.D., *Associate Professor of Chemistry and Adviser to Pre-Medical Students.*
- ALONZO CLIFFORD COHEN, B.S., M.S., M.A., Ph.D., *Associate Professor of Mathematics.*
- MORRIS WILLIAM HOLLOWELL COLLINS, JR., B.A., M.A., *Assistant Professor of Political Science.*
- GEORGE MACFEELY CONWELL, A.B., A.M., Ph.D., *Associate Professor of Mathematics.*
- CHARLES DEWEY COOPER, B.S., M.A., Ph.D., *Assistant Professor of Physics.*
- ELLIS MERTON COULTER, A.B., A.M., Ph.D., Litt.D., *Regents' Professor of History, Head of the Department of History, and Chairman of the Division of Social Sciences.*
- JOHN LEE COX, JR., A.B., *Instructor in English.*
- WILLIAM WALLACE DAVIDSON, A.B., M.A., *Associate Professor of English.*
- WILLIAM COLUMBUS DAVIS, JR., A.B., M.A., Ph.D., *Assistant Professor of History.*

- KATHERINE IMOGENE DEAN, B.S., M.Ed., *Instructor in Sociology.*
- CLEMENS DEBAILLOU, Bakkalaureus, Certificates in Landwirtschaft, Finanz und Handel, *Assistant Professor of German.*
- VINCENT JEAN DIEBALL, B.F.A., *Instructor in Art.*
- ELLIS HOWARD DIXON, A.B., M.S., Ph.D., *Professor of Physics and Astronomy and Head of the Department of Physics and Astronomy.*
- LAMAR DODD, L.H.D., *Regents' Professor of Art and Head of the Department of Art.*
- WILLIAM CLARK DOSTER, A.B., M.A., *Instructor in English.*
- JOHN AYMAN DOWNS, A.B., M.A., Ph.D., *Professor of French.*
- MARION DERBELLE DUBOSE, A.B., M.A., *Professor Emeritus of German.*
- MARIE FRANCES DUMAS, A.B., M.A., *Associate Professor of English and Coordinator of Freshman English.*
- NOLEE MAY DUNAWAY, A.B., *Instructor in Music.*
- WILBUR HOWARD DUNCAN, A.B., M.A., Ph.D., *Associate Professor of Botany.*
- PATRICK DUVAL, B.Sc., Ph.D., *Professor of Mathematics.*
- AUSTIN SOUTHWICK EDWARDS, B.S., M.A., Ph.D., *Professor of Psychology and Acting Head of the Department of Psychology.*
- JOHN OLIN EIDSON, A.B., M.A., Ph.D., *Professor of English, Director of the Coordinate Campus, and Editor of "The Georgia Review."*
- EDWIN MALLARD EVERETT, A.B., M.A., Ph.D., *Professor of English, Head of the Department of English, and Chairman of the Division of Language and Literature.*
- TOMLINSON FORT, A.B., A.M., Ph.D., *Regents' Professor of Mathematics and Head of the Department of Mathematics.*
- *REUBEN JACKSON GAMBRELL, A.B., M.F.A., *Assistant Professor of Art.*
- JAMES EDWARD GATES, B.S., Ph.D., *Professor of Economics and Dean of the College of Business Administration.*
- RUBIN GOTESKY, B.S., M.A., Ph.D., *Associate Professor of Philosophy.*
- GUNBORG BERGLUND GRAY, B.A., M.A., Ph.D., *Temporary Part-time Assistant Professor of Speech.*
- JOHN STANLEY GRAY, A.B., A.M., Ph.D., *Professor of Psychology.*
- MARION HALL, B.S., M.A., *Assistant Professor of Modern Foreign Languages.*
- CLARA EDDY HAMILTON, B.S., M.A., Ph.D., *Assistant Professor of Zoology.*
- ROBERT IVY HARRISON, B.F.A., *Juilliard Graduate School, Part-time Associate Professor of Music.*
- JOHN FRASER HART, A.B., M.A., Ph.D., *Assistant Professor of Geography and Geology.*

*On leave.

- LINVILLE LAURENTINE HENDREN, A.B., M.A., Ph.D., *Professor Emeritus of Physics and Astronomy and Emeritus Dean of Faculties.*
- ROBERT GILBERT HENRY, A.B., M.S., *Associate Professor of Physics and Astronomy.*
- POPE RUSSELL HILL, B.S.A., M.S., *Associate Professor of Mathematics.*
- HUGH HODGSON, B.S., *Regents' Professor of Music, Head of the Department of Music, and Chairman of the Division of Fine Arts.*
- ROBERTA HODGSON, A.B., M.A., *Instructor Emeritus in History and Political Science.*
- ANNIE MAY HOLLIDAY, B.S., *Associate Professor of Art.*
- GERALD BOONE HUFF, B.A., M.A., Ph.D., *Professor of Mathematics.*
- *LAWRENCE HUFF, A.B., M.A., *Instructor in English.*
- *MELVIN CLYDE HUGHES, A.B., M.A., Ph.D., *Associate Professor of Political Science.*
- GEORGE ALEXANDER HUTCHINSON, A.B., M.A., Ph.D., *Professor Emeritus of Sociology.*
- DONALD LEROY JACOBS, A.B., M.S., Ph.D., *Assistant Professor of Botany.*
- WILLIAM THOMAS JAMES, B.S., Ph.D., *Professor of Psychology.*
- EDVARD ARTHUR JOHNSON, B.F.A., *Assistant Professor of Art.*
- WILBUR DEVEREUX JONES, A.B., A.M., Ph.D., *Instructor in History.*
- HOWARD SHELDON JORDAN, B.A., M.A., Ph.D., *Professor of French and Head of the Department of Modern Foreign Languages.*
- ARTHUR KAPLAN, A.B., M.A., Ph.D., *Assistant Professor of Classics.*
- DESPY (SKOURLAS) KARLAS, B.A., Juilliard Graduate School, *Assistant Professor of Music.*
- ARTHUR RANDOLPH KELLY, A.B., M.A., Ph.D., *Associate Professor of Anthropology and Archaeology and Head of the Department of Anthropology and Archaeology.*
- LUCILE KIMBLE, A.B., *Associate Professor of Music.*
- IRWIN CLARK KITCHIN, B.S., Ph.D., *Associate Professor of Biology.*
- FREDERICK EDWARD KOPP, B.A., M.A., *Associate Professor of Music.*
- RUDOLPH KRATINA, *Part-time Associate Professor of Music.*
- JAMES FREDERICK LAHEY, Ph.B., M.A., *Assistant Professor of Geography and Geology.*
- ROBERT JULES LEVIT, B.S., M.S., Ph.D., *Associate Professor of Mathematics.*
- ROBERT LORENZ, M.A., Ph.D., *Associate Professor of Economics.*
- RICHARD MACK LOWREY, B.S., M.S., *Instructor in Physics.*

*On leave.

- HOBACE ODIN LUND, B.A., M.S., Ph.D., *Professor of Entomology and Chairman of the Department of Biology.*
- EARL STUART McCUTCHEEN, B.F.A., M.A., *Assistant Professor of Art.*
- CHALMERS ALEXANDER McMAHAN, B.S., M.A., Ph.D., *Associate Professor of Sociology.*
- JOHN HANSON THOMAS MCPHERSON, A.B., Ph.D., *Professor Emeritus of History and Political Science.*
- ELEN RHODES MCWHORTER, A.B., M.A., *Associate Professor of English.*
- HEZZIE BOYD MCWHORTER, B.S., M.A., *Instructor in English.*
- **ROBERT LIGON MCWHORTER, A.B., M.A., *Professor Emeritus of Latin and Classics.*
- JAMES HENRY MADDEN, B.F.A., M.F.A., *Assistant Professor of Art.*
- EUGENE PENNINGTON MALLARY, B.L., LL.B., M.A., *Associate Professor Emeritus of Philosophy.*
- JAMES EDWIN MARTIN, A.B., M.S., *Instructor in Physics.*
- SIDNEY WALTER MARTIN, A.B., M.A., Ph.D., *Professor of History and Dean of the College of Arts and Sciences.*
- EUGENE MATHER, B.A., M.S., *Assistant Professor of Geography and Geology.*
- JOHN CASSIUS MEADOWS, A.B., M.A., Ph.D., *Professor of Sociology.*
- JAMES HARRIS MITCHELL, B.A., *Associate Professor of Music and Adviser to B.F.A. Students.*
- HOBACE MONTGOMERY, A.B., A.M., Ph.D., *Associate Professor of History and Adviser to A.B. Students.*
- JOHN MORRIS, A.B., M.A., B.L., *Professor Emeritus of German.*
- JOHN WILLIAM NUTTYCOMBE, B.S.Chem., Ph.D., *Professor of Zoology.*
- EUGENE PLEASANTS ODUM, A.B., M.A., Ph.D., *Associate Professor of Zoology.*
- ROBERT TRAVIS OSBORNE, A.B., M.S., M.Ed., Ph.D., *Assistant Professor of Psychology and Director of the Veterans Guidance Center.*
- ANNE OLIVIA PALMOUR, A.B., M.A., *Instructor in English.*
- ELDON JOSEPH PARIZEK, B.A., M.S., Ph.D., *Assistant Professor of Geography and Geology.*
- EDD WINFIELD PARKS, A.B., A.M., Ph.D., *Professor of English.*
- JOHNNIE INEZ PETERSON, A.B., M.A., *Instructor in Spanish.*
- GEORGE SPIRO PETRAS, B.S., A.M., *Instructor in Economics.*
- PAUL EUGENE PFUETZE, B.S., M.A., B.D., *Professor of Philosophy and Head of the Department of Philosophy.*
- GEORGE EDWIN PHILBROOK, B.S., M.S., Ph.D., *Assistant Professor of Chemistry.*
- JAMES EDWIN POPOVICH, B.A., M.A., *Assistant Professor of Drama.*

**Died June 28, 1950.

- MEBBITT BLOODWORTH POUND, A.B., A.M., Ph.D., *Professor of Political Science and Head of the Department of Political Science.*
- HELEN GLENN POWELL, B.S., M.A., *Temporary Part-time Instructor in Psychology.*
- MERLE CHARLES PRUNTY, JR., B.S., A.B., A.M., Ph.D., *Professor of Geography and Geology and Head of the Department of Geography and Geology.*
- WILLARD EDGAR ALLEN RANGE, A.B., M.A., *Assistant Professor of Political Science.*
- WILEY DEVERE SANDERSON, JR., B.F.A., M.F.A., *Assistant Professor of Art.*
- ALBERT BERRY SAYE, A.B., M.A., Ph.D., *Professor of Political Science.*
- HENRY WILLIAM SCHOENBORN, A.B., Ph.D., *Associate Professor of Zoology.*
- ALFRED WITHERSPOON SCOTT, B.S., Ph.D., *Terrell Professor of Chemistry, Head of the Department of Chemistry, Chairman of the Division of Physical Sciences, and Faculty Chairman of Athletics.*
- DONALD CHARLES SCOTT, B.S., Ph.D., *Assistant Professor of Biology.*
- WILLIAM CLIFTON SEARS, B.A., M.S., Ph.D., *Associate Professor of Physics.*
- GREGOR SEBBA, Dr. of Pol. Sci., Dr. of Law, *Professor of Economics.*
- ROBERT TAYLOR SEGREST, B.S.C., M.S.C., *Professor of Economics and Associate Dean of the College of Business Administration.*
- EDWARD SCOTT SELL, B.S.A., M.S.A., *Professor Emeritus of Geography.*
- EZRA LEE SELLERS, B.F.A., *Assistant Professor of Art.*
- KARL EASTMAN SHEDD, A.B., M.A., Ph.D., *Professor of Spanish.*
- CLARENCE JAY SMITH, JR., A.B., M.A., *Instructor in History.*
- HOWARD ROSS SMITH, A.B., M.S., Ph.D., *Professor of Economics.*
- JENNIE BELLE SMITH, B.M., *Associate Professor of Music and Supervisor of Music in the Demonstration School.*
- THOMAS HUDSON SMITH, B.S., M.Ed., *Instructor in Chemistry.*
- CHARLES RAYMOND SPELL, B.A., M.S., *Assistant Professor of Chemistry.*
- HUGH SMILEY STANLEY, A.B., A.M., *Assistant Professor of Mathematics.*
- ROSWELL POWELL STEPHENS, A.B., Ph.D., *Professor Emeritus of Mathematics and Dean Emeritus of the Graduate School.*
- EMELIZA SWAIN, A.B., M.S.Ed., *Part-time Asssitant Professor of Psychology.*
- WILLIAM TATE, A.B., A.M., *Associate Professor of English and Dean of Men.*
- ANDREW EZELL TERRY, Ph.B., M.A., Ph.D., *Professor of German.*
- HOWARD WILBUR THOMAS, *Professor of Art.*
- CLARA MILDRED THOMPSON, A.B., A.M., LL.D., Ph.D., *Professor of History.*
- ANN THOENTON, A.B., M.A., *Instructor in English.*
- STELLA MAY TILLEY, A.B., M.A., *Instructor in English.*
- *JOHN LAURENS TISON, JR., B.A., M.A., *Assistant Professor of English.*

DANIEL JANSE VAN ANTWERP, B.S., *Instructor in Chemistry.*

CAROLYN VANCE, A.B., M.A., *Assistant Professor of Speech.*

JOHN CHALMERS VINSON, A.B., M.A., M.F.A., Ph.D., *Assistant Professor of History.*

ROOSEVELT PRUYN WALKER, A.B., M.A., *Professor of English.*

*CHARLES AUGUSTUS WALL, JR., Ph.B., M.A., *Assistant Professor of English.*

FRANCES LOUISE WALLIS, A.B., M.A., *Assistant Professor of English.*

ANTONIO JOHNSTON WARING, JR., B.A., M.D., *Research Associate in Anthropology and Archaeology.*

BYRON HILBUN WARNER, B.S., *Associate Professor of Music.*

FERDINAND EARL WARREN, *Visiting Professor of Art.*

HAROLD GEORGE WESCOTT, B.E., M.A., *Associate Professor of Art.*

ROBERT HUNTER WEST, A.B., A.M., Ph.D., *Professor of English.*

JONATHAN JACKSON WESTFALL, B.S., M.S., Ph.D., *Professor of Botany and Head of the Department of Botany.*

THOMAS HILLYER WHITEHEAD, B.S., M.A., Ph.D., *Professor of Chemistry.*

CECIL NORTON WILDER, B.S.A., M.S.A., *Associate Professor of Agricultural Chemistry.*

BARNETT OSBORNE WILLIAMS, B.S., M.A., Ph.D., *Professor of Sociology and Head of the Department of Sociology.*

JOHN DOWELL WILLIAMS, A.B., M.A., Ph.D., *Associate Professor of Spanish.*

CHARLES CHRISTOPHER WILSON, B.S., M.A., Ph.D., *Associate Professor of Botany.*

ANNIE VIRGIL WOMACK, B.F.A., M.A., *Assistant Professor of Modern Foreign Languages.*

VIRGINIA LORAIN WOOD, A.B., M.A., Ph.D., *Assistant Professor of Political Science.*

FLORENE YOUNG, A.B., M.A., Ph.D., *Professor of Psychology.*

MAY ZEIGLER, A.B., M.A., *Associate Professor of Psychology.*

WILBUR ZELINSKY, B.A., M.A., *Assistant Professor of Geography and Geology.*

OMER CLYDE ADERHOLD, B.S.A., M.S., Ph.D., *President of the University.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Dean of Faculties.*

JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Dean of Student Affairs.*

WALTER NEWMAN DANNER, JR., B.S.A.E., M.S.A., *Registrar and Director of Admissions.*

JOHN DIXON BOLTON, C.P.A., *Comptroller and Treasurer.*

*On leave.

SPECIAL LECTURERS, DEPARTMENT OF ART*

JOSEPH BOLINSKY, *Sculptor*

RALPH FANNING, *Art Historian*

SUE FULLER, *Artist*

VIKTOR LOWENFELD, *Art Educator and Author*

ALVIN LUSTIG, *Interior Designer*

CHANDLER MONTGOMERY, *Art Educator and Industrial Designer*

HOYT SHERMAN, *Research Professor of Art*

JAMES JOHNSON SWEENEY, *Art Critic and Author*

WILLIAM ZORACH, *Sculptor*

*This is a partial list of visiting artists and lecturers for the 1950-51 academic year.

ORGANIZATION

The object of the College of Arts and Sciences is to offer to its students a liberal education. It strives to develop in the individual a resourcefulness that will enable him to adapt himself to changing conditions and circumstances and to grapple intelligently with the problems the future is certain to bring. It also attempts to give the student an opportunity to concentrate in certain fields of study that may be helpful in laying a foundation for various professional pursuits.

CURRICULUM

The curricula of the College of Arts and Sciences for the freshman and sophomore years, except for a few elective courses, are fairly uniform and required of all students. In the junior and senior years concentration in one or more of several fields of study is required. These fields of concentration are as follows:

DIVISION OF LANGUAGE AND LITERATURE: the departments of Classics, English, and Modern Foreign Languages.

DIVISION OF SOCIAL SCIENCES: the departments of Anthropology and Archaeology, Economics, Geography, History, Philosophy, Political Science, Religion, and Sociology.

DIVISION OF PHYSICAL SCIENCES: the departments of Chemistry, Mathematics, Geology, and Physics and Astronomy.

DIVISION OF BIOLOGICAL SCIENCES: the departments of Biology, Botany, and Psychology.

DIVISION OF FINE ARTS: the departments of Art, Music, and Speech and Drama.

The degrees offered in the College are:

BACHELOR OF ARTS, for which the major division must be Language and Literature, Social Sciences, Biological Sciences, Physical Sciences, Art, or Music.

BACHELOR OF SCIENCE, for which the major division must be Physical Sciences or Biological Sciences.

BACHELOR OF SCIENCE IN CHEMISTRY, for which the major subject must be Chemistry.

BACHELOR OF FINE ARTS, for which the major division must be Fine Arts.

BACHELOR OF SCIENCE IN NURSING EDUCATION.

ACADEMIC ADVISERS

When an undergraduate student initially registers in the College of Arts and Sciences he is assigned to a faculty member who serves as his academic adviser during his first two years. This assignment is made on the basis of the expressed academic interests of the student. The academic adviser assists the student in registration, and is available during his office hours for counseling with the student about his study methods, his progress, his

plans and purposes, and any other matters pertaining to his academic progress. He will hold required conferences with students who demonstrate unusual ability or unsatisfactory results. He will advise sophomores on the choice of their fields of concentration and refer them to the appropriate departmental heads for the preparation of senior college sequences.

SELECTING MAJOR

On or before registering for the junior year the student must select the degree for which he is a candidate, the division in which he will take his major work, and the subject in this division in which he expects to major. The professor in charge of the student's major subject is known as the student's major professor and all courses constituting the student's major division program (both required and elective courses) must be approved by this adviser. When approved by the dean of the College of Arts and Sciences this program becomes a requirement for the degree. All approvals to be official must be in writing and filed in the Registrar's records.

ELECTIVE COURSES

In all degrees in the College of Arts and Sciences all courses in the University carrying credit of three or more quarter hours are open as electives to the extent allowed by the degree requirements when approved by the student's major professor and his dean. Not more than fifteen hours credit will be allowed for professional courses in the professional schools, except in the A.B. degree with special provision for the professional certificate. (See page 118.)

BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES

The main purpose of the curricula for these degrees is to aid in developing an appreciation for cultural pursuits and to prepare the student for advanced graduate study in the various liberal arts fields and for matriculation in professional schools such as Law, Medicine, Business Administration, and Journalism.

The curricula that follow are for students entering as freshmen after August 1945, or for transfer students classified with this group upon entrance. Old curricula will be found in catalogues of earlier dates.

TRANSFER STUDENTS

Students transferring from standard colleges and universities with junior classification will not be required to take the survey courses offered in the freshman and sophomore years, provided their transcripts show that they have completed an equivalent number of hours in the division covered by the survey courses.

Students transferring from any of the junior colleges or other units of the University System to the College of Arts and Sciences are given full credit for all regular curriculum work completed with satisfactory grades. Any uncompleted required courses in the freshman and sophomore years must be taken.

REQUIREMENTS FOR THE BACHELOR OF ARTS AND
BACHELOR OF SCIENCE DEGREES

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2 x-y	10	English 22 x-y	10
Mathematics 101 x-y	10	History 110 x-y	10
Political Science 1	5	Social Studies	5
Foreign Language	10	(See Item 8 below)	
(See Item 11 below)		Foreign Language	0 or 10
Science (See Item 2 below)	10	(See Item 11 below)	
Military Science 1 or Air Science 5	5	Science (See Item 2 below)	10
Physical Education 1 (for men)	0	Elective	10 or 0
or		Military Science 2 or Air Science 6	5
Physical Education 1 (for women)	5	Physical Education 2 (for men)	0
		or	
		Physical Education 2 (for women)	5
Total	50	Total	50

JUNIOR AND SENIOR YEARS

(95 hours to complete the total requirements listed below)

TOTAL REQUIREMENTS

	Hours
1. Mathematics 101 x-y, Algebra and Trigonometry	10
2. Science	20
Human Biology 1-2	10 hours
and	
Physical Science 1-2	10 hours
3. Laboratory Science	10 to 20
a. For Bachelor of Arts students	10 hours
One double laboratory course from the following:	
Botany 21-22	
Chemistry 21-22	
Geology 25-26	
Physics 20, 27, 28, 329	
Zoology 25-26	
b. For Bachelor of Science students	20 hours
Two double laboratory courses, one from the Biological Science Division and one from the Physical Science Division, from the following:	
Botany 21-22	
Chemistry 21-22	
Geology 25-26	
Physics 20, 27, 28, 329	
Zoology 25-26	
4. Political Science 1	5
5. History 110 x-y, History of Western Civilization	10
6. History 350 x-y, American History	10
7. Philosophy 399, Philosophy and Society (seniors only)	5
8. Social Studies	15
Three courses from the following:	
Anthropology 102, Man and His Culture	
Economics 5x, Principles of Economics	
Geography 101, World Human Geography	
Philosophy 104, Introduction to Philosophy	
Psychology 1, Introduction to Psychology	
Sociology 5, Introduction to Sociology	

9. English 2 x-y, Grammar and American Literature10
 10. English 22 x-y, Survey of European Literature, or French 201-202, or German 201-202, or Spanish 201-20210
 11. Foreign Language10, 15 or 20

Four courses or 20 hours must be taken in one language combined in high school and college, of which at least 10 hours must be in college. If a student continues in college a language begun in high school, each unit of high school credit will be accepted as the equivalent of 5 hours of college work. However, a student cannot take for college credit Language 101 or 102 if he has presented two high school units in this language.

12. Classical Culture10

This requirement is for Bachelor of Arts students only and may be satisfied by one ten-hour sequence from the following:

- Classical Culture 301x and Classical Culture 301y
 Classical Culture 301x and Classical Culture 358
 Classical Culture 354, 355, 356, or 357 and Classical Culture 301y
 Classical Culture 354, 355, 356, or 357 and Classical Culture 358

If Latin or Greek is elected to meet the foreign language requirement (see Item 11), the student is exempt from the Classical Culture requirement.

13. Fine Arts 300, Music and the Visual Arts 5
 14. Major30

The major consists of at least 30 hours taken in one division, of which 20 hours must be in one subject. At least ten hours in courses numbered 200 or above must be taken in the major subject.* *No course can be used to satisfy any part of the minimum of 30 hours required in a major if it has also been used to satisfy any of the requirements listed under Items 1-13 or if it has been taken before a student has been admitted to the senior division.*

No course with a grade of D or D+ can be used to satisfy any part of the minimum requirement in a student's major.

For the Bachelor of Arts degree, the major division must be either Language-Literature, Social Sciences, Physical Sciences, Biological Sciences, Art, or Music. For the Bachelor of Science degree the major division must be either Physical Sciences or Biological Sciences. By special action of the dean and the major professor a combined divisional major may be offered, part from the Biological Science Division and part from the Physical Science Division, or one may be authorized, part from the Social Science Division and part from the Language-Literature Division.

15. Free Elective Courses
 Bachelor of Arts15 to 35
 Bachelor of Science15 to 25
 16. Total Requirements185
 (Exclusive of Military Science 1-2 or Air Science 5-6 and Physical Education 1-2).

MAJORS IN FOREIGN AREAS WITHIN THE BACHELOR OF ARTS DEGREE

On the advice of their major professor, students may select majors dealing with specific areas outside the continental United States. This option is designed to provide (1) both a cultural background and more intensive study of foreign areas than is possible within a major taken exclusively in

*Majors in languages see page 158.

a single department, and (2) an undergraduate preparation for advanced studies in foreign areas or international relations.

The student desiring to concentrate in a foreign area should major in one of the following departments: Economics, Geography, History, Modern Foreign Languages, Political Science. He should consult with the major professor in one of the above departments to select courses from related departments. A minimum of 20 hours of courses numbered above 200 must be taken in the major department; the remainder of the student's time available for major and elective courses should be spent in courses in related departments. All other requirements for the A.B. degree as outlined on pp. 113-114 must be met. It is strongly recommended that the student complete 10 hours in one modern foreign language in courses numbered above 200 which emphasize speaking and writing.

CURRICULUM FOR THE BACHELOR OF ARTS DEGREE WITH A MAJOR IN ART OR MUSIC

	Hours
BASIC CURRICULUM: Items 1 through 12, A.B. Degree, pages 113-114...125 to 135	
FOR MAJOR IN ART:	
Freshman and Sophomore Years—Art 20, 30, 40.....	15
Junior and Senior Years—Art 281, 282, 283, 121, 231 or 241, Art (on advisement), Music 343 or 358	33 to 35
FOR MAJOR IN MUSIC:	
Freshman Year—Music 10, 11, 12	9
Sophomore Year—Music 31, 32, 22	15
Junior and Senior Years—Music 350, 370, 353, 371, 442, 462, 456 or 457, Art 317	32
Applied Music—Music 85abc, 86abc, 287abc, 288abc	12
Electives, when needed, to complete total of 185 quarter hours exclusive of Military Science 1-2 or Air Science 5-6 and Physical Education 1-2.	

CURRICULUM IN ARTS AND LAW

(An Eighteen-Quarter Combined Curriculum)

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2 x-y	10	English 22 x-y	10
Mathematics 101x	5	History 110 x-y	10
Human Biology 1-2	10	Physical Science 1-2	10
Foreign Language 103-104	10	Laboratory Science	10
(See Item 11, page 114)		(See Item 3, page 113)	
Political Science 1	5	Social Studies	5
Social Studies	5	(See Item 8, page 113)	
(See Item 8, page 113)		Military Science 2 or Air Science 6 5	5
Military Science 1 or Air Science 5 5	5	Physical Education 2 (for men).....	0
Physical Education 1 (for men).....	0	or	
or		Physical Education 2 (for women) 5	5
Physical Education 1 (for women) 5	5		
Total.....	50	Total.....	50
JUNIOR			
			Hours
Social Studies (See Item 8, page 113)			5
History 350x-y			10
Philosophy 358			5
Classical Culture 301x-y			10
(See Item 12, page 114)			

Fine Arts 300	5
Elective (Courses numbered 200 or above)	15
Total	50

Three quarters of residence work, including 45 hours in courses numbered 200 or above, devoted exclusively to courses in the College of Arts and Sciences will be required after admission to senior division standing.

If the student does not present two entrance units in a foreign language or elects not to continue a language in which he has two units, he will, of necessity, have to add the additional five or ten quarter hours to his total requirements.

SENIOR

Satisfactory completion of the first year of work in the Law School and a total of 185 academic quarter hours.

BACHELOR OF SCIENCE IN CHEMISTRY

The curriculum for this degree offers training in the field of chemistry and its allied sciences for students who desire to enter commercial or government laboratories, to enter the teaching profession, to become associated with chemical industries in a non-technical position, or to pursue graduate work in chemistry in order to enter some field of research or college teaching.

REQUIRED COURSES IN FRESHMAN AND SOPHOMORE YEARS

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2x-y and 22x	15	English 22y	5
Chemistry 21-22-23	15	Mathematics 101 x-y	10
French 101-102-103	15	German 101-102-103	15
Military Science 1 or Air Science 5	5	Chemistry 340 a-b, 380	15
Physical Education 1 (for men)	0	Military Science 2 or Air Science 6	5
or		Physical Education 2 (for men)	0
Physical Education 1 (for women)	5	or	
		Physical Education 2 (for women)	5
Total	50	Total	50

An average of B or better is required, both in chemistry and in all freshman and sophomore work, in order to continue in the junior year for this degree, and an average of B must be maintained in both thereafter.

No transfer student will be accepted as a candidate for this degree later than the beginning of his junior year. A student who wishes to take this degree should enter the University no later than the beginning of his sophomore year.

REQUIREMENTS IN JUNIOR AND SENIOR YEARS

- (1) POLITICAL SCIENCE 1: Five hours.
- (2) MATHEMATICS: Through Mathematics 355.
- (3) PHYSICS: Fifteen hours.
- (4) CHEMISTRY: 440; two of 441, 480, or 481; 445 h, 490 a, 490 b, 495 h; two of 420, 421, 422; and one other 5-hour course.
- (5) COMPREHENSIVE EXAMINATION: The passing of a comprehensive examination (embracing the principal divisions of chemistry), this examination to be taken toward the end of the senior year.
- (6) ELECTIVES: A sufficient number of hours to make a total of not less than 185, exclusive of the required courses in Military Science 1-2, Air Science 5-6, or Physical Education 1-2.

CURRICULUM IN SCIENCE AND MEDICINE

PRE-MEDICAL PROGRAM

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2 x-y	10	English 22 x-y	10
Mathematics 101x	5	Mathematics 101y	5
French 103 or German 103	5	Zoology 25-26	10
Political Science 1	5	Physics 20 or 27, and 28	10
Chemistry 21-22	10	Chemistry 23	5
Human Biology 1-2	10	Psychology 1	5
Military Science 1 or Air Science 5	5	Military Science 2 or Air Science 6	5
Physical Education 1 (for men)	0	Physical Education 2 (for men)	0
or		or	
Physical Education 1 (for women)	5	Physical Education 2 (for women)	5
	<hr/>		<hr/>
Total	50	Total	50

JUNIOR

	Hours
Chemistry 340a-b, 380	15
Physics 329	5
Economics 5x or Sociology 5	5
History 110 x-y	10
Elective (Courses numbered 200 or above)	15
	<hr/>
Total	50

(A student will find it difficult to meet the requirements in one year of residence unless he submits two units of French or German from high school.)*

SENIOR

The satisfactory completion of the first year's work at the Medical College of Georgia at Augusta and a total of 185 academic quarter hours.

TWO-YEAR PRE-VETERINARY MEDICINE PROGRAM

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2 x-y	10	English 6	5
Mathematics 101 x-y	10	Dairy 3	3
Political Science 1	5	Animal Husbandry 1	3
Chemistry 21-22	10	Poultry Husbandry 60	5
Botany 21-22	10	Zoology 25-26	10
Military Science 1 or Air Science 5	5	Chemistry 340 a-b	10
Physical Education 1 (for men)	0	Physics 20	5
or		Electives	5
Physical Education 1 (for women)	5	Military Science 2 or Air Science 6	5
	<hr/>	Physical Education 2 (for men)	0
		or	
		Physical Education 2 (for women)	5
	<hr/>		<hr/>
Total	50	Total	51

*See residence rule, page 58.

CURRICULUM FOR THE BACHELOR OF ARTS DEGREE WITH PROVISIONS FOR A PROFESSIONAL CERTIFICATE FOR TEACHING IN SECONDARY SCHOOLS

The requirements for this degree total 190 hours, with 155 hours to be taken in the College of Arts and Sciences and a minimum of 35 hours to be taken in the College of Education. The program of the individual student will be worked out jointly by the Dean of the College of Arts and Sciences and the Dean of the College of Education. Students are advised to plan the program as early as possible, not later than during the first part of the sophomore year.

DIVISION OF FINE ARTS

The Division of Fine Arts is administered by the College of Arts and Sciences. It includes art, music, and speech and drama. The function of this Division is to give training in appreciation, to help students form standards of taste, to promote culture in the entire community, and to train specialized performing artists and teachers. To accomplish these objectives this Division collaborates with other schools, divisions, and departments, especially those of languages, education, and home economics. In the College of Arts and Sciences curricula of four years are offered, with a major in art, music, and speech and drama.

BACHELOR OF FINE ARTS DEGREE

FRESHMAN	Hours	SOPHOMORE	Hours
English 2 x-y	10	English 22 x-y	10
Political Science 1	5	History 110 x-y	10
Foreign Language (2)	10	Science (1)	10
Mathematics 101x	5	Fine Arts (3)	15 to 21
Fine Arts (3)	15	Military Science 2 or Air Science 6 5	6 5
Military Science 1 or Air Science 5 5	5 5	Physical Education 2 (for men) ...	0
Physical Education 1 (for women) 5	5	or	
or		Physical Education 2 (for women) 5	5
Physical Education 1 (for men) ...	0		—
Total	50	Total	50 to 56

- (1) See Item 2, page 113.
- (2) See Item 11, page 114. If the freshman does not present two entrance units in language or if he prefers to begin a new language, 20 hours are required.
- (3) Major in Art: Freshman—Art 20, 30, 40.
Sophomore—Art 111

One from Art 100, 121, 160
One from Art 208, 211, 221, 231
- Major in Drama: Freshman—Drama 1, 2, 3
Sophomore—Drama 220, 221, and 5-hour elective
- Major in Music: Freshman—Music 10, 11, 12, and 71abc
Sophomore—Music 34-35-36, 22abc, and 72abc
- Major in Speech: Freshman—Speech 8

Science, 10 hours (See Item 2, page 113).
Sophomore—Speech 50, 309, 350

DEPARTMENT OF ART

The Department of Art occupies the entire east wing of the Fine Arts Building. Besides studios and staff offices, it includes a spacious art gallery where periodically changing exhibitions are shown. The General Library houses the Georgia Museum of Art in which the Eva Underhill Holbrook Memorial paintings form the nucleus of a permanent collection. A Fine Arts Library functions as a supplement to the University Library and provides a convenient reference room for art students. Closing the calendar for the season is an annual exhibition of students' art work from which examples are selected to be kept in the Department.

The objective of the Department of Art is to provide training in the fundamental principles of the creative visual arts. Emphasis is given to active experience with tools and materials. A well-balanced program with its courses in drawing and painting, design, art history, art structure, commercial art, crafts, ceramics, sculpture, art education, and interior design is so integrated that each course functions to advantage in its relations to each of the other courses. From this integration the student is enabled to derive a knowledge of the basic principles underlying all art, and is thereby better equipped to interpret, appreciate, and create works of art.

In the freshman and sophomore years, 30 hours of art are required in addition to the general academic requirements. On entering the junior year, the student selects his major field of concentration from the six fields offered: Art Education, Advertising Design and Commercial Art, Ceramics, Crafts, Interior Design, and Painting and Drawing. Upon completion of this program and fulfillment of all requirements, the Bachelor of Fine Arts degree is conferred.

The Bachelor of Arts degree with a major in art is also offered. (See A.B. degree.) In the College of Education a Bachelor of Science in Education with a major in art is offered. (See College of Education.)

TRIPS

Each year art majors, accompanied by members of the Art Staff, make trips to leading museums and exhibitions. Sketching and painting trips are made occasionally during the year to localities within driving distance of Athens.

INTERNSHIPS

Arrangements have been made with leading commercial establishments in the South in order that art majors may serve internships during the summer between their junior and senior years. In this manner practical experience is related to the college curriculum.

BACHELOR OF FINE ARTS—MAJOR IN ART

REQUIRED COURSES IN JUNIOR AND SENIOR YEARS

Courses to be chosen in consultation with major professor. No student majoring in art will receive credit for a required course numbered 200 or above with a grade below C.

1. ART EDUCATION

	Hours
Science (1)	10
Art 211, Design	5
Drawing, Painting and Sculpture	15
Art History 283, and 281 or 282	10
Ceramics	5

Art 413, Crafts	5
Art 414, Drawing and Painting	5
Art 415, Design	5
Education 304	5
Education 346.9, 347.9, 348.9	15
Education 349	5
Music (Recommend 358)	5
Electives	5
	<hr/>
	95

2. ADVERTISING DESIGN AND COMMERCIAL ART

	Hours
Science (1)	10
Art 241, Watercolor	5
Art 231	5
Art History	15
Landscape Architecture 55	5
Art 206, 209, and 210	15
Art 200, Technical Problems	5
Journalism (Recommend 457)	5
Music (Recommend 358)	5
Electives (Recommend Art 221, 223 and 207; or Art 211, 387 and Drama 335)	25
	<hr/>
	95

3. CRAFTS

	Hours
Science (1)	10
Art 210, Lettering	5
Crafts (Senior Division)	15
Art 270, Sculpture	5
Ceramics or Sculpture	10
Art History	15
Landscape Architecture 55	5
Art 221, Drawing and Composition	5
Art 206, Advertising Design I	5
Art 200, Technical Problems, or 211, Design	5
Music (Recommend 358)	5
Electives	10
	<hr/>
	95

4. CERAMICS

	Hours
Science (1)	10
Art 270, Sculpture	5
Art History	15
Ceramics (Senior Division)	30
Art 221, Drawing and Composition	5
Painting	5
Crafts	5
Electives (Recommend: Interior Design, Anthropology 102 and 302, Music 358, Sculpture, Landscape Architecture)	20
	<hr/>
	95

5. DRAWING AND PAINTING

	Hours
Science (1)	10
Art 222, Drawing and Modeling	5
Painting and Drawing	25
Art 270, Sculpture	5
Art History	15
Music (Recommend 358)	5
Electives (Recommend Art 211, Art 207, Art 271, Crafts, Drama 335, Landscape Architecture 55, Philosophy 399, Psychology 1, and Sociology 5)	30
	—
	95

6. INTERIOR DESIGN

	Hours
Science (1)	10
Art 211, Design	5
Art 221, Drawing and Composition	5
Art 241, Watercolor	5
Art History	15
Landscape Architecture 55, 56	10
Interior Design	25
Crafts and Ceramics	10
Electives	10
	—
	95

(1) See Item 2, page 113.

DEPARTMENT OF MUSIC

- A student majoring in music for a B.F.A. degree may concentrate in
- a) Applied Music (requiring a public recital, instrumental or vocal)
 - b) Theory-Composition (requiring an original major work publicly performed)
 - c) Music Literature (requiring a comprehensive examination)
 - d) Music Education (specializing in instrumental or vocal work)

The degree of B.S. in Education with a major in music is also offered. (See College of Education.)

Junior division courses for a major in music include the regular academic courses in addition to courses in elementary theory and harmony. These courses are designed to give the student a practical knowledge of the theory of music, ear training, and harmony. The senior division courses are designed to give the student a broader and more cultural background in music. A limited number of practical courses in music may be taken for credit. See explanations at the end of course announcement in Music.

Much stress is laid on public performance through weekly music appreciation programs and student recitals on the campus, and other programs in fine art centers established throughout the state. One oratorio and one operetta are given each year by the students, and an outstanding concert series of internationally known artists adds to the cultural atmosphere of the campus.

BACHELOR OF FINE ARTS—MAJOR IN MUSIC

REQUIREMENTS IN JUNIOR AND SENIOR YEARS

(1) Major Concentrations:

(a) Applied Music—public recital (instrumental or vocal).

	Hours
Music Literature courses 350, 353, 442, 456, 457, 462.....	22
Music Theoretical courses 370, 371, 374	15
Conducting 362	3
Applied Music 273abc, 274abc	12

(b) Theory-Composition—large original composition in concert instead of public recital, Music 475 and 476 required; otherwise same as Applied Music.

(c) Music Literature—comprehensive examination and performance before music faculty, addition of 11 hours in Music Literature; otherwise same as Applied Music.

(d) Music Education—a comprehensive examination and performance before the music faculty will be required before graduation. All students must play in Orchestra and Band or sing in choral organizations regularly.

Theoretical Courses 370, 371, 374	15
Applied Music 273abc and 274abc	12
Music Literature Courses—from 350, 353, 442, 456, 457, 462.....	12
Education Courses 312, 313, 314, 315	20
Methods Courses—choice of:	
a. Instrumental: 251, 252, 253, 362, 389abc	15
b. Vocal: 263, 362, 365, 389abc	14

(2) Science: 10 hours

(See Item 2, page 113)

(3) Art: 5 hours

(4) English: One approved senior division course, 5 hours

(5) Electives: A sufficient number of hours to bring the total to 185, exclusive of the required courses in Military Science 1-2 or Air Science 5-6 or Physical Education 1-2. Courses in fine arts, English, history, and foreign languages are especially recommended. 0 to 20 hours.

(6) All music majors must be able to read simple hymns or music of similar difficulty on the piano. All music majors must participate in ensemble groups.

DEPARTMENT OF SPEECH AND DRAMA

The Department of Speech and Drama provides specialized training in speech, drama, and Theatre. However, many of the courses are open to students who do not desire a degree, but who wish to enrich their knowledge and heighten their appreciation of speech and the arts of the theatre. The purpose of the courses is threefold: (1) to give an opportunity for talented students to prepare themselves for professional work in the fields of speech, drama and theatre, speech correction, and children's theatre; (2) to train leaders for the educational field—teachers, directors, and technicians for schools, colleges, and civic theatres; (3) to make available for students in the University certain courses which will aid them in developing an intelligent interest in the fields of speech and drama.

THE UNIVERSITY THEATRE. In addition to the various courses, a series of productions is presented each season by the University Theatre, an organization designed for all students who are interested in any phase of dramatic production. The productions are planned in a way to give students, as

nearly as possible, the actual experience of producing plays as they are produced in the professional theatre. They are cast and rehearsed by staff directors and the productions designed and built by students working under the supervision of the instructors in the various courses. No additional fee is charged for membership in this group.

BACHELOR OF FINE ARTS—MAJOR IN DRAMA

REQUIRED COURSES IN JUNIOR AND SENIOR YEARS

JUNIOR		SENIOR	
	Hours		Hours
Science _____	10	Drama 349 _____	5
(See Item 2, page 113)		Drama 350 _____	5
Drama 300 _____	5	Drama 360, 361, 362 _____	9
Drama 334 _____	5	English 440 _____	5
Drama 335 _____	5	English 441 _____	5
Drama 336 _____	5	Electives _____	21
Electives _____	15		
Total	45	Total	50

BACHELOR OF FINE ARTS—MAJOR IN SPEECH

REQUIRED COURSES IN JUNIOR AND SENIOR YEARS

JUNIOR		SENIOR	
	Hours		Hours
Speech 369 _____	5	Speech 310 _____	5
Speech 386 _____	5	Speech 311 _____	5
Speech 396 _____	5	Electives _____	40
Electives _____	30		
Total	45	Total	50

DEPARTMENT OF NURSING EDUCATION

The Department of Nursing Education prepares professional nurses for service in civilian hospitals and the government nursing services, for rural and urban community health programs in both the curative and preventive phases and for teaching in schools of nursing. Three programs are offered: (1) Bachelor of Science in Nursing Education for high school graduates or transfers from colleges; (2) Bachelor of Science in Nursing Education for graduate registered nurses; (3) Centralized teaching program in the Atlanta Division, University of Georgia.

PROGRAMS

I.

The eighteen-quarter curriculum for the Bachelor of Science in Nursing Education is designed for selected high school graduates and for those students whose qualifications permit them to transfer from another college major to nursing education.* A total of 186 quarter hours, exclusive of Physical Education 1-2, is required. Physical Education is required of all freshmen and sophomores, but may be waived for transfer students who have had two years of college work and who have junior standing.

*See residence rule, page 58.

In detail, the work of the eighteen-quarter curriculum for the first six quarters is as follows:

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2 x-y	10	History 110 x-y	10
Chemistry 21	5	Biology 11-12	6
Mathematics 101x	5	Nursing Education 30	1
Human Biology 1-2	10	Nursing Education 31	4
Psychology 1	5	(Units 1 through 6)	
Speech 8 or 50	5	Nursing Education 200 or 323	3
Political Science 1	5	Bacteriology 11	3
Physical Education 1	5	Education 304	5
		Psychology 358 or 423	5
		Sociology 5	5
		Nursing Education or Elective	5
		Physical Education 2	5
	—		—
Total	50	Total	52

Nine quarters (29-45 hrs.) of clinical nursing instruction and practice, at an approved general hospital, in the following clinical subjects: medical and surgical; at special hospitals, psychiatric, orthopedic, and public health nursing. Of the last three quarters one will be spent at an approved school of nursing and will include Nursing Education 346-347-348, 15 hours; and the other two quarters must be spent at the University in Athens or in the Atlanta Division. The subjects on the Athens Campus or in the Atlanta Division will include:

	Hours
Chemistry 346, 451	10
Psychology 423 or 462	5
Education 556 or 521	5
Nursing Education	10
Special courses	0-16

(Where clinical experience is evaluated at less than 45 hours, the deficiency will be covered by specific courses in Nursing Education or allied fields.)

In summary, the 196 hours are distributed as follows:

(a) First 6 quarters	102 hrs.
(b) Approved hospitals, 9 quarters	29-45 hrs.
(c) Last three quarters	45-61 hrs.
1. Athens or Atlanta Division	30-46 hrs.
2. Approved School of Nursing	10-15 hrs.

CLINICAL NURSING INSTRUCTION AND PRACTICE

The clinical nursing instruction and practice will be taken at an approved hospital that meets the requirements of the University. The public health nursing experience will be with an agency recommended by the State Division of Public Health Nursing.

Students in this program enter the hospital and enroll in the School of Nursing subjects at the beginning of the sixth quarter. The nine quarters thereafter are spent in a hospital which qualifies for all or special clinical instruction.

The State Board Examination in Nursing may be written at the close of either the basic program or the entire program (eighteen quarters) for the Registered Nurse (R.N.) certificate.

The degree of Bachelor of Science in Nursing Education will be granted upon the completion of one of the following programs in Athens or the Atlanta Division.

1. INSTRUCTOR OF NURSING ARTS

The aim of this program is to prepare nurses who are interested in teaching the Art of Nursing. It qualifies the nurse to begin as an assistant. Students have a distribution in sociology, political science, approximately 16 hours in Nursing Education, and 25 hours in Education, which includes directed teaching experience in Nursing Arts for one full quarter supervised by a member of the University nursing faculty in an approved hospital school of nursing.

2. ASSISTANT CLINICAL INSTRUCTOR

This program is designed to prepare nurses interested in the first level teaching position, Head Nurse. The content is comparable to that of Instructor of Nursing Arts with the directed teaching and head nurse experiences conducted in the clinical nursing field of the student's choice, that is, in the medical, surgical, and psychiatric nursing services.

II.

The curriculum for the graduate registered nurse leading to the degree of Bachelor of Science in Nursing Education can be completed in approximately nine quarters, if the applicant receives the maximum of 45 quarter hours credit for her basic school of nursing work. A total of 186 hours credit will be required, exclusive of Physical Education.*

The major programs of study in Nursing Education are:

1. Instructor of Nursing Arts.
2. Clinical Instructor and Supervisor of a clinical department in a hospital, such as medical, surgical, or psychiatric.
3. Teaching of the Physical and Biological Sciences in schools of nursing.
4. Teaching of the Social Sciences in schools of nursing.

Applicants for this curriculum may reduce the length of time of study on the campus in various ways: (1) By taking required subjects in English, sociology, psychology, and history in a college in the locality of their residence or through the University of Georgia Extension Division; or (2) by registering for the professional nursing education courses conducted by the University of Georgia Extension Division.

AIMS OF PROGRAM

1. Described in the 18-quarter program.
2. CLINICAL INSTRUCTOR AND SUPERVISOR.

This program is planned to meet the needs of head nurses interested in preparing for the second level teaching position, supervisor. Successful experience as a manager of a hospital unit, and the qualities to work with student nurses and other personnel are essential to qualify for admission into this program.

3. TEACHING OF PHYSICAL AND BIOLOGICAL SCIENCES.

This program is intended for the registered nurse who requests a plan of instruction to qualify her to teach the elementary basic sciences in schools of nursing. Emphasis will be placed upon the integration of the scientific principles with the nursing care of patients and the problems of personal and community health.

4. TEACHING OF THE SOCIAL SCIENCES.

This program is intended for the registered nurse who requests a plan of instruction to qualify her to teach professional adjustments, history of nursing, sociology, social problems in nursing, and psychology in schools of nursing.

*See residence rule, page 58.

Program 4 has been adjusted to meet the request for the graduate registered nurse who does not plan to teach. In place of student teaching, electives in English, home economics, sociology, psychology, and other approved subjects may be carried.

REQUIREMENTS

Program 1

	Hours
Credit allowed for three-year diploma work	29-45
English 2 x-y	10
Speech 8 or 50	5
Mathematics 101x or Nursing Education 1	5
Chemistry	10
Biological Sciences	15
Human Biology 1-2 or Human Biology 2 and Zoology 25	10
Bacteriology 350	5
Social Sciences	35
Economics 5x	5
History 110x-y	10
Philosophy 399	5
Political Science 1	5
Sociology (to include Sociology 315)	10
Psychology (Psychology 1 and two other 5-hour courses)	15
Education	10
Education 304	5
Education 556 or 520 or Psychology 415	5
Nursing Education	35-37
Nursing Education 200, 320, or 323	3
Nursing Education 321	3
Nursing Education 324	3
Nursing Education 325 or 328	3-5
Nursing Education 326	3
Nursing Education 327	5
Nursing Education 346, 347, 348 (in field of major interest)	15
Special courses	0-16
(Where clinical experience is evaluated at less than 45 hours, the deficiency will be covered by specific courses in Nursing Education or allied fields.)	
Physical Education 1-2	10
Total	196

Program 2

Same as for Program 1 except that the Nursing Education will include the following:

	Hours
Nursing Education	37
Nursing Education 321	3
Nursing Education 324	3
Nursing Education 325	5
Nursing Education 326	3
Nursing Education 327	5
Nursing Education 329	3
Nursing Education 330	5
Nursing Education 346, 347	10

To be eligible for this program the nurse must satisfy the following prerequisite: At least two years of successful experience is required, preferably as assistant clinical instructor or head nurse, or teaching experience in the nursing arts.

Program 3

	Hours
Credit allowed for three-year diploma in nursing	29-33
English 2 x-y	10
Speech 8 or 50	5
Mathematics 101x and Pharmacy 1	10
Chemistry	35
Chemistry 21, 22, 23, 340a-b, 380, 351	
Biological Sciences	35
Human Biology 1-2 or Zoology 25-26	10
Zoology 309, 355, 367	15
Bacteriology 350, 351	10
Physics 20	5
Social Sciences	15
Philosophy 399	5
Political Science 1	5
Sociology	5
Psychology (Psychology 1 and one other 5-hour course)	10
Education	10
Education 304	5
Education 556 or 520	5
Nursing Education	19
Nursing Education 200 or 323	3
Nursing Education 321 or 326	3
Nursing Education 324	3
Nursing Education 327	5
Nursing Education 346	5
Special Courses	0-16
(Where clinical experience is evaluated at less than 45 hours, the deficiency will be covered by specific courses in Nursing Education or allied fields.)	
Physical Education 1-2	10
Total	196

Program 4

	Hours
Credit allowed for three-year diploma in nursing	29-45
English 2 x-y	10
Speech 8 or 50	5
Biological Sciences	15
Human Biology 1 and 2 or Human Biology 2 and Zoology 25	10
Bacteriology 350	5
Social Sciences	55
Economics 5x	5
Geography 101	5
History 110x-y	10
Philosophy 399	5
Political Science 1	5
Sociology (to be selected with the counsel of the faculty adviser)	25
Psychology	25
Education	10
Education 304	5
Education 556 or 520	5

Nursing Education	22
Nursing Education 200, 320, or 323	3
Nursing Education 321	3
Nursing Education 324	3
Nursing Education 326	3
Nursing Education 327	5
Nursing Education 346	5
Special Courses	0-16
(Where clinical experience is evaluated at less than 45 hours, the deficiency will be covered by specific courses in Nursing Edu- cation or allied fields.)	
Physical Education 1-2	10
Total	196

III.

CENTRALIZED TEACHING PROGRAM IN THE ATLANTA DIVISION

Since September 1943 the University has sponsored the instruction of the preclinical students for the Crawford W. Long Hospital, the Georgia Baptist Hospital, and the Piedmont Hospital, Atlanta. The instruction is centralized in the Atlanta Division of the University of Georgia and supervised by the Nursing Education staff.

CENTRALIZED TEACHING PROGRAM

(3 quarters)

FIRST QUARTER		SECOND QUARTER	
	Hours		Hours
Biology 10	3	Biology 11	3
Chemistry 3	5	Bacteriology 350a	3
Psychology 1	5	Sociology 5	5
Physical Education 1	1	Physical Education 1	1
	14		12
THIRD QUARTER			
	Hours		
Biology 12	3		
Bacteriology 350b	3		
Home Economics 3	3		
Physical Education 1	1		
	10		

The student receives 33 quarter hours for the class work satisfactorily completed in the three quarters and will receive a total of 27 to 33 hours credit for the clinical instruction had in the remainder of the program. This makes a total of 60 to 66 hours that the nurse will have to apply toward the degree requirements of 196 hours if she continues study at the University.

EXPENSES

The expenses for the instruction of the nursing students in the University are the same as those of other students, details of which may be found elsewhere in this catalogue. The University of Georgia basic student nurses will be charged \$10 a quarter while they are having their clinical nursing instruction at the hospital. This fee covers registration and supervision by the University's Department of Nursing Education. The applicants will also be advised by their directors of nursing.

DEPARTMENTAL ANNOUNCEMENTS

The University reserves the right to withdraw any course for which the registration is not sufficiently large. Courses not listed may be offered should sufficient demand arise and teaching personnel be available.

Unless otherwise indicated all courses meet five hours a week, and carry five hours credit.

ANTHROPOLOGY AND ARCHAEOLOGY

(LeConte Hall, North Campus)

Head: Kelly. Research Associate: Waring.

102. MAN AND HIS CULTURE. *Mr. Kelly.*

An introduction to the study of man as a cultural animal, the development of human societies from preliterate beginnings, the rise of complex social organizations with an outline study of the major cultures developed by man.

201. MAN'S PLACE IN NATURE. *Mr. Kelly.*

A study of the fossil history of mankind, the origin and development of *Homo Sapiens* and modern human races, world distribution of racial types, race mixture.

210. INTRODUCTORY ETHNOLOGY. Prerequisite: Anthropology 102 or introductory course in another social science. *Mr. Sears.*

An introduction to the basic principles of ethnology, the historical and analytical study of primitive cultures. A number of primitive cultures will be surveyed. These will be selected to give the fullest possible coverage in terms of area, race, and culture type.

301. OLD WORLD ARCHAEOLOGY. Prerequisites: Anthropology 201 or 102. *Mr. Kelly.*

The development of culture, beginning with the oldest remains of the Stone Age, extending through the Stone, Bronze, and Iron Ages.

302. THE AMERICAN INDIAN. Prerequisites: Anthropology 201 or 102. *Mr. Kelly.*

A survey course on the cultural development of the aboriginal population of the New World.

401. ARCHAEOLOGY OF THE EASTERN UNITED STATES. Prerequisites: Anthropology 301 and 302. *Mr. Kelly.*

A detailed study of the literature dealing with the archaeology of the Mississippi River basin and contiguous areas in the central United States, the Northeastern and Southeastern woodlands, with particular reference to the description of archaeological remains in the American Southeast and the Caribbean region.

420. FIELD AND LABORATORY METHODS IN ARCHAEOLOGY. Prerequisite: Anthropology 401. *Mr. Kelly.*

Methods of archaeological reconnaissance, survey excavation, laboratory preparation and analysis of collected materials, study to be pursued in scheduled field expeditions to assigned archaeological sites in Georgia.

801, 802. RESEARCH IN SOUTHEASTERN ARCHAEOLOGY. 5 hours each. Prerequisites: 20 hours of anthropology with a 400-course in American ethnology or archaeology. *Mr. Kelly.*

The student will pursue graduate research on assigned materials of original archaeological context in the existing collections of the University, or will carry out field excavations on an archaeological site, or unit of exploration or survey, preparing all field recordation and a completed report on the work.

ART

(Fine Arts Building, North Campus, unless otherwise specified.)

Head: Dodd. Staff: Amos, Breithaupt, Browne, Dieball, Holliday, Johnson, Madden, McCutchen, Sanderson, Sellers, Sweeney, Thomas, Warren, Wescott.

ART STRUCTURE

20. ART STRUCTURE. (Drawing). Four laboratory periods and one lecture. *Mr. Thomas and the Staff.*

An introductory drawing course; landscape, figure, still life. Experience in several mediums. Study of the masters.

30. ART STRUCTURE (Design). Four laboratory periods and one lecture. *Miss Amos and the Staff.*

Organization of the visual elements; line, color, texture, volume and space. (Not open to those credited with Art 1 and 2.)

40. ART STRUCTURE (Nature of Materials). Four laboratory periods and one lecture. Prerequisite: Art 30. *Miss Amos and Mr. Sanderson.*

Experience in the manipulation of various three-dimensional materials, wood, clay, metal and synthetics. A study of the organic quality of materials and the logical treatment and combination of the separate elements to make a new form.

ART APPRECIATION

401-402. APPRECIATION OF ARTS. 5 hours, two units of 2½ hours each. Prerequisites: two senior division Fine Arts courses. (No credit allowed if student has credit for Art 435.) Atlanta Area Teacher Education Service Center, Atlanta, Georgia. *Mr. Dodd and Mr. Hodgson.*

DESIGN

111. DESIGN. Five laboratory periods. Prerequisite: Art 30. *Miss Amos and Miss Holliday.*

A study of line, value, shape, color and texture in the creation of two-dimensional design.

211. DESIGN. Five laboratory periods. Prerequisite: Art 111. *Miss Amos and Mr. Wescott.*

Advanced problems in two-dimensional design. Organization of volumes in space.

DRAWING, PAINTING, AND COMPOSITION

121. DRAWING AND COMPOSITION. Four laboratory periods and one lecture. Prerequisite: Art 20. *Mr. Thomas and the Staff.*

Analyses of the drawings of the great masters. Figure drawing. Composition from nature and perspective concepts.

221. DRAWING AND COMPOSITION. Four laboratory periods and one lecture. Prerequisites: Art 20 and 21. *Miss Holliday and Mr. Madden.*

Picture construction through design and composition.

222. DRAWING AND MODELING. Four laboratory periods and one lecture. Prerequisite: Art 221. *Mr. Madden.*

Two and three-dimensional research in the anatomical construction of the human figure.

223. DRAWING AND PAINTING. Four laboratories and one lecture. Prerequisite: Art 221. *Mr. Dodd.*

Advanced drawing and painting for Drawing and Painting majors. Open as an elective by permission of the instructor.

231. PAINTING. Four laboratory periods and one lecture. Prerequisite: Two drawing courses. *Miss Holliday and Mr. Madden.*

Introductory painting. Aesthetic considerations of picture structure.

232. PAINTING. Four laboratory periods and one lecture. Prerequisite: Art 231. *Miss Holliday and Mr. Madden.*

Technical consideration of the preparation of grounds, mediums, and pigments. Analyses of the techniques of the masters. Oil, tempera, and mixed techniques.

233-234. PAINTING. Four laboratory periods and one lecture each. Prerequisite: Art 232. *Mr. Thomas.*

Advanced painting.

241. WATERCOLOR. Five laboratory periods. Prerequisite: one design and one drawing course. *Miss Holliday and the Staff.*

Study of transparent watercolor.

242. WATERCOLOR. Five laboratory periods. Prerequisite: Art 241. *The Staff.*

Continuation of 241 with emphasis upon opaque watercolor (Gouache).

800-801. GENERAL ART. Five laboratory periods. *Mr. Dodd.*

802. DRAWING AND COMPOSITION. Five laboratory periods. Prerequisites: Art 222 and 234. *Mr. Dodd.*

803. DRAWING AND COMPOSITION. Five laboratory periods. Prerequisite: Art 802. *Mr. Dodd.*

804. DRAWING AND COMPOSITION. Five laboratory periods. Prerequisite: Art 803. *Mr. Dodd.*

831. PAINTING. Five laboratory periods. Prerequisites: Art 222 and 234. *Mr. Dodd.*

832. PAINTING. Five laboratory periods. Prerequisite: Art 831. *Mr. Dodd.*

833. PAINTING. Five laboratory periods. Prerequisite: Art 832. *Mr. Dodd.*

ART HISTORY

In the art history courses the student is given an opportunity to become acquainted with the great art of the past as well as that of the present day. Through this study of the historical, social, and economic conditions of the periods producing art, and through analysis, criticism, and interpretation of the masterpieces, the student acquires knowledge of the fundamental motives and structural principles, and also develops a sensitivity to the inherent qualities that make a work of art timeless. The work in art history is closely integrated with the studio work.

281. ANCIENT AND MEDIEVAL ART. *Mr. Breithaupt.*

A survey of sculpture, architecture, painting, and other arts from prehistoric times to the Italian Renaissance.

282. RENAISSANCE ART. *Miss Holliday.*

A study of art from the Italian Renaissance to the early part of the nineteenth century.

283. MODERN ART. *Mr. Breithaupt.*

A study of art since the middle of the nineteenth century, a survey of contemporary art.

435. ART CRITICISM. *Mr. Breithaupt.*

Study of the theory of art. This course is offered as a general elective for students of other departments and colleges. Not open to art majors.

480. ART OF THE ITALIAN RENAISSANCE. *Mr. Breithaupt.*

A study of architecture, sculpture, and painting of the fourteenth, fifteenth, and sixteenth centuries in Italy.

483. PAINTING OF THE 19TH AND 20TH CENTURIES. *Mr. Breithaupt.*

A study of painting from Cezanne to present day artists in the Western World.

484. BAROQUE ART. *Mr. Fanning.*

A study of art from the end of the Renaissance to the Industrial Revolution. Emphasis on the history of painting and its relationship to architecture, sculpture, and literature of the period.

490. OBJECTIVES OF 20TH CENTURY ART. *Mr. Sweeney.*

A consideration of painting and sculpture today against its historical background. A reading seminar related to a course of public lectures.

ADVERTISING DESIGN AND COMMERCIAL ART

206. ADVERTISING DESIGN I. Four laboratory periods and one lecture. Prerequisites: Art 111, 121, and 210. *Mr. Johnson.*

Visual communication and graphic techniques.

207. ILLUSTRATION. Four laboratory periods and one lecture. Prerequisites: Art 206, 221, and 231 or 241. *Mr. Dieball.*

Application of drawing, painting, and design experiences to the field of illustration. Experimentation with various mediums and techniques. Study of reproduction methods.

208. ADVERTISING LAYOUT. Three laboratory periods and two lectures. *Mr. Dieball and Mr. Johnson.*

Fundamentals of color, design, typography, and reproduction related to modern advertising problems. Layout of newspaper, magazine, and direct-mail advertising.

209. ADVERTISING DESIGN II. Four laboratory periods and one lecture. Prerequisites: Art 206, 210, and 231 or 241. *Mr. Johnson.*

Continuation of Art 206. Advanced problems in advertising design including preparation of layouts, comprehensive and finished art, study of production problems.

210. LETTERING. Four laboratory periods and one lecture. Prerequisite: Art 30. *Mr. Dieball* and *Mr. Johnson.*

Principles of lettering and letter construction with experience in lettering as used and reproduced today. Study of typography in relation to lettering and advertising design.

CRAFTS

151. CRAFTS. Five laboratory periods. Prerequisite: Art 30 or 111. *Mr. Sanderson.* (Not offered in 1951-52.)

Metal work, jewelry, weaving, textile printing, and wood work. An elective for students in other departments.

250. WEAVING. Five laboratory periods. Prerequisite: Art 30 or 255. *Mr. Sanderson.*

Hand-weaving designed for contemporary living. Experience in drapery, upholstery, and suiting with emphasis on color, texture, and pattern.

251. TEXTILE DESIGN AND PRINTING. Five laboratory periods. Prerequisite: Art 30 and 111. *Mr. Sanderson.*

A course in designing and producing fabrics by stencil and silk screen.

252. JEWELRY AND METAL WORK. Five laboratory periods. Prerequisite: Art 30, 40, and 111. *Mr. Sanderson.*

A thorough grounding in the techniques necessary to execute well-designed objects in metal; including forming, chain-making, chasing, repousse, stone setting, tool making, metal finishing, enameling, and centrifugal casting.

253. WOOD WORK. Five laboratory periods. Prerequisite: Art 30 and 40. *Mr. Sanderson.*

Experience in construction and finishing, using machine and hand processes.

255. CRAFTS. 3 hours. Three laboratory periods. Prerequisite: Art 30. *Mr. Sanderson.*

Introductory course in weaving, tie and dye, and batik.

CERAMICS

160. POTTERY. Five laboratory periods. *Miss Amos* and *Mr. McCutchen.*

Form, proportion, and simple ornament as related to pottery shapes. Laboratory exercises and related lectures in handbuilding pottery. No previous art experience is required.

261. POTTERY. Four laboratory periods and one lecture. Prerequisite: Art 160, 161 or 265. *Miss Amos* and *Mr. McCutchen.*

Laboratory exercises and related lectures in the use of the potter's wheel. Examination of pottery in relation to other art processes.

262. CERAMIC DECORATIVE PROCESSES. Four laboratory periods and one lecture. Prerequisite: Art 261. *Mr. McCutchen.*

The ceramics of past civilizations is examined to understand better the forming processes, decorative techniques, and artistic standards in pottery making. The adaptation of these techniques applied to the laboratory as a basis for individual experimentation by the student.

263. CERAMIC CALCULATIONS. Two laboratory periods and three lectures. Prerequisites: Chemistry 21-22 and Art 261. *Mr. McCutchen.*

The chemistry and arithmetic of glazed formulas, compositions, and computations studied from the standpoint of technical and artistic points of view.

265. POTTERY. 3 hours. Three laboratory periods. *Miss Amos* and *Mr. McCutchen.*

An elementary course in pottery. Laboratory experiences in forming, firing, and glazing ceramic ware.

266. CERAMIC GLAZES. Four laboratory periods and one lecture. Prerequisite: Art 263. *Mr. McCutchen.*

Continuation of Art 263. Emphasis on the adaptation of the fundamentals of glaze behavior to decorative and forming processes.

267. CERAMIC PROBLEMS. Five laboratory periods. Prerequisite: Art 266. *Mr. McCutchen.*

Course for advanced students in ceramics who have sufficient background and technical knowledge to carry on independent projects. Problems combining research in design and ceramic technology are selected in consultation with the instructor.

268. CERAMIC PROBLEMS. Five laboratory periods. *Mr. McCutchen.*
Continuation of Art 267.

460. ADVANCED CERAMIC DESIGN. Five laboratory periods. Prerequisites: Art 267 and 268. *Miss Amos* and *Mr. McCutchen.*

Individual development in the use of the materials and processes of the ceramic designer. Emphasis on the functional and aesthetic requirements of form and ornament in contemporary ceramics.

461. HISTORICAL PROCESSES IN CERAMICS. Five laboratory periods. Prerequisites: Art 267 and 268. *Miss Amos* and *Mr. McCutchen.*

Individual research into ceramics of the past and adaptation of knowledge to technical and aesthetic solutions of contemporary problems.

SCULPTURE

270. SCULPTURE. Five laboratory periods. Prerequisites: Art 20 and 121. *Mr. Madden.*

Fundamentals of three-dimensional design. Figure, animal, and abstract modeling. Analyses of great sculpture. Casting and patinas.

271. SCULPTURE. Five laboratory periods. Prerequisite: Art 270. *Mr. Madden.*

Individual problems for advanced students. Stone, wood, and clay.

ART EDUCATION

100. ART PRINCIPLES. Five laboratory periods. *Miss Browne.*

The course builds an understanding of the fundamentals of design and composition. Students learn to use creatively the basic art materials appropriate for public schools. Awareness of art quality is also fostered by gallery visits and lectures illustrated by work of artists and children. Readings and discussions encourage a sound attitude toward art and art education.

413. CRAFTS. Five laboratory periods. *Miss Browne.*

The course develops ability to design 3-dimensionally in terms of material, process, and use. According to the needs of individual students, work is done in clay modeling, puppetry, papier mache, textile printing, simple weaving, and loom construction. Use of native materials is stressed. Students have contact with craft programs for children. The course is planned to meet the needs of teachers.

414. DRAWING AND PAINTING. Five laboratory periods. *Miss Browne.*

Students in this course relate their own work in drawing, pictorial composition, color, and technique to the problems of teaching painting. Through readings, discussions and visits, students study the role of art experience as a means of personal development. Emphasis is placed upon the relationship of art to curricular patterns of the public school.

415. DESIGN. Five laboratory periods. *Miss Browne.*

The purpose of the course is two-fold: (1) to deepen and broaden the design sense of students; (2) to help them develop means of teaching design as fundamental to every art activity. In accordance with the needs of students in the class, the course deals with problems of teaching at various age levels.

416. MODELING AND CARVING. Five laboratory periods. *Mr. Madden.*

The course offers experience in three-dimensional design with materials readily available to teachers.

423. MATERIALS AND DESIGN. Five laboratory periods. *The Staff.* (Scheduled only with consent of adviser.)

An advanced course offering opportunity to work in one or more of the following fields: pottery, weaving, silk-screen printing, metal working.

INTERIOR DESIGN

290. INTERIOR DESIGN. *Mr. Wescott.*

A study of architecture, concepts of interior space, the great periods of furniture design and allied crafts, as a background for comparison with contemporary architecture, furniture, new materials, methods of manufacture, and present day needs.

387. INTERIOR DESIGN. Five laboratory periods. Prerequisite: Art 111. *Mr. Wescott.*

Shop practice in the problems of interior design. A practical application of the theories of color and light as they relate to interiors and furnishings. Practical work in preparing paints and colors for walls, wood finishing, drapery construction. Use of new materials in accessories.

389. INTERIOR DESIGN. Four laboratory periods and one lecture. Prerequisites: Landscape Architecture 55 and 56. *Mr. Wescott.*

Drawing and rendering of plans and elevations; measuring and scaling of interiors and furnishings; creative problems in the treatment of interior space, arrangement of furnishings on a basis of design and function.

390. INTERIOR DESIGN. Four laboratory periods and one lecture. Prerequisites: Landscape Architecture 55 and 56 and Art 389. *Mr. Wescott.*

Creative problems in the designing of chairs, tables, case goods, and accessories. Lectures on design, contemporary materials, and methods of construction.

391. INTERIOR DESIGN. Four laboratory periods and one lecture. Prerequisites: Landscape Architecture 55 and 56 and Art 390. *Mr. Wescott.*

Individual and group projects in planning or remodeling and furnishing of domestic interiors, or commercial interiors. Emphasis on the creative approach and conception of the problem as a whole. Each problem carried through with complete plans, elevations, specifications, and perspective renderings.

TECHNICAL PROBLEMS

200. TECHNICAL PROBLEMS. Five laboratory periods. *The Staff.*

A special course for students qualified to carry out individual projects in design, crafts, drawing, painting, sculpture, or ceramics. Work is done independently of the regularly scheduled classes. Scheduling of this course must be approved by the Head of the Department of Art.

HONORS WORK

H-500. HONORS COURSE.

ASTRONOMY

(See Physics and Astronomy)

BACTERIOLOGY

(See Biology)

BIOLOGY

(Baldwin Hall, North Campus)

Head: Boyd. Chairman: Lund. Staff: Anderson, Burkhart, Byrd, Calkins, Hamilton, Kitchin, Nuttycombe, Odum, Schoenborn, Scott.

BACTERIOLOGY

350. INTRODUCTORY BACTERIOLOGY. Two lectures or recitations and three double laboratory periods. Breakage deposit, \$2.50. Prerequisites: Chemistry 21-22 and two courses in biological science. *Mr. Burkhart* and *Mr. Calkins.*

Offered for students in agriculture, home economics, pharmacy, nursing education, and B.S. in Chemistry. Consists of the fundamental principles of bacteriology.

351. BACTERIOLOGY. Two recitations or lectures and three double laboratory periods. Breakage deposit, \$2.50. Prerequisite: Bacteriology 350. *Mr. Burkhart* and *Mr. Calkins.*

Includes physiology and classification of bacteria (continued from course 350) and an introduction to sanitary bacteriology and serology.

Admission to the following courses is limited by the availability of space and materials.

400. **GENERAL BACTERIOLOGY.** Five double periods of laboratory, lecture and recitation. Breakfast deposit, \$2.50. Prerequisites: Chemistry 340a and Botany 21-22 or Zoology 25-26 and two acceptable advanced courses in these fields. *Mr. Calkins.*

Deals with the biology of the bacteria and the techniques employed in the study of them. Offered for B.S. students who have a satisfactory background in the biological sciences.

401. **BACTERIAL INFECTION.** Five double periods of laboratory, lecture and recitation. Breakage deposit, \$2.50. Prerequisite: Bacteriology 406. *Mr. Calkins.*

A study of several typical infections produced by bacteria, viruses and rickettsiae, emphasizing characteristics of the causative agents, mechanisms of infection, prevention and control.

402. **DAIRY BACTERIOLOGY.** Two recitations or lectures and three double laboratory periods. Breakage deposit, \$2.50. Prerequisites: Bacteriology 350 and 351. *Mr. Burkhardt.*

A study of the bacteria found in milk and dairy products with special emphasis upon their importance to the industry and their relation to the health of the public.

403. **SOIL BACTERIOLOGY.** Two recitations or lectures and three double laboratory periods. Breakage deposit, \$2.50. Prerequisites: Bacteriology 350 and 351. *Mr. Burkhardt.*

Special emphasis is placed upon the study of soil bacteria of economic significance.

405. **FOOD BACTERIOLOGY.** Two recitations or lectures and three double laboratory periods. Breakage deposit, \$2.50. Prerequisites: Bacteriology 350 and 351. *Mr. Burkhardt.*

Deals with the bacteria of foods from the standpoint of their economic significance and their relation to the spread of disease.

406. **IMMUNOLOGY.** Five double periods of laboratory, lecture and recitation. Breakage deposit, \$2.50. Prerequisite: Bacteriology 400. *Mr. Calkins.*

An introduction to the principles of serology, hypersensitivity, and resistance to infection.

BIOLOGY

1-2. **HUMAN BIOLOGY.** Double course. 10 hours (5 hours a quarter). Four lectures and one demonstration period. *Mr. Kitchin and the Staff.*

The aim of this course is to give the student some acquaintance with vital phenomena in general and their application to the human organism. The first half of the course will deal particularly with the problems of the individual. Its subject matter will include an introduction to the fundamental facts of biology, human anatomy, and physiology and the maintenance of health in the individual. The second half will deal with the problems of the racial life of man. In this phase of the course will be included studies of public health problems, reproduction, genetics and eugenics, and development of the race.

10-11-12. **BIOLOGY.** 9 hours. Six lectures or recitations and three three-hour laboratory periods. *The Staff.*

An introductory study of human anatomy and physiology. Given for students in Nursing Education. (Offered in two quarters in the Atlanta Division.)

370. **GENETICS.** Two lecture and three double laboratory periods. Breakage deposit, \$2.50. Prerequisites: Botany 21-22 or Zoology 25-26. *Mr. Kitchin.*

The study of the laws of biological inheritance and the principles and theories associated with them.

440. **CYTOLOGY.** Two lecture and three double laboratory periods. Prerequisites: Biology 370, or equivalent, and one other approved senior division course. Credited toward a major in botany or zoology. *Mr. Westfall.*

The study of cells, their cytoplasm and nuclei, metabolism, growth, differentiation, and reproduction.

442. **CYTOGENETICS.** Two lecture and three double laboratory periods. Prerequisites: Biology 370, or equivalent, and Biology 440. Credited toward a major in botany or zoology. *Mr. Westfall.*

A course dealing with the correlation of genetic data and cytological structures and processes, emphasizing the mechanisms of normal chromosome distribution, chromosomal aberrations, and their relationship to the development of species.

ZOOLOGY

No student will be allowed to take as an elective a course numbered 300-399 in Zoology unless he has an average of C or above in all prerequisite courses.

25. GENERAL ZOOLOGY. Two lectures and three double laboratory periods. Breakage deposit, \$2.50. Prerequisites: Human Biology 1-2 or Botany 21-22. *Mr. Nuttycombe.*

A survey of the invertebrate animals, their biology, structure, and relation to other animals.

26. GENERAL ZOOLOGY. Two lectures and three double laboratory periods. Prerequisite: Zoology 25. *Mr. Odum.*

A study of the structure, body functions, interrelations, and natural history of the vertebrate animals.

312 a-b. HUMAN ANATOMY AND PHYSIOLOGY. 10 hours. Three lectures and two double laboratory periods. Prerequisites: Human Biology 1-2 and Chemistry 21-22. *Mr. Scott.*

Systematic study of the anatomy of the human body and the energy relationships of human physiology. For physical education and pharmacy majors only.

353. ANIMAL ECOLOGY. Two lectures and three double laboratory periods. Prerequisites: Zoology 25 and 26. *Mr. Odum.*

Deals with methods of study and identification of animals in the field, biotic and physical factors of the environment, animal communities, and the application of ecological principles to wildlife conservation and management. Biology of terrestrial animals will be emphasized.

355. EMBRYOLOGY. Two lectures and three double laboratory periods. Breakage deposit, \$2.50. Prerequisites: Zoology 25 and 26. *Mr. Nuttycombe.*

An elementary course in embryology in which the chick is used to illustrate the basic principles of developmental anatomy.

356. COMPARATIVE ANATOMY OF THE VERTEBRATES. Two lectures and three double laboratory periods. Prerequisites: Zoology 25 and 26. *Mr. Scott.*

A comparison of the structure and development of organ systems in the different vertebrate groups.

357. ANIMAL HISTOLOGY. Two lectures and three double laboratory periods. Breakage deposit, \$2.50. Prerequisites: Zoology 25 and 26. *Miss Hamilton.*

A comparative study of the microscopic anatomy of organ systems in representative types of animals.

361. HISTOLOGICAL TECHNIQUE. Five double laboratory periods. Breakage deposit, \$2.50. Open to majors in zoology only. *Miss Hamilton.*

A course offering training in the preparation of histological material, including practice in fixing, sectioning, staining, and mounting.

372. PARASITOLOGY. Three lectures and two double laboratory periods. Breakage deposit, \$2.50. Prerequisites: Zoology 25 and 26. *Mr. Byrd.*

A general study of the protozoa and worms parasitic in man and the lower animals.

373. GENERAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 25 and 26. *Mr. Lund.*

A field and laboratory study of the structure, biology, and classification of insects and of their general importance and significance to man.

374. ECONOMIC ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two courses in Human Biology, botany, or equivalent.

A course designed to provide the practical information essential for the recognition and control of the insect pests most commonly encountered in the field, orchard, garden, woodlot, and home.

375. FOREST ENTOMOLOGY. Three lectures and two double laboratory periods. *Mr. Lund.*

A study of the biology, identification, and control of the species of insects destructive to American forests.

376. MEDICAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 25 and 26. *Mr. Lund.*

A study of the biology, identification, and control of the species of insects and related arthropods of particular importance in the cause or transmission of diseases of man and the lower animals.

381. ORNITHOLOGY. Two lectures and three double laboratory periods. Prerequisites: Zoology 25 and 26. *Mr. Odum.*

An introduction to the study of birds, emphasizing the identification, classification, life histories, and economic importance of Georgia species.

401. ICHTHYOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 25 and 26, and any two courses in zoology numbered above 300. *Mr. Scott.*

A study of the taxonomy, distribution, ecology, and evolution of fishes with special reference to the marine and freshwater fishes of eastern North America.

403. MAMMALOLOGY. Three lectures and two double laboratory periods. Prerequisite: Zoology 25 and 26, and two courses in zoology numbered above 300. *Mr. Odum.*

A study of the taxonomy, distribution, ecology, and evolution of mammals with special emphasis on land mammals of Southeast.

406. CELLULAR PHYSIOLOGY. Three lectures and two double laboratory periods. Prerequisite: Chemistry 346 or equivalent, Zoology 25, 26, and two zoology courses numbered above 300. Breakage deposit, \$5.00. *Mr. Schoenborn.*

The cell will be used as a unit to study the nature and mechanism of physiological processes.

408. VERTEBRATE PHYSIOLOGY. Three lectures and two double laboratory periods. Breakage deposit, \$5.00. Prerequisites: Zoology 25 and 26, and two courses in zoology numbered above 300. *Miss Hamilton.*

A study of physiological processes in the vertebrates.

410. ENDOCRINE PHYSIOLOGY. Three lectures and two double laboratory periods. Breakage deposit, \$5.00. Prerequisites: Zoology 25 and 26, and two courses in zoology numbered above 300. *Miss Hamilton.*

The general physiology of the glands of internal secretion and their hormones.

454. AQUATIC BIOLOGY. Two lectures and three double laboratory periods. Prerequisite: Zoology 25, 26, and two zoology courses numbered above 300. *Mr. Scott.*

A study of the fresh-water habitat, dealing primarily with the principles of limnology, factors influencing the distribution and production of aquatic organisms, and the application of these to fisheries and allied problems. Laboratory is devoted to the study of the various types of aquatic habitats in the field.

473. ADVANCED GENERAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisite: Zoology 373. For graduate credit, one additional senior division course is required. *Mr. Lund.*

An advanced treatment of general entomology including biological nomenclature, insect evolution and classification, sensory physiology, and other special topics.

474. ADVANCED ECONOMIC ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisite: one of the following zoology courses: 373, 374, 375, or 376. For graduate credit, one additional senior division course is required.

An advanced treatment of economic entomology including actual field work in experimental methods, biological control, and the insect transmission of plant diseases.

477. CHEMISTRY AND TOXICOLOGY OF INSECTICIDES AND FUNGICIDES. Three lectures and two double laboratory periods. Prerequisites: one course in organic chemistry and one of the following zoology courses: 373, 374, 375, or 376. For graduate credit, one additional senior division course is required.

A study of the physical and chemical behavior of insecticides, and accessory materials and of their toxicological effects upon plants and animals.

800. ZOOLOGY SEMINAR. 1 hour. Prerequisite: Undergraduate major in zoology. *Staff.*

Weekly meetings for full year devoted to discussions of current literature dealing with research in zoology.

801. PARASITIC PROTOZOA. Prerequisite: Undergraduate major in zoology. *Mr. Boyd.*

A study of morphology, life histories, classification, and parasitic relationships of protozoan parasites of man and the lower animals.

803. **HELMINTHOLOGY.** Prerequisite: Undergraduate major in zoology. *Mr. Byrd.*

A study of the morphology, life histories, classification, and parasitic relationships of the flatworms and roundworms.

805. **INSECT PARASITES.** Prerequisites: Zoology 376 and one additional senior division course in zoology. *Mr. Lund.*

An advanced study of the structure, life-histories, and identification of those insects and related arthropods which cause or transmit disease in man or lower animals.

807. **ADVANCED INVERTEBRATE ZOOLOGY.** Five double periods. Prerequisite: Undergraduate major in zoology. *Mr. Byrd, Mr. Nuttycombe, Mr. Odum, Mr. Schoenborn, and Mr. Scott.*

Deals with the morphology, taxonomy, phylogeny and general biology of the following phyla: Protozoa, Porifera, Coelenterata, Ctenophora, Platyhelminthes, Nematelminthes, Minor Acoelomate Phyla.

808. **ADVANCED INVERTEBRATE ZOOLOGY.** Five double periods. Prerequisite: Zoology 807. *Mr. Byrd, Mr. Kitchin, Mr. Nuttycombe, Mr. Odum, and Mr. Scott.*

Deals with the morphology, taxonomy, phylogeny and general biology of the following phyla: Annelida, Mollusca, Echinodermata, Arthropoda, Minor Coelomate Phyla.

809. **INVERTEBRATE PHYSIOLOGY.** Three lectures and two double laboratory periods. Breakage deposit, \$5. Prerequisite: Undergraduate major in zoology. *Mr. Schoenborn.*

A comparative study of physiological processes among invertebrate animals.

854. **PHYSIOLOGICAL ECOLOGY.** Prerequisite: Undergraduate major in zoology. *Mr. Odum.*

This course will emphasize the use of analytical and experimental methods in the study of the relation of environmental factors to behavior and distribution of animals in nature.

900. **PROBLEMS IN ZOOLOGY.** *The Staff.*

This course allows students to work intensively on problems in an approved field of zoology.

HONORS WORK

H-500. HONORS COURSE.

BOTANY

(Baldwin Hall, North Campus)

Head: Westfall: Staff: Beck, Carlton, Duncan, Jacobs, Wilson.

21. **ELEMENTARY BOTANY.** Three one-hour lecture periods and two two-hour laboratory periods. *Mr. Carlton and the Staff.*

A study of (a) the structure of leaves, stems, and roots; (b) growth and nutritive processes of plants; and (c) the relations of plants to their environment.

22. **ELEMENTARY BOTANY (continued).** Three one-hour lecture periods and two two-hour laboratory periods. *Mr. Carlton and the Staff.*

A study of reproduction, variation, heredity, and evolution of seed plants, with studies of representatives of the other major plant groups and their importance.

305. **IDENTIFICATION OF FLOWERING PLANTS.** Five double laboratory periods or field trips. Prerequisites: Botany 21-22.

Studies in the identification of plants with emphasis on local flowering plants and their relationships.

323. **ELEMENTARY PLANT ANATOMY.** Five two-hour laboratory periods. Prerequisites: Botany 21-22.

The origin and development of the organs and tissue systems of vascular plants, and a comparative study of the structure of roots, stems, leaves, flowers, and fruits.

358. **METHODS IN PLANT HISTOLOGY.** Five double laboratory periods. Prerequisites: Botany 21-22.

Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant materials for microscopic study.

375. **PLANT ECOLOGY.** Five double laboratory-discussion periods and field trips. Prerequisites: Botany 21-22.

The relation of plants and plant communities to the environment in which they grow.

380. **PLANT PHYSIOLOGY.** Five double laboratory periods. Prerequisites: Botany 21-22. Breakage deposit, \$2.50.

A survey of physiological processes occurring in economic plants and the conditions which effect these processes.

406. **TAXONOMY OF WOODY PLANTS.** Five double laboratory periods. Prerequisites: Botany 21-22 and any two senior division courses in botany or approved courses in plant pathology, forestry, or geography.

Studies in identification and relationships of Georgia trees and shrubs, with emphasis on identification in winter.

420. **FIELD AND LABORATORY BOTANY.** Two lectures and three double laboratory periods and special field trips. Prerequisites: Botany 21-22 or equivalent and two senior division courses in botany or education.

A course in field botany designed especially for teachers and prospective teachers. Particular emphasis is placed upon the identification of local flowering plants and ferns, and upon the selection and use of materials for correlating the study of plants with other subjects.

431. **MORPHOLOGY OF SEED PLANTS.** Five double laboratory periods. Prerequisites: Botany 323 and one other senior division course in botany or plant pathology.

Critical studies of representative seed plants, considering their development and relationships.

440. **CYTOLOGY** (See Biology 440).

442. **CYTOGENETICS** (See Biology 442).

471. **TAXONOMY OF SEED PLANTS.** Five double laboratory periods. Prerequisites: Botany 305 and any other senior division course in botany or approved course in plant pathology, forestry, or geography.

A study of the concepts and system of classification, problems of nomenclature, and the taxonomy of specialized groups.

472. **TAXONOMY OF SEED PLANTS (continued).** Two lectures and three double laboratory periods. Prerequisite: Botany 471.

A continuation of Botany 471.

473. **AGROSTOLOGY.** Five double laboratory periods. Prerequisites: Botany 21-22 and two senior division courses in botany, or approved courses in plant pathology, agronomy, or forestry.

A study of the grasses with emphasis on structure, classification, and ecological relationships.

476. **(GEOGRAPHY) VEGETATION OF NORTH AMERICA.** Four lectures and one two-hour laboratory period. Prerequisites: Botany 21-22, Botany 375, and one other senior division course in botany or acceptable course in geology and geography.

A study of the past and present distribution of the major vegetation types in North America together with the analysis of the factors affecting this distribution. A study of indicator plants and land utilization is included.

480. **GENERAL PHYSIOLOGY.** Three lectures and two double laboratory periods. Prerequisites: Botany 21-22 or Zoology 26, and Chemistry 22-23 and 346 or its equivalent. Breakage deposit, \$5.

The lectures include a study of the physical and chemical bases of living protoplasm; the laboratory work includes the use of analytical measurements and determinations of physiological phenomena.

482. **NUTRITION OF GREEN PLANTS.** Two lectures and three double laboratory periods. Prerequisites: Botany 323 and 380. Breakage deposit, \$5.

A study of the nutrition of the higher plants, including major and minor elements and deficiency symptoms.

483. **ADVANCED PLANT PHYSIOLOGY.** Five double laboratory periods. Prerequisites: Botany 380 and any other senior division course in botany, chemistry, or plant pathology. Breakage deposit, \$5.

An evaluation of accepted concepts in plant physiology with special attention to the methods employed in arriving at these concepts.

802 and 804. **PROBLEMS IN BOTANY.** 5 hours for each course. Under this heading work may be pursued under the direction of staff members in plant anatomy, plant ecology, plant morphology, plant physiology, plant taxonomy, or mycology. Prerequisite: two senior division courses in botany or approved courses in agriculture, geography, or forestry.

877. **ECOLOGICAL ANATOMY.** Three lectures and two two-hour laboratory periods. Prerequisites: Botany 21-22 and two senior division plant science courses.

A study of relationships between plant structure and environment, including a detailed ecological classification of plants together with microscopic examination of the structure of representative examples of each type discussed and a consideration of genetic and somatic adaptations.

CHEMISTRY

(Terrell Hall or Chemistry Annex, North Campus; Conner Hall, South Campus)

Head: Scott. Staff: Bailey, Brockman, Coggin, Philbrook, Smith, Spell, Van Antwerp, Whitehead, Wilder.

INORGANIC CHEMISTRY

21, 22. **GENERAL CHEMISTRY.** Four lectures or recitations and one laboratory period per week each quarter. Breakage deposit, \$5 for each course. *The Staff and Assistants.*

The first course covers the chemistry of the non-metallic elements, including a systematic treatment of chemical principles and their applications. The second course is a continuation of the first course, including a general survey of the metallic elements.

370, 371. **INDUSTRIAL CHEMISTRY.** Five lectures per week each quarter. Prerequisites: 370—Chemistry 22 and one other chemistry course with laboratory; 371—Chemistry 346 or equivalent. *Mr. Brockman.*

The first course covers important chemical processes and recent chemical developments in various inorganic chemical industries. The second course deals with the important chemical processes and recent developments in various organic chemical industries.

420, 421. **ADVANCED INORGANIC CHEMISTRY.** Five lectures or recitations per week each quarter. Prerequisites: 420—Chemistry 22 and two other chemistry courses with laboratory; 421—Chemistry 23 and one other chemistry course with laboratory. *Mr. Brockman or Mr. Whitehead.*

These courses comprise a comprehensive treatment of atomic structure, molecular structure and theories of valence; the second course emphasizes the periodicity of the chemical properties of the elements.

422. **ADVANCED INORGANIC PREPARATIONS.** One lecture and four laboratory periods. Prerequisites: Chemistry 22 and two other chemistry courses with laboratory. Breakage deposit, \$5. *Mr. Brockman.*

Selected syntheses of inorganic compounds.

ANALYTICAL CHEMISTRY

23. **QUALITATIVE INORGANIC ANALYSIS.** Two lectures or recitations and three laboratory periods. Prerequisite: Chemistry 22. Breakage deposit, \$5. *Mr. Spell, Mr. Whitehead, Mr. Wilder, and Assistants.*

The fundamental theories of qualitative analysis and analyses of common cations and anions by semi-micro methods.

380. **QUANTITATIVE INORGANIC CHEMISTRY.** Two lectures and three laboratory periods. Prerequisite: Chemistry 23. Breakage deposit, \$5. *Mr. Spell, Mr. Whitehead, and Assistants.*

The fundamental theories of quantitative analysis and typical analyses involving volumetric and gravimetric methods.

480, 482. **ADVANCED QUANTITATIVE ANALYSIS.** One or two lectures and four or three laboratory periods per week each quarter. Prerequisites: 480—Chemistry 380; 482—Chemistry 480 or 481. Breakage deposit, \$10 (\$5 each quarter). *Mr. Whitehead and Assistant.*

These courses cover more advanced work in quantitative analyses. They include systematic analyses, organic precipitants, potentiometric methods, electrolytic analyses, and microscopic methods.

481. **COMMERCIAL ANALYSIS.** One or two lectures and four or three laboratory periods. Prerequisites: Chemistry 380 and 340a-b. Breakage deposit, \$5. *Mr. Whitehead and Assistant.*

Qualitative and quantitative analyses of water, alcohols, sugars, nitrogen compounds, saponifiable oils and hydrocarbon products, using standard commercial methods. The theoretical basis of each method is given.

483h, 484h. **INSTRUMENTAL METHODS OF ANALYSIS.** 3 hours each quarter. One lecture and two laboratory periods. Prerequisites: Chemistry 380 and one year of physics. Breakage deposit, \$5. *Mr. Spell and Assistant.*

These courses cover the use of special instruments for analysis. These include refractometers, electrophotometers, spectrophotometers, polarograph, and electrical instruments.

AGRICULTURAL CHEMISTRY AND BIOCHEMISTRY

(See College of Agriculture for these courses.)

ORGANIC CHEMISTRY

340 a-b. **ORGANIC CHEMISTRY.** 10 hours. Three or four lectures or recitations and one or two laboratory periods each quarter. Prerequisite: A grade of 70 or better in Chemistry 21, 22. Breakage deposit, \$10 (\$5 each quarter). *Mr. Scott, Mr. Coggin, Mr. Philbrook, and Assistants.*

Chemistry 340a. The aliphatic hydrocarbons and their derivatives.

Chemistry 340b. A continuation of 340a and a treatment of the coal tar compounds.

346. **ELEMENTS OF ORGANIC CHEMISTRY.** (For agricultural and home economics students). Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 22, or with consent of the Head of the Department. Breakage deposit, \$5. *Mr. Coggin, Mr. Philbrook, Mr. Wilder, and Assistants.*

A brief introduction to organic chemistry.

440. **ADVANCED ORGANIC PREPARATIONS.** One consultation and four laboratory periods. Prerequisite: A grade of 80 or better in Chemistry 340a-b. Breakage deposit, \$5. *Mr. Scott and Mr. Philbrook.*

Selected syntheses, such as Grignard, Friedel and Craft. Acetoacetic ester and others; also oxidations, reductions, and condensations.

441. **ORGANIC QUALITATIVE ANALYSIS.** One consultation and four laboratory periods. Prerequisite: Chemistry 440. Breakage deposit, \$5. *Mr. Scott and Mr. Philbrook.*

Identification of pure organic compounds and of mixtures.

442. **ORGANIC QUANTITATIVE ANALYSIS.** One consultation and four laboratory periods. Prerequisites: Chemistry 441 and 380. Breakage deposit, \$5. *Mr. Spell.*

Quantitative analysis of organic compounds for carbon, hydrogen, oxygen and nitrogen by combustion; the determination of halogens and sulfur by the bomb method. Both macro and micro methods are available.

430h, 443h, 446h, 447h. **SPECIAL TOPICS IN ORGANIC CHEMISTRY.** 3 hours each quarter. Three lectures or recitations. Prerequisite: Chemistry 340b. *Mr. Philbrook or Mr. Scott.*

These courses deal with special topics in organic chemistry such as stereochemistry (430h), alicyclic compounds (443h), organo-metallic compounds (446h), heterocyclic compounds or organic compounds of nitrogen (447h).

444h. **PHYSICAL METHODS IN ORGANIC CHEMISTRY.** 3 hours. One lecture and two laboratory periods. Prerequisites: Chemistry 340a-b, 490a-b, and 440, or 422. Breakage deposit, \$5. *Mr. Philbrook.*

The application of special topics in physical chemistry, such as drying, melting point theory, boiling point theory, distillation, extraction, crystallization, and absorption spectrophotometry, to the practice of Organic Chemistry.

445h, 448h. **ADVANCED ORGANIC CHEMISTRY.** 3 hours each quarter. Three lectures or recitations. Prerequisite: Chemistry 340b. *Mr. Philbrook* or *Mr. Scott.*

An advanced treatment of organic chemistry with special emphasis on theories, structure, and the mechanics of reactions.

PHYSICAL CHEMISTRY

390. **ELEMENTS OF PHYSICAL CHEMISTRY.** Five lectures or recitations. Prerequisites: Chemistry 23, 340a or 346, and general physics. *Mr. Bailey.*

A brief introduction to physical chemistry, designed primarily for pre-medical students.

400. **COLLOID CHEMISTRY.** Three lectures and two laboratory periods. Prerequisites: Chemistry 390, 340a or 346, and 380. Breakage deposit, \$5. *Mr. Whitehead.*

Fundamental theories of colloid chemistry with typical laboratory experiments.

490 a-b. **PHYSICAL CHEMISTRY.** 12 hours. Four lectures or recitations and two laboratory periods. Prerequisites: Chemistry 380 and 340a or 346, and Mathematics 355. Breakage deposit, \$10 (\$5 for each quarter). *Mr. Bailey.*

A two quarter course in the fundamental principles of physical chemistry and typical laboratory experiments.

491 a-b-c. **ADVANCED PHYSICAL CHEMISTRY.** 3 hours each quarter. Prerequisite: Chemistry 490b. *Mr. Bailey.*

The gaseous state, the liquid state, the solid state and changes of state (491a); phase equilibria, chemical equilibria and free energy, electrochemistry (491b); atomic structure, molecular structure and physical properties, chemical kinetics (491c).

493. **ADVANCED PHYSICAL CHEMISTRY.** 3 hours. Prerequisite: Chemistry 490b. *Mr. Bailey.*

Chemical thermodynamics.

495h. **ADVANCED PHYSICAL CHEMISTRY.** 3 hours. Two lectures and one laboratory period. Prerequisite: Chemistry 490a-b. Breakage deposit, \$5. *Mr. Bailey.*

A continuation of Chemistry 490a-b.

RESEARCH AND THESIS

449. **INTRODUCTION TO RESEARCH** (Field to be inserted). One lecture and four library or laboratory periods. Prerequisites: Chemistry 422 or 441 or 480 or 481 or 495h. Breakage deposit, \$5. *The Graduate Staff.*

An introduction to the literature of chemistry; research procedures, and directions which can be found only in original articles.

900. **LABORATORY RESEARCH IN CHEMISTRY** (Field to be inserted). 5 to 50 hours. Prerequisite: Chemistry 449. Breakage deposit, \$5 per five hours credit. *The Graduate Staff.*

930. **THESIS IN CHEMISTRY.** 5 to 50 hours. *The Graduate Staff.*

CLASSICS

(Robert E. Park Hall, North Campus)

Head: Alexander. Staff: Kaplan.

CLASSICAL CULTURE

All courses in this section are given in English translation.

301x. **CLASSICAL CULTURE: GREECE.** *Mr. Alexander.*

A study of the characteristics of Greek culture, made principally through translations of selections from Greek authors.

301y. **CLASSICAL CULTURE: ROME.** *Mr. Kaplan.*

A study of the characteristics of Latin culture, made principally through translations of selections from Latin authors.

354. THE GREEK ROMANCE. *Mr. Alexander.* (Offered in alternate years.) Study of the Greek prose romantic narratives; emphasis placed on the influence of the Greek romance on medieval literature and the development of the novel.

355. THEOCRITUS AND HIS AGE. *Mr. Alexander.* (Offered in alternate years. Not offered in 1951-52.)

Readings from Alexandrian poets; studies in Alexandrian scholarly and scientific achievements. Particular attention given to the influence of this period on later European literature and science.

356. HOMER AND THE EPIC TRADITION. *Mr. Alexander.* (Offered in alternate years.)

A detailed study of Homer and his influence in later European literature.

357. CLASSICAL DRAMA. *Mr. Alexander.* (Offered in alternate years. Not offered in 1951-52.)

Selected plays of Aeschylus, Sophocles, and Euripides, studied through their influence on later European literatures.

358. ROMAN LITERATURE IN TRANSLATION. *Mr. Kaplan.*

Detailed study of selected Latin authors with special emphasis on biography as a literary type.

801. GREEK CIVILIZATION. Prerequisite: ten hours of approved advanced courses in classics, modern languages, or literature; no knowledge of Greek required. *Mr. Alexander.*

A survey of Greek Civilization studied through literature in translation. Research problems in special subjects.

802. ROMAN CIVILIZATION. Prerequisite: ten hours of approved advanced courses in classics, modern languages, or literature; no knowledge of Latin required. *Mr. Alexander.*

A survey of Roman civilization studied through literature in translation. Research problems in special subjects.

GREEK

Freshmen may elect the three introductory courses to Greek.

201-202. ELEMENTARY GREEK. *Mr. Alexander.*

A double course meeting for two quarters in the elements of the Greek language; study of Greek history, geography, and social customs.

203. READINGS IN GREEK. Prerequisites: Greek 201 and 202. *Mr. Alexander.*

Selected readings from Greek authors.

304. HOMER. Prerequisites: Greek 201, 202, and 203 or equivalent. *Mr. Alexander.*

Detailed study of selections from the *Iliad* or the *Odyssey*.

LATIN

Freshmen may elect the three introductory courses in Latin. Students offering two entrance units in Latin from high school may begin with Latin 203.

201-202. ELEMENTARY LATIN. *Mr. Kaplan.*

A double course meeting for two quarters in the elements of the Latin language.

203. INTERMEDIATE LATIN. Prerequisites: Latin 201 and 202 or two high school units in Latin. *Mr. Kaplan.*

Selected readings from standard Latin authors; drill on forms and syntax.

304. READINGS IN LATIN. Prerequisite: Latin 203 or equivalent. *Mr. Kaplan.*

Selected readings from standard Latin authors. Grammar, drill, and review.

HONORS WORK

H-500. HONORS COURSE.

DRAMA

(See Speech and Drama)

ECONOMICS

5x. PRINCIPLES OF ECONOMICS. *The Staff.*

A description and critical analysis of the organization of modern society from an economic point of view, with a brief introduction to the theory of value and distribution.

This course is required of all sophomores in the College of Business Administration and A.B. majors in Economics. It is elective as a social science for all other students and may be taken without 5y.

5y. PROBLEMS OF ECONOMICS. Prerequisite: Economics 5x. *The Staff.*

Economic problems based upon the principles studied in 5x. Continuation of Economics 5x.

This course is required of all sophomores in the College of Business Administration and A.B. majors in Economics.

These two courses (5x and 5y) are prerequisite to all advanced courses in economics and business administration, except by special permission of the instructor.

312. ELEMENTARY ECONOMIC STATISTICS. *Mr. Sebba and Mr. Youngblood.*

An introduction to the presentation and analysis of quantitative economic data. Statistical sources, table reading, chart making; elementary statistical procedures and their economic interpretation; introduction to index numbers and time series analysis.

326. MONEY AND BANKING. *Mr. Moorhouse and Mr. Sutton.*

A study of the role of money in the economic organization; monetary theory; methods of stabilizing the price level; the integration of financial instructions; theories of bank deposits and elasticity of bank currency; discount policy and the interest rate of central banks; methods of regulating credit and business activities.

333. AMERICAN ECONOMIC HISTORY. *Mr. Bickner, Mr. Lorenz, and Mr. Petras.*

A survey of American economic development from the colonial period to the present; economic factors involved in American industrial growth and the resulting economic problems.

352. ECONOMICS OF AMERICAN INDUSTRY.

The chief economic characteristics of the leading manufacturing industries.

358. WORLD RESOURCES AND INDUSTRIES. *Mr. Prunty.*

The relation of geographic factors to economic conditions in determining the nature and location of the several productive occupations; the distribution of the output of the occupations. Special emphasis is placed upon the role of economic geography in conditioning international affairs.

360. PRINCIPLES OF MARKETING. *Mr. Hicks, Mr. Troelston, and Mr. Walker.*

Principles and methods involved in the movement of goods and services from producers to consumers; marketing functions; marketing manufactured goods, raw materials and agricultural products; proposals for improving the marketing structure.

361. MARKETING PROBLEMS. Prerequisite: Economics 360. *Mr. Hicks, Mr. Troelston, and Mr. Walker.*

A course in marketing and merchandising problems. Emphasis is placed upon the influence of buyers and consumers on merchandise policy; channels of distribution for consumer and industrial goods; brand policy; marketing organization and control methods; price policies and legislative regulation and diagnosis of marketing policies.

380. ECONOMICS AND THE INDIVIDUAL FIRM. Prerequisite: The Core Curriculum. *Mr. Gates.*

The application of economic analysis to the determination of company policy including the functions of an economic system; national income; economic fluctuations; business forecasting; risks and insurance; analysis and measurement of demand; behaviour of costs and price determination; competitive strategy; and capital budgeting.

386. LABOR PROBLEMS. *Mr. Bickner, Mr. Lorenz, and Mr. Segrest.*

A survey of wages, working conditions, unemployment, hours, workers' welfare plans, labor legislation, labor organization and current developments in labor.

406. ADVANCED ECONOMIC THEORY. *Mr. Petras and Mr. Smith.*

Designed especially for majors in economics. Application of theoretical tools to value, distribution, money, business fluctuations and the relationships between government and business.

434. PUBLIC FINANCE. *Mr. Brooks.*

A general consideration of American public expenditures, revenues, and fiscal administration.

435. STATE AND LOCAL PUBLIC FINANCE. Prerequisite: Economics 434. *Mr. Brooks.*

A detailed treatment of the revenues, expenditures, and fiscal administration of Georgia and its political subdivisions; fiscal comparisons of Georgia with other states; and an analysis of intergovernmental tax relationships.

436. BUSINESS CYCLES. *Mr. Sebba.*

An analysis of the economic and social significance of business fluctuations; causes of business cycles; measures for controlling cycles; the possibilities of business forecasting.

437. COMPARATIVE ECONOMIC SYSTEMS. *Mr. Sebba and Mr. Smith.*

A critical analysis and appraisal of the theories underlying economic systems, including the directed economies and economic planning. A comparison of proposed and existing schemes, with respect to the maintenance of full employment, distribution of income, and encouragement of progress.

441. PRINCIPLES OF PUBLIC ADMINISTRATION. *Mr. Hughes.*

A study of administrative organization, relationships, and controls in the United States.

442. PUBLIC PERSONNEL ADMINISTRATION. *Mr. Hughes.*

A study of civil service systems, their organization, procedure, and relationship.

443. PUBLIC FINANCIAL ADMINISTRATION. *Mr. Hughes.*

A study of the budgeting process, preparation and enactment of the budget, financial accountability and the audit.

444. GOVERNMENT AND BUSINESS. *Mr. Smith.*

A general survey of the economic aspects of business regulation by the government, with specific reference to regulatory developments and methods in the United States; other activities affecting business in general, as extension of loans and subsidies, maintenance of fact-finding agencies and government-owned corporations.

450. MONETARY POLICY. Prerequisite: Economics 326. *Mr. Moorhouse and Mr. Sutton.*

An advanced treatment of problems introduced in Economics 326; emphasis is placed on recent changes in our monetary and banking systems.

455. CONTEMPORARY ECONOMIC PROBLEMS. *Mr. Petras, Mr. Segrest, and Mr. Smith.*

The application of economic theory to certain problems of contemporary economic life, such as the problems of monopoly and its regulations, federal regulation and control in general, business cycles, protective tariffs, public finance, inflationary influences, and industrial conflict.

459. ECONOMIC GEOGRAPHY OF THE WORLD.

Economic and regional geography of Europe, Asia, Africa, and Australia, with a brief survey of the social, political and historical geography of major regions.

465. MARKETING RESEARCH AND ANALYSIS. Prerequisite: Economics 361. *Mr. Hicks.*

The scientific method in the construction of general marketing research studies and in the solution of specific distribution problems; qualitative market analyses; market trends; dealer analysis, data collection, tabulation and interpretation.

466. ECONOMICS OF CONSUMPTION. *Mr. Petras and Mr. Troelston.*

A study of the economics of the consumer market; the process of consumption, with special emphasis on factors that determine it; the position and responsibilities of the consumer; desirable controls of consumption.

475. ECONOMICS OF TRANSPORTATION. *Mr. Petras and Mr. Smith.*

A study of the economic principles of transportation with special emphasis on the history and regulation of railroads.

Majors in aeronautical administration will be required to complete additional assignments in air transportation.

477. PUBLIC UTILITIES. *Mr. Smith.*

A description of development, characteristics, rights, and duties of public utilities with special emphasis on the problems of regulation and rates, service, securities, holding companies, etc., in the electric utilities. Special consideration is given to activities of the Federal government in the power field.

480. INTERNATIONAL TRADE. *Mr. Petras, Mr. Sebba, and Mr. Smith.*

An examination of the economic importance and problems of international trade. An analysis of the theory of international trade is presented as a tool to be used in the consideration of the international problems of exchange rates and monetary standards, tariffs and other trade barriers, debts, and the position of international trade in the post-war world.

485. PERSONNEL ADMINISTRATION. Prerequisites: Psychology 1 and Economics 386. *Mr. Roman and Mr. Segrest.*

The principles and practices in the field of the administration of human relations in industry. Emphasis is given to scientific techniques and devices in the development of a well-rounded personnel program.

489. THE LABOR MOVEMENT. Prerequisite: Economics 386. *Mr. Biscoe and Mr. Segrest.*

An historical background of modern industrial relations; a study of the principal economic, social and political forces contributing to the current problems in the field of labor economics.

490. LABOR LEGISLATION. Prerequisite: Economics 386. *Mr. Segrest.*

A study of state and federal legislation in the field of industrial relations.

491. APPLIED ECONOMIC STATISTICS. Prerequisite: Mathematics 356 or Economics 312 and consent of major professor. *Mr. Sebba.*

Various statistical methods and techniques applied to economic fields such as marketing, advertising, labor management, production, banking, investments.

494. EUROPEAN ECONOMIC HISTORY. *Mr. Lorenz and Mr. Sebba.*

The development of the economic aspects of civilization in medieval and modern times; the evolution of economic institutions; the historical background of present economic problems.

GRADUATE COURSES

(Students interested in graduate work in the College of Business Administration should write to the Graduate School for a complete list of graduate offerings. The courses listed below are available for graduate students only. Courses numbered in the 400 series and listed in this bulletin are offered jointly to graduate and undergraduate students.)

ECONOMICS 807. THE HISTORY OF ECONOMIC THOUGHT. *Mr. Brooks.*

A review of the history of economic theory. The evolution of the important principles of economics, with emphasis laid on the history of the theories of value and distribution. Permission of the instructor required.

ECONOMICS 850. RESEARCH IN MONEY AND BANKING. *Mr. Moorhouse and Mr. Sutton.*

Individual research in money and banking. Permission of the instructor required.

ECONOMICS 860. SEMINAR IN MARKETING AND SALES ADMINISTRATION. *Mr. Hicks.*

Sales and marketing problems with emphasis upon current developments in wholesale and retail agencies. Individual problems are selected in line with the training and interest of each student. Permission of the instructor required.

ECONOMICS 890. INDEX NUMBERS. Prerequisites: Economics 312, Economics 491, and one senior division economics course. *Mr. Sebba.*

Index number construction and interpretation; a survey of the most important index numbers currently used in economic statistics.

ECONOMICS 891. RESEARCH IN APPLIED ECONOMIC STATISTICS. *Mr. Sebba.*
Individual research in the application of statistical methods to economic problems. Permission of the instructor required.

ECONOMICS 892. TIME SERIES ANALYSIS. Prerequisites: Economics 312, 491, 436. *Mr. Sebba.*

A study of statistical time series analysis and its application to economic analysis.

ECONOMICS 893. ECONOMICS SEMINAR. *The Staff.*

A research problem in the field of major concentration under personal supervision of the major professor. Permission of the instructor required.

ENGLISH

(Robert E. Park Hall, North Campus)

Head: Everett. Staff: Appleby, Beaumont, Bennett, Brown, Cox, Davidson, Doster, Dumas, Eidson, E. R. McWhorter, H. B. McWhorter, Palmour, Parks, Tate, Thornton, Tilley, Walker, Wallis, West.

English 2 x-y and English 22 x-y are prerequisite to all other English courses.

2 x-y. COMPOSITION. 10 hours (5 hours a quarter). *Miss Dumas and the Staff.*

First quarter: grammar, punctuation, mechanics, diction, and sentence structure. Second quarter: readings from English and American literature. Themes and parallel reading required throughout the course. Conferences on themes and reading.

6. ORAL AND WRITTEN COMPOSITION. *Miss Dumas and the Staff.*
Required of students in agriculture and agricultural engineering.

22 x-y. EUROPEAN LITERATURE. 10 hours (5 hours a quarter). Prerequisite: English 2 x-y. *Mr. West and the Staff.*

A survey of European literature from Homer to the twentieth century.

303. ENGLISH LITERATURE TO 1800. *Mr. Wall.*

A general course in English literature designed to give any student a broad knowledge of the subject. English 303 and English 304 together offer a full survey of English literature, but either or both of these courses may be taken. They are urgently recommended for students who intend to major in English.

304. ENGLISH LITERATURE AFTER 1800. *Mr. Wall.*

Continuation of English 303.

305. LYRIC POETRY. *Mr. Davidson.*

A study of the types, techniques, and interpretations of poems selected from English and American literature.

310. ADVANCED GRAMMAR AND SYNTAX. This course is recommended to students interested in teaching or in writing. *Miss Dumas.*

343. CONTEMPORARY DRAMA. *Mr. West.*

359. THE ENGLISH BALLAD. *Mr. Walker and Mr. Hodgson* jointly.

This course concerns itself with both texts and music.

361. THE SHORT STORY. *Mr. Eidson.*

A history of the short story as a literary form.

375. HISTORY OF THE ENGLISH NOVEL. *Mrs. McWhorter.*

380. THE MODERN NOVEL. *Mrs. McWhorter.*

400. OLD ENGLISH. *Mr. Brown.*

A study of the language and literature of England before the Norman Conquest, with reading of selected texts.

402. CHAUCER. *Mr. Brown.*

A study of the Canterbury Tales, Trollos and Criseyde, and minor poems.

403. MILTON. *Mr. Davidson.*

A study of the work and times of John Milton.

404. THE AGE OF POPE. *Mr. Davidson.*

A study of the works of Pope, Defoe, Addison, Steele, and Swift.

405. THE AGE OF JOHNSON. *Miss Dumas.*

A study of the works of Samuel Johnson and his most important contemporaries.

406. THE ROMANTIC MOVEMENT. *Mr. Everett.*

A study of the major poets of the early nineteenth century.

407. THE ENGLISH DRAMA TO 1642. *Mr. West.*

A study of the English drama (exclusive of Shakespeare) from the beginning to the closing of the theatres.

410. HISTORY OF THE ENGLISH LANGUAGE. *Mr. Brown.*

The development of English from its beginning to the present time.

420. AMERICAN LITERATURE TO 1865. *Mr. Eidson and Mr. Parks.*

A survey of literary works and the main intellectual currents.

422. AMERICAN LITERATURE AFTER 1865. *Mr. Eidson and Mr. Parks.*

425. ROMANTICISM IN AMERICAN LITERATURE. *Mr. Eidson and Mr. Parks.*
A study of the works of Emerson, Whitman, and Hawthorne.

427. REALISM IN AMERICAN LITERATURE. *Mr. Eidson and Mr. Parks.* (Not offered in 1951-52.)

A study of the works of Mark Twain, Henry James, and William Dean Howells.

429. SOUTHERN LITERATURE. *Mr. Eidson and Mr. Parks.*

A survey of the intellectual thought and literary achievement in the South from 1610 to the present time, with emphasis upon Poe, Timrod, and Lanier.

440. SHAKESPEARE TO 1600. *Mr. Walker.*

Romeo and Juliet; A Midsummer Night's Dream; The Merchant of Venice; King Richard the Second; King Henry the Fourth, Part I; Much Ado About Nothing; As You Like It; Hamlet.

441. SHAKESPEARE AFTER 1600. *Mr. Walker.*

Twelfth Night; Macbeth; King Lear; Antony and Cleopatra; Coriolanus; The Winter's Tale; The Tempest.

442. EARLY VICTORIAN LITERATURE. *Mr. Everett.*

A study of the works of Carlyle, Tennyson, and Browning.

451. MUSIC AND LITERATURE. *Mr. Brown.*

A comparative study of the forms, relationships, and aesthetics of music and literature. Admission by consent of the instructor.

452. LATE VICTORIAN LITERATURE. *Mr. Everett.*

A study of the works of Arnold, Ruskin, and Swinburne.

FINE ARTS

(Fine Arts Building, North Campus)

Given under the general direction of the Chairman of the Division of Fine Arts.

300. MUSIC AND THE VISUAL ARTS. No credit will be allowed for Fine Arts 300 when credit is already shown for Art 317 and Music 343. *Mr. Dodd and Mr. Hodgson.*

Nature and materials of the visual arts in their relation to man, with emphasis on the influence of art products in contemporary living and thinking. A field of study comprising painting, sculpture, architecture, graphic arts, arts of industry and commerce. Also a study of works of outstanding figures in music taken chronologically.

FRENCH

(See Modern Foreign Languages)

GEOGRAPHY and GEOLOGY

(LeConte Hall, North Campus)

Head: Prunty. Staff: Hart, Lahey, Mather, Parizek, Zelinsky.

HUMAN AND REGIONAL GEOGRAPHY

Note: Courses listed below carry credit as social sciences and a major selected primarily from the following courses leads to an A.B. degree.

101. WORLD HUMAN GEOGRAPHY. *Mr. Mather and the Staff.*

A survey of world human geography, emphasizing population characteristics, distribution of economic activities and geo-political problems within the major natural regions. Particular emphasis will be placed upon the regions of Eurasia as a basis for appreciation of international affairs.

341. PROBLEMS IN POLITICAL GEOGRAPHY. Prerequisite: Geography 101 or History 110 x-y. *Mr. Hart.*

A survey of geographic influences upon the nature and history of states and nations. Especial attention will be devoted to geo-political conditioning of international affairs since 1917.

352. GEOGRAPHY OF ANGLO-AMERICA. Prerequisite: Geography 101 or History 110 x-y. *Mr. Mather.*

A regional analysis of the human geography of the United States, Canada, Alaska, and the continental possessions of Britain, emphasizing the physical and economic factors affecting the utilization of the several regions. Particular stress will be given the Southeastern States.

358. ECONOMIC GEOGRAPHY. Prerequisite: Geography 101, History 110 x-y, or one course in Economics. *Mr. Prunty.*

Study of the relation of geographical and geological factors to economic conditions in determining the nature, volume of production, and location of the various basic productive occupations. Stress upon occupations dealing with output of raw materials. Analysis of transportation, distribution, and marketing of materials analyzed in terms of effects upon nature of their production. Particular emphasis upon natural resources and industries of the U. S. Southeast, their actual and potential development. Concluding section on role of geographical and geological factors in influencing international trade.

365. GEOGRAPHY OF SOUTHEAST ASIA. Prerequisite: Geography 101 or History 110 x-y. *Mr. Zelinsky.*

A regional analysis of the physical geography and problems in the economic and political geography of Southeast Asia. Emphasis on Japan, China, and India.

436. HUMAN AND RESOURCE GEOGRAPHY OF THE SOUTHEASTERN UNITED STATES. Prerequisite: Ten hours in courses from one of the following departments: Geography and Geology, History, or Economics. *Mr. Prunty* or *Mr. Zelinsky.*

Geographical appraisal of the regions of the Southeastern States, including (1) physical resources—geology, landforms, soils, climates, economic minerals, original vegetation, and (2) human geography of the South emphasizing aboriginal settlement, routes and sources of settlement and population, agriculture, the extractive industries, transportation, and present urban settlement. Concluding section of course summarizes some major problems of Southeastern development and suggests geographical approaches to their solution.

441. CARIBBEAN AMERICA. 3 hours. Prerequisite: 10 hours in Geography and Geology, or an equivalent background in either Spanish or History. *Mr. Lahey* or *Mr. Prunty.*

A regional analysis of the geography of the Caribbean Area, including Caribbean South America, the West Indies, Middle America and Mexico, with emphasis upon the cultural and economic ties of the American South with the Caribbean area. This course will meet on alternate days with Geography 442—SOUTH AMERICA—and should be taken in the same quarter with Geography 442.

442. SOUTH AMERICA. 3 hours. Prerequisite: 10 hours in Geography and Geology, or an equivalent background in either Spanish or History. *Mr. Mather.*

A regional analysis of the geography of equatorial and southern South America including treatment of physical, cultural, and economic characteristics of the several regions within the South American nations. Particular stress upon the prospects for expansion of settlements, development of resources and growth of industries. This course will meet on alternate days with Geography 441—CARIBBEAN AMERICA—and should be taken in the same quarter with Geography 441.

444. EUROPE AND THE MEDITERRANEAN. Prerequisite: 10 hours in Geography and Geology, or an equivalent background in History or Modern Languages. *Mr. Hart.*

A regional analysis of the human geography of peninsular, western, and central Europe and the Mediterranean Basin, emphasizing physical, ethnographic, and economic factors affecting the utilization and political problems of the several nations.

446. GEOGRAPHY OF THE SOVIET UNION. Prerequisite: 10 hours in Geography and Geology, or an equivalent background in Modern Languages or History. *Mr. Hart.*

A regional analysis of the physical, ethnographic and economic geography of the U. S. S. R. designed to evaluate the industrial and political strength of the Soviet Union.

TECHNIQUES AND METHODS IN GEOGRAPHY AND GEOLOGY

350. CARTOGRAPHY AND GRAPHICS. Five laboratory periods. *Mr. Hart* or *Mr. Zelinsky*.

Theory and practice in map and chart design and construction. Emphasis on compilation techniques, use of source data for map construction, application of aerial photos to mapping problems, graphic presentation of statistical materials. Includes practice in use of all basic cartographic instruments, construction of basic types of geographical, geological, and statistical maps. Intended for the student who has had no training in mapping or drafting procedures.

420. USE AND INTERPRETATION OF AERIAL PHOTOGRAPHS. Two lectures and three laboratory periods. Prerequisites: 4 or more quarters of forestry or agriculture, Geography 350 and one other 300 level course, or permission of the instructor. *Mr. Hart* or *Mr. Zelinsky*.

Analysis of theory and procedures in use of aerial photos for mapping, planning, terrain and contour identification, forest and vegetation identification. Procedures in correction of photo errors, for preparation of base-maps, will be stressed. The student will be trained, through laboratory periods, in use of standard photogrammetric instruments, and in planning photo-reconnaissance of sample areas.

421. ADVANCED CARTOGRAPHY LABORATORY. Five laboratory periods. Prerequisite: Geography 350 or 420, or the equivalent. *Mr. Zelinsky*.

Laboratory instruction on individualized cartographic or graphic problems related to the major interests of the student. Recommended for students, in fields other than geography, whose subject-areas can be enhanced by cartographic procedures.

422. ADVANCED PHOTOGRAMMETRY LABORATORY. Five laboratory periods. Prerequisite: Geography 420 or equivalent. *Mr. Zelinsky*.

Laboratory instruction on individualized photogrammetric problems related to the major interests of the student. Recommended for students, in fields other than geography, to which photogrammetry applies, such as forestry, agronomy, agricultural engineering, botany, landscape architecture, geology. Students will be required to acquire mastery in use of advanced photogrammetric instruments.

425. FIELD METHODS IN GEOGRAPHY AND GEOLOGY. 3 hours. Prerequisites: 15 hours in Geography and Geology courses numbered above 200 including Geography 350, plus at least a B average in junior-senior major courses. *Mr. Lahey* and *the Staff*.

Basic methods in measurement, observation, recording, and synthesis of field data in Geography and Geology. Complete field analysis of all features in one small type-area will be required, including completed maps of publication standard and a written report in which all recorded data are correlated and synthesized.

429. AREA ANALYSIS METHODS IN RESOURCE DEVELOPMENT. 3 hours. Prerequisite: 10 hours in courses numbered above 200 in Geography and Geology, or in Economics, or equivalent. Background in cartography or statistics is very desirable. *Mr. Prunty* and *the Staff*.

Semi-independent application of area-analysis techniques to selected problems in the development of mineral properties, or raw-material producing regions, to industrial plant locations, and to location and evaluation of market regions. Typical analysis problems will be selected to fit individual student interests, but application of at least ten basic methods will be required of each student.

800. SEMINAR IN GEOGRAPHICAL METHODS. 2 hours. *Mr. Prunty*.

Required for graduate majors in geography. Research methods and aids, philosophical bases of geographical methods, contemporary problems in geographical methods principally as related to regional and economic geography.

GEOLOGY AND PHYSICAL GEOGRAPHY

Note: Courses listed below carry credit as physical sciences. Courses 121, 122, and 310 do not carry laboratory science credit. A major selected primarily from the following courses leads to a B.S. degree and must include a minimum of 20 hours in Geology credit courses.

25. ELEMENTS OF GEOLOGY (PHYSICAL). Three lectures and two laboratory periods. *Mr. Lahey* and *the Staff*.

Fundamentals of physical geology, including origin and composition of the primary earth materials, agents of erosion, sedimentation, metamorphism, modes of occurrence of the common economic minerals, and analysis of the common crustal structures.

26. ELEMENTS OF GEOLOGY (HISTORICAL). A continuation of Geology 25. Three lectures and two laboratory periods. *Mr. Parizek and the Staff.*

Historical principles in geology, including floral, faunal, bio-geographic, and stratigraphic relationships of the several geologic epochs.

121. THE NATURAL ENVIRONMENT (PHYSICAL GEOGRAPHY). *Mr. Hart and the Staff.*

A systematic analysis of major features of the natural environment and their interrelations, stressing common rocks, land forms, geomorphic and water-resource characteristics within the major landforms, distribution and characteristics of the major residual soils types.

122. THE NATURAL ENVIRONMENT (PHYSICAL GEOGRAPHY). A continuation of Geography 121. *Mr. Lahey and the Staff.*

Evaluation of weather fundamentals, climatic, vegetative, and water resource phenomena, and their ecological relationships within the physical environment as illustrated by selected areas.

310. CONSERVATION OF NATURAL RESOURCES. *Mr. Hart or Mr. Prunty.*

A survey of resource problems and related conservation techniques in the United States. Particular emphasis is to be placed upon the resource conservation problems of the Southeastern States.

321. MINERALOGY AND CRYSTALLOGRAPHY. 3 hours. One lecture and two laboratory periods. Prerequisite: Geology 25-26. *Mr. Parizek.*

A study of the physical and chemical properties of minerals, their rock-associations, modes of occurrence, industrial uses. Study of the properties of crystals, crystal systems and geometrical characteristics, abnormalities in mineral-crystal structure.

323. PETROLOGY. 3 hours. One lecture and two laboratory periods. Prerequisite: Geology 321. *Mr. Parizek.*

Origins of the sedimentary, igneous, and metamorphic rocks, modes of occurrence, chemical and physical changes to which rocks are subject. Systematic and descriptive analysis of rocks.

332. STRUCTURAL GEOLOGY. 3 hours. One lecture and two laboratory periods. Prerequisite: Geology 25-26. *Mr. Prunty.*

Study of the framework of the earth's crust, and the causes of its distortion. The analysis of flexures, faults, joints. The origin of mountains, continents, and oceans. Laboratory studies of geological maps and the deduction of earth forces resulting in present rock attitudes.

334. PRINCIPLES OF SEDIMENTATION. 3 hours. Prerequisite: Geology 323. *Mr. Parizek.*

Study of the varying processes whereby sedimentary rocks are formed, critical discussion of media and agents of transportation, chemical and physical factors involved in deposition, and environmental conditions causing variations in above processes. Special emphasis upon outstanding present areas of sedimentation, e.g., Gulf of Mexico.

401. REGIONAL CLIMATOLOGY AND VEGETATION. Four lecture and one laboratory periods. Prerequisite: 10 hours in Geography and Geology including Geography 122, or an equivalent background in Botany. *Mr. Lahey.*

An analysis of world climatic and vegetative regions involving such deterministic factors as air mass characteristics, heat and moisture requirements of vegetative associations, the influences of topographic and edaphic conditions upon the relations of climates to natural and cultivated vegetation. Application of the classification systems of Transeau, Koppen, and Thornthwaite required.

402. GEOMORPHOLOGY. Four lecture and one laboratory periods. Prerequisite: 10 hours in Geography and Geology, or an equivalent background. *Mr. Mather.*

Analysis of the processes which have developed the present relief of the earth's surface, study of physical landscapes which comprise the earth's outer layers. Evaluation of physical processes and relief features found in the major physiographic regions of the American Southeast. Other physiographic regions, selected on a world-wide basis, will be examined in detail as type-examples.

403. INVERTEBRATE PALEONTOLOGY. Three lecture and two laboratory periods weekly. Prerequisite: Geology 26 and 332, plus Zoology 26, or equivalent background. *Mr. Parizek.*

Study of fossil invertebrates, emphasizing relationships in anatomical structures of living and extinct types, analysis of the classifications, ecology, and geological history of all phyla of invertebrates. Lectures, readings, laboratory problems emphasizing facility in stereo-microscopic analysis.

404. PRINCIPLES OF STRATIGRAPHY. 3 hours. Two lecture and one laboratory periods weekly. Prerequisite: Ten hours in Geography and Geology, including Geology 332. *Mr. Parizek.*

Study of the arrangements of strata of rocks in the earth's crust, emphasizing the vertical sequences and lateral correlations of layered deposits. Particular attention to the methods involved in identification and correlation of typical stratigraphic associations through analysis of organic and structural constituents.

406. ADVANCED HISTORICAL GEOLOGY. Four lecture and one laboratory periods weekly. Prerequisite: 10 hours in Geography and Geology, including Geology 332. *Mr. Parizek.*

Study of the principles of paleontological analysis of strata, emphasizing the bio-geographic characteristics typical of geological periods in Eastern North America. Special attention to the index fossils and the place of organisms in the growth of strata.

476. VEGETATION OF NORTH AMERICA. (See Botany 476)

HONORS WORK

H-500. HONORS COURSE.

GERMAN

(See Modern Foreign Languages)

GREEK

(See Classics)

HISTORY

(Academic Building, North Campus)

Head: Coulter. Staff: Brandon, Davis, Jones, Martin, Montgomery, Smith, Thompson, Vinson.

110 a-b-c. HISTORY OF WESTERN CIVILIZATION. 9 hours (3 hours in each of three quarters.) (For Pharmacy students only.) *Miss Thompson.*

A course designed to acquaint the student with the development of the institutions of the Western World and to show how they became a part of modern civilization. This course must be taken in the sequence indicated.

110 x-y. HISTORY OF WESTERN CIVILIZATION. 10 hours (5 hours in each of two quarters). For sophomores. *Mrs. Brandon, Mr. Davis, Mr. Jones, Mr. Montgomery, Mr. Smith, and Mr. Vinson.*

The same as History 110 a-b-c. This course must be taken in the sequence indicated.

History 110 is prerequisite to all courses which follow.

310. HISTORY OF THE FAR EAST. *Mr. Vinson.*

A survey of Oriental history with special emphasis on the role of China and Japan in world affairs during the last two centuries.

325. ANCIENT HISTORY. *Mr. Jones.* (Not offered in 1951-52.)

A survey of the political, social, and economic world from the Stone Age to the end of the Western Roman Empire in 476 A. D.

330. EUROPE SINCE 1914.

A study of the causes, main phases, and results of the First and Second World Wars, the chief political, economic, social, and cultural problems of the countries of Europe between these two wars, and the chief problems of these countries since 1945.

340 x-y. ENGLISH HISTORY. 10 hours (5 hours in each of two quarters, either quarter elective for final credit, though it is recommended that the whole course be taken). (Not offered in 1951-52.)

A survey of English history from the earliest times to the present. The division point in the two parts of this course is 1688.

350 x-y. AMERICAN HISTORY. 10 hours (5 hours in each of two quarters). Open only to juniors and seniors. *Mr. Martin, Mr. Montgomery, and Mr. Vinson.*

An interpretation of the development of the American nation from the age of discovery down to the present.

360. RUSSIA AND THE SOVIET UNION. *Mr. Smith.*

A survey covering the history of the Union of Soviet Socialist Republics from the earliest beginnings of Russian civilization in the ninth century to the present time. The first half of the course is devoted to the growth of the Russian Empire and its institutional development before 1800; the second half, to the decline of imperial Russia in the nineteenth century and the development of the Soviet regime after the 1917 Revolution.

405. CONSTITUTIONAL HISTORY OF THE UNITED STATES. *Mr. Montgomery.*
(Not offered in 1951-52.)

A study of how actual political and social conditions in American history have produced fundamental constitutional principles and practices.

420. NINETEENTH CENTURY EUROPE. *Mr. Jones.*

A history of Europe from 1814 to 1914. The main political, international, social, economic, cultural, and intellectual movements will be stressed.

451. THE AMERICAN COLONIES. *Mr. Martin.*

A study of the early settlements made in North America by the English, French, Spanish, and Dutch; and how these European peoples made an American society by adapting old world forces to a new world environment. The course ends with the French and Indian War in 1763.

452. THE REVOLUTION AND THE RISE OF THE AMERICAN NATION. *Mr. Martin.*

This course covers the period of American history from 1763 to 1800, which includes the Revolution, its causes and results; the Articles of Confederation; the writing and adoption of the Federal Constitution; and the administrations of George Washington and John Adams.

453. THE MIDDLE PERIOD OF AMERICAN HISTORY. *Mr. Montgomery.*

This course covers the period in American history from the election of Thomas Jefferson in 1800 to the election of Abraham Lincoln in 1860. The development of the political, social, and economic factors is traced.

454. THE CIVIL WAR PERIOD OF AMERICAN HISTORY. *Mr. Coulter.*

Special attention will be given to the civilian activities of the people and to the problems of the Northern and Southern governments. Emphasis will be placed on the Confederacy. Only the major military campaigns will be considered.

455. THE RECONSTRUCTION PERIOD. *Mr. Coulter.*

The reconstruction of the South along all lines as well as the remaking of the North will be taken up in this course. Beginnings will be found during the Civil War and the process will be continued to 1877.

456. RECENT AMERICAN HISTORY. *Mr. Martin.*

Beginning with the presidency of Rutherford B. Hayes in 1877, this course will continue to 1900. Politics will be overshadowed by the social and economic picture.

457. THE ANTE-BELLUM SOUTH. *Mr. Coulter.*

This course begins with the late colonial period, when settlers were pushing across the Southern Appalachians, and continues to the secession of the South. All aspects of Southern life and civilization will be dealt with.

458. HISTORY OF AMERICAN DIPLOMACY. *Mr. Vinson.*

A course designed to acquaint the student with the part the United States has played in its relations with other nations and to show the contributions it has made in promoting international morality and the ideals of American democracy abroad.

459. HISTORY OF GEORGIA. *Mr. Coulter.*

A study of Georgia from its first occupation by the Spaniards down to the present, though emphasis will be placed on the period before the present century. A comprehensive discussion of all aspects of Georgia's development.

470. THE FRENCH REVOLUTION AND NAPOLEONIC TIMES, 1789-1815. *Mr. Smith.*

A course covering the causes of the French Revolution; the various efforts at reform, which destroyed the old regime; the rise of Napoleon and the establishment of the Empire; and the civil and military accomplishments of Napoleon.

473. THE TUDOR PERIOD OF ENGLISH HISTORY. *Mr. Tate* (English Department).

The reigns of Henry VII, Henry VIII, Edward VI, Mary, and Elizabeth are studied in detail, covering the period from 1485 to 1603.

474. THE STUART PERIOD OF ENGLISH HISTORY. *Mr. Tate* (English Department).

This course covers the period from 1603 to 1714, and includes the following sovereigns: James I, Charles I, Charles II, James II, William and Mary, and Anne. Emphasis is placed on the controversy between the king and parliament and on the development of religious and political affairs.

476. AGE OF REASON AND THE FRENCH REVOLUTION, 1660-1815. Prerequisite: History 110xy. *Mr. Smith.*

A history of Western Europe in eighteenth century, centered on France in Age of Enlightenment. Shows how French Revolution of 1789-1804 was the climax of gradual decay of one political, social, economic, and intellectual system, and replacement by another. When appropriate, Eastern Europe and Europe overseas will be discussed.

477. MEDIEVAL EUROPE. *Mr. Jones.*

The history of Europe from the Fall of Rome to the Renaissance. The topics covered include the barbarian invasions, rise of the national states, the growing power of the Catholic church and its struggle with the temporal rulers, feudalism, the Crusades, as well as the social and literary development during the period.

478. THE RENAISSANCE AND REFORMATION. *Mr. Jones.* (Not offered in 1951-52.)

A study of the transition from medieval conditions with emphasis on the social, economic, and cultural changes of the Renaissance and the great religious upheaval of the sixteenth century.

491. THE LATIN-AMERICAN COLONIES. *Mr. Davis.*

This course begins with the voyages of discovery and covers the period of colonization and exploitation of the colonies by Spain and Portugal and ends with the Wars of Independence.

492. THE LATIN-AMERICAN REPUBLICS. *Mr. Davis.*

A course devoted to the study of the Latin-American Republics from the time of their independence down to the present day.

495. THE UNITED STATES IN WORLD AFFAIRS, SINCE 1900. *Miss Thompson.*

The emergence of the United States into an important place in world affairs at the beginning of the twentieth century, its economic and cultural development as a world power, and the part it played in World Wars I and II.

800. HISTORICAL METHOD AND BIBLIOGRAPHY. *Mr. Coulter.*

Required of graduate students majoring in history. This course will include methods of research and various aids, as well as the generally accepted usages in historical composition. Also, it will take up a survey of the history of historical writing.

801. RESEARCH TOPICS IN AMERICAN HISTORY. *Members of the Department on the Graduate Faculty.*

Topics will vary from year to year. This course continues through two quarters.

HONORS WORK

H-500. HONORS COURSE.

HUMAN BIOLOGY

(See Biology)

ITALIAN

(See Modern Foreign Languages)

LATIN

(See Classics)

MATHEMATICS

(LeConte Hall, North Campus)

Head: Fort. Staff: Barrow, Beckwith, Cohen, Conwell, Du Val, Hill, Huff, Levit, Stanley.

99. REMEDIAL COURSE IN ALGEBRA. 3 hours. *Mr. Conwell, Mr. Fort, and the Staff.*

A course designed for students who have had insufficient high school preparation to enter 101 or who for other reasons are deficient in their mathematics; devoted to drill on elementary and intermediate algebra; meets five times per week although but three hours credit is given.

101x. COLLEGE ALGEBRA. Prerequisite: at least two units of high school mathematics including one year of algebra. *Mr. Conwell, Mr. Fort, and the Staff.*

Review of some elementary algebra, quadratic equations, binomial theorem, progressions, complex numbers, theory of equations, permutations and combinations.

101y. **TRIGONOMETRY.** Prerequisite: at least two units in high school mathematics, including one year of algebra. *Mr. Conwell, Mr. Fort, and the Staff.* Trigonometry with some study of probability and statistics.

102. **MATHEMATICS OF FINANCE.** 3 hours. Prerequisite: Mathematics 101x. *The Staff.*

Simple interest and discount, compound interest, annuities, sinking funds, amortization, bonds, building and loan associations.

110. **ANALYTICAL GEOMETRY.** Prerequisite: Mathematics 101 x-y. *The Staff.* The straight line, circle, and conic sections with some solid analytic geometry.

303. **MATHEMATICS OF LIFE INSURANCE.** 3 hours. Prerequisite: Mathematics 102. *The Staff.*

Pure endowments, life annuities, whole life insurance, annual premiums, term insurance, endowment insurance, reserves surrender values, loading.

354. **CALCULUS.** Prerequisite: Mathematics 110. *The Staff.*

A beginning course in differential calculus with some integrations, infinite series.

355. **CALCULUS.** A continuation of Mathematics 354. *The Staff.*

Integral calculus.

356. **STATISTICS.** Prerequisite: Mathematics 101x. *Mr. Cohen.*

An elementary course in statistics.

401. **DIFFERENTIAL EQUATIONS.** Prerequisite: Mathematics 355. *Mr. Fort.* Elementary differential equations with applications to geometry and physics.

402. **VECTOR ANALYSIS.** Prerequisite: Mathematics 355. *Mr. Barrow.*

A study of vector methods and their physical applications.

412. **COLLEGE GEOMETRY.** Prerequisite: (a prerequisite for credit in the Graduate School is that the student have had Mathematics 101x and taught geometry for two years in high school.) *Mr. Barrow or Mr. Huff.*

A course in more advanced elementary geometry especially designed for prospective teachers of secondary school mathematics. Summer quarter only.

431. **THEORY OF NUMBERS.** Prerequisite: Mathematics 355. *Mr. Levit.* (Not offered 1950-51.)

Divisibility, prime numbers, congruences and residues, continued fractions.

441. **INTRODUCTION TO HIGHER ALGEBRA.** Prerequisite: Mathematics 355. *Mr. Huff or Mr. Levit.*

Theory of equations, polynomials, and determinants.

442. **INTRODUCTION TO HIGHER ALGEBRA.** Prerequisite: Mathematics 355. *Mr. Huff or Mr. Levit.*

Matrices, invariants, theory of elimination, symmetric functions.

451. **MATHEMATICAL STATISTICS.** Prerequisites: Mathematics 355 and 356. *Mr. Cohen.*

The mathematical theory of statistical methods, probability, and sampling distributions.

452. **MATHEMATICAL STATISTICS.** Prerequisite: Mathematics 451. *Mr. Cohen.*

Continuation of Mathematics 451.

456. **ADVANCED STATISTICAL METHODS.** 3 hours. Prerequisite: Mathematics 356. *Mr. Cohen.*

Methods studied in Mathematics 356 will be covered from an advanced viewpoint and in more detail. Advanced applications from the physical, biological, and social sciences.

457. **CALCULUS.** Prerequisite: Mathematics 355. *Mr. Barrow or Mr. Fort.* Improper integrals, approximate integration, partial differentiation, multiple integrals.

458. **ADVANCED CALCULUS.** *Mr. Barrow or Mr. Fort.*

Elliptic integrals, line integrals and Green's Theorem, Fourier series, implicit functions, functional determinants, calculus of variations.

460. STATISTICAL METHODS OF QUALITY CONTROL. Prerequisite: Mathematics 101x, Mathematics 356 or Economics 312 for undergraduate credit; Mathematics 101x, Mathematics 102, Mathematics 356 or Economics 312, and Business Administration 351 for graduate credit. Graduate credit is given toward the M.B.A. degree only. *Mr. Cohen.*

A review of fundamental statistical concepts including frequency distributions, averages, measures of dispersion, the construction and use of the Shewhart Control Charts, and techniques of acceptance sampling.

461. ADVANCED ANALYTIC GEOMETRY. Prerequisite: Mathematics 355. *Mr. Huff.*

A careful introduction to the analytic geometry of Euclidean space, beginning with elementary propositions on real vectors.

462. PROJECTIVE GEOMETRY. Prerequisite: Mathematics 461. *Mr. DuVal* or *Mr. Huff.*

The algebra of homogeneous co-ordinates; duality; cross-ratio; classification of projective transformations; configurations of lines and points; the conic.

463. GEOMETRY OF BINARY FORMS. Prerequisite: Mathematics 355. *Mr. DuVal* or *Mr. Huff.*

Invariants and covariants of sets of points on a line.

800. THEORY OF INFINITE PROCESSES. 3 hours. *Mr. Fort.*

Logical development of the ordinary number system, infinite sequences, infinite series, uniform convergence.

801. THEORY OF INFINITE PROCESSES. 3 hours. *Mr. Fort.*

Continuation of Mathematics 800.

Power series, Dirichlet series, Fourier series.

802. THEORY OF INFINITE PROCESSES. 4 hours. *Mr. Fort.*

Continuation of Mathematics 801.

Summability of series, theory of integrals, continued fractions.

811. FINITE DIFFERENCES. 3 hours. *Mr. Fort.* (Not offered 1951-52.)

Difference operators, summation of series, summation formulas, Bernoulli polynomials and numbers, interpolation.

812. DIFFERENCE EQUATIONS. 3 hours. Prerequisite: Mathematics 811. *Mr. Fort.* (Not offered in 1951-52.)

813. DIFFERENCE EQUATIONS. 4 hours. Prerequisites: Mathematics 812 and 814. *Mr. Fort.* (Not offered in 1951-52.)

814. ANALYTIC FUNCTIONS OF A COMPLEX VARIABLE. 3 hours. *Mr. Barrow.* (Not offered in 1951-52.)

815. ANALYTIC FUNCTIONS OF A COMPLEX VARIABLE. 3 hours. *Mr. Barrow.* (Not offered in 1951-52.)

Continuation of Mathematics 814.

816. ANALYTIC FUNCTIONS OF A COMPLEX VARIABLE. 3 hours. *Mr. Barrow.* (Not offered in 1951-52.)

Continuation of Mathematics 815.

817. ORDINARY DIFFERENTIAL EQUATIONS. 3 hours. Prerequisite: Mathematics 401. *Mr. Fort.*

Existence and boundary value theorems; behavior of solutions in the neighborhood of singular points.

818. PARTIAL DIFFERENTIAL EQUATIONS. 3 hours. Prerequisite: Mathematics 817. *Mr. Fort.*

Existence and boundary value theorems; series representation of solutions.

826. FUNCTIONS OF A REAL VARIABLE: POLYGENIC FUNCTIONS OF A COMPLEX VARIABLE. 3 hours. Prerequisite: Mathematics 816. *Mr. Barrow.*

832. THEORY OF NUMBERS. 3 hours. Prerequisite: Mathematics 431. *Mr. Levit.*

Quadratic forms, diophantine equations, introduction to additive number theory.

833. THEORY OF NUMBERS. 3 hours. Prerequisite: Mathematics 832. *Mr. Levit.*

Quadratic fields, introduction to the general theory of algebraic numbers.

843. MODERN ALGEBRA. 3 hours. Prerequisite: Mathematics 442. *Mr. Huff* or *Mr. Levit*.
Domains, rings, fields, linear algebras.
844. MODERN ALGEBRA. 3 hours. Prerequisite: Mathematics 843. *Mr. Huff* or *Mr. Levit*.
Continuation of Mathematics 843.
845. THEORY OF GROUPS. 4 hours. Prerequisite: Mathematics 442. *Mr. Huff* or *Mr. Levit*. (Not offered in 1951-52.)
Cyclic groups, groups with operators, Galois theory.
853. MATHEMATICAL STATISTICS. 3¹ hours. Prerequisite: Mathematics 458. *Mr. Cohen*.
Theory of estimation and testing hypotheses.
863. ALGEBRAIC GEOMETRY. Prerequisite: Mathematics 462. *Mr. Du Val* or *Mr. Huff*.
Groups of transformations; invariants; geometries, algebraic curves.
864. ALGEBRAIC CURVES. Prerequisite: Mathematics 863. *Mr. Du Val* or *Mr. Huff*.
Theory of curves over the field of complex numbers, singularity of curves, genus.
865. ELEMENTARY RATIONAL SURFACES. Prerequisite: Mathematics 863. *Mr. Du Val* or *Mr. Huff*.
Rational ruled surfaces; Veronese surfaces; del Pezzo surfaces.
866. SYNTHETIC GEOMETRY. Prerequisite: Mathematics 462. *Mr. Huff* or *Mr. Du Val*.
Axiomatic development of projective geometry. Introduction of coordinate field and relation of special properties of the geometry to those of the field.
891. MATHEMATICS SEMINAR. 3 hours. Prerequisite: Undergraduate major in mathematics or equivalent and two quarters of graduate work in mathematics. *The Staff*.
A study by the seminar method of some phase of current research in mathematics.

HONORS WORK

H-500. HONORS COURSE.

MODERN FOREIGN LANGUAGES

(Robert E. Park Hall, North Campus)

Head: Jordan. Staff: Alciatore, Bovée, Chance, de Baillou, Downs, Hall, Peterson, Shedd, Terry, Williams, Womack.

(No University credit will be granted for work in a foreign language when such work is a repetition of courses completed in high school.)

FRENCH

101-102. ELEMENTARY FRENCH. 10 hours. *Mr. Bovée* and *the Staff*.

A course designed to teach the student to pronounce French, to conduct simple conversations, and to read texts within a limited vocabulary range. Oral practice, emphasis upon sentence patterns, and the fundamental principles of structure. (No credit is granted for French 101 without French 102.)

103. INTERMEDIATE FRENCH. Prerequisites: French 102 or two entrance units in French. *Mr. Bovée* and *the Staff*.

Intensive and extensive reading. Texts of moderate difficulty selected from well known authors. A rapid review of French grammar, irregular verbs, and idioms.

104. INTERMEDIATE FRENCH. Prerequisite: French 103 or its equivalent. *Mr. Bovée* and *the Staff*.

Intensive and extensive reading of texts of marked literary merit. Pronunciation and conversation. Prepares students to read French in their specialized fields, to enter courses in French literature (201), or to enter courses in conversation and composition (106).

106. INTERMEDIATE FRENCH CONVERSATION AND COMPOSITION. Prerequisite: French 104. *The Staff*.

The emphasis is divided between conversation (three days a week) and composition (two days a week). The two phases of the course are correlated to promote the student's ability to express himself accurately whether in speaking or in writing French. A strongly suggested elective for anyone planning to major in French.

Any course numbered below 200 is considered elementary and will not count toward the minimum of 20 hours required in one subject for a major in language.

201. AN INTRODUCTION TO THE STUDY OF FRENCH LITERATURE. Prerequisite: French 104. *Mr. Alciatore, Mr. Downs, or Mr. Jordan*.

A study of the main literary movements and major works of representative French writers from the twelfth through the seventeenth centuries.

202. AN INTRODUCTION TO THE STUDY OF FRENCH LITERATURE. (continued). Prerequisite: French 104. *Mr. Alciatore, Mr. Downs, or Mr. Jordan*.

A study of the main literary movements and major works of representative French writers of the eighteenth and nineteenth centuries.

357. FRENCH PHONETICS. Prerequisites: French 201-202 or French 106. *Mr. Bovée*.

The organs of speech, the differences in production of French and English speech sounds, and the various speech phenomena, such as intonation, assimilation, linking, and the length of vowel sounds. Practice in phonetic transcription and pronunciation.

French 201 and 202 are prerequisite to the following French courses except as indicated.

406. INTRODUCTION TO OLD FRENCH.

407. MEDIEVAL FRENCH CULTURE.

408. FRENCH LITERATURE OF THE RENAISSANCE. *Mr. Downs*.

Origins and development of the Renaissance in France, political and social influences, analysis of major works, reports, collateral readings, term paper.

430. THE ROMANTIC MOVEMENT IN FRANCE. *Mr. Downs*. (Offered in alternate years.)

The origins of the movement in France with the principal emphasis upon Rousseau, Chateaubriand, and Madame de Stael. Foreign influences. The formation of the oenacles. Chief literary manifestoes. Analysis of representative works: Lamartine, Hugo, Vigny, Musset, and minor poets—poetry, novels, and drama. Collateral reading, reports, and a term paper. This course is designed as the first of a series of three; it should be followed by 431 and 432.

431. THE FRENCH NOVEL SINCE ROMANTICISM. *Mr. Alciatore*. (Offered in alternate years.)

The novel as it evolved from Romanticism to Realism and from Realism to Naturalism. Analysis of subjective elements and of character development. The cult of form. The increasing influence of science. The reaction against Naturalism. Primary attention to Stendhal, Balzac, Flaubert, and Zola. Lectures and collateral reading. This course is designed to follow 430 and to correlate with 432.

432. FRENCH DRAMA AND POETRY SINCE ROMANTICISM. *Mr. Alciatore*. (Offered in alternate years.)

Baudelaire. The Parnassians: Leconte de Lisle and Heredia. The Symbolists: Verlaine, Mallarme, etc. The Mid-Nineteenth Century Social Drama of Dumas fils and Augier, Henri Becque, Antoine and the origins of the Little Theater Movement. The Post-Naturalistic Drama of Maeterlinck, Porto Riche, Rostand, and others. Attention will be given at the end of this course to the development of French literature in all genres at the conclusion of the nineteenth century and the beginning of the twentieth century. Lectures, analysis of texts, collateral reading. This course is designed to follow 430 and to correlate with 431.

456. ADVANCED FRENCH SYNTAX AND COMPOSITION. No prerequisite beyond French 104. *Mr. Chance*.

Comprehensive review; suggested for teachers of French.

459. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY—First half. *Mr. Jordan*. (Offered in alternate years. Not offered in 1951-52.)

The growth of the Classic Ideal with emphasis on the political, religious, social, and artistic background of the period. The evolution of poetic and prose styles with emphasis upon Malherbe, Descartes, Pascal, and Bossuet. The development of the classic tragedy with Pierre Corneille. This course will not be arbitrarily limited to the literature before 1660 but will deal as fully as possible with such authors as Boileau and LaFontaine in order that 460 may concentrate on two writers only. Lectures, analysis of texts, collateral reading.

460. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY—Second half. *Mr. Jordan*. (Offered in alternate years. Not offered in 1951-52.)

This course will concentrate almost exclusively on Racine and Moliere. A study of dramatic techniques and an analysis of characters. Many plays will be read and discussed in class; others will be assigned for collateral reading. Lectures and criticism of texts. This course is designed to follow 459.

461. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. *Mr. Downs* or *Mr. Alciatore*. (Offered in alternate years. Not offered in 1951-52.)

The growth of French rationalism. The growth of sensibility. *Belles-Lettres*. Bayle, Fontenelle, Montesquieu, Voltaire, Rousseau, Diderot, d'Holbach, Condillac, Helvetius; Marivaux, Lesage, Beaumarchais, Andre Chenier, and others. Lectures, collateral reading, analysis of texts.

481. (EDUCATION) PROBLEMS OF TEACHING ROMANCE LANGUAGES. Prerequisite: French or Spanish 201-202 or 15 hours of Education in addition to French or Spanish 104. *Mr. Bovée*.

History of method, psychology of language learning, values, objectives, teacher's library, technique of oral work, pedagogy of phonetics, phonetics applied to grammar, pedagogy of vocabulary and reading. Visual aids and realia, individual differences, tests and measurements. Evaluation of texts, course content.

GERMAN

101-102. ELEMENTARY GERMAN. 10 hours. *Mr. Terry and the Staff*.

Fundamentals of grammar, pronunciation, conversation, composition, reading, and translation. (No credit allowed for German 101 without 102.)

103. INTERMEDIATE GERMAN. Prerequisite: German 102 or two entrance units in German. *Mr. Terry and the Staff*.

Grammar review, reading and translation of intermediate texts, composition, and conversation.

104. INTERMEDIATE GERMAN. Prerequisite: German 103. *Mr. Terry and the Staff*.

Extensive readings in modern German prose. Composition and conversation.

105. INTERMEDIATE GERMAN FOR SCIENCE STUDENTS. Prerequisite: German 102 or two entrance units in German. *Mr. Terry and the Staff*.

A course at the intermediate level designed for pre-medical students and majors in chemistry, physics, and zoology.

Any course numbered below 200 is considered elementary and will not count toward the minimum of 20 hours required in one subject for a major in language.

201. INTRODUCTION TO GERMAN LITERATURE. Prerequisite: German 104 or German 206 and 207. *Mr. Terry* or *Mr. de Baillou*.

A study of representative works of German literature from its beginning through the eighteenth century.

202. INTRODUCTION TO GERMAN LITERATURE (continued). Prerequisite: German 104 or German 206 and 207. *Mr. Terry* or *Mr. de Baillou*.

A study of the main literary movements and major works of representative German writers of the nineteenth and twentieth centuries.

206. SCIENTIFIC GERMAN. 3 hours. Prerequisite: German 103 or 105. *Mr. Terry*.

Readings in chemical German.

207. SCIENTIFIC GERMAN. 3 hours. Prerequisite: German 103 or 105. *Mr. Terry*.

Readings in medical and biological German.

210. ADVANCED CONVERSATION AND COMPOSITION. Prerequisite: German 104. *Mr. de Baillou*.

Three recitations and two double periods for oral practice each week.

German 201 and 202 are prerequisite to the following German courses except as indicated.

430. THE GERMAN DRAMA OF THE NINETEENTH CENTURY. 3 hours. *Mr. Terry*.

A study of the development of German drama in the nineteenth century; reading of selected plays from the period, including Kleist, Grillparzer, and Hebbel.

431. THE GERMAN NOVEL OF THE NINETEENTH CENTURY. 3 hours. *Mr. Terry.*

A study of the principal works of Storm, Keller, Fontane, Meyer, and other German novelists of the nineteenth century.

432. INTRODUCTION TO GOETHE. 3 hours. *Mr. de Baillou.*

Study of Goethe's life, with lectures, reports, and readings from his poems, novels, and plays other than Faust.

433. GOETHE'S FAUST. 3 hours. *Mr. de Baillou.*

Reading and interpretation of Part 1 of Faust.

434. GERMAN LITERATURE TO 1500. 3 hours. *Mr. Terry.*

A study of the principal works of German literature up to the Reformation.

435. LESSING AND GERMAN CLASSICISM. 3 hours. *Mr. de Baillou.*

A study of the plays and essays of Lessing, with especial attention to his influence on the development of German drama.

436. GERMAN ROMANTICISM. 3 hours. *Mr. de Baillou.*

A study of the Romantic Period of German literature.

437. INTRODUCTION TO SCHILLER. 3 hours. *Mr. Terry.*

The reading and study of the principal plays of the great German dramatist.

438. CONTEMPORARY GERMAN LITERATURE. 3 hours. *Mr. Terry.*

A study of the literary movements of the twentieth century in Germany.

439. THE GERMAN LYRIC. 3 hours. *Mr. de Baillou.*

Extensive reading of German lyrics and ballads from the time of the Minnesingers to the present.

ITALIAN

101-102. ELEMENTARY ITALIAN. 10 hours. *Mr. Alciatore* or *Mr. Downs.*

Grammar and composition, conversation, reading and dictation. (No credit is granted for Italian 101 without Italian 102.)

103. INTERMEDIATE ITALIAN. Prerequisite: Italian 102. *Mr. Alciatore* or *Mr. Downs.*

Intermediate grammar, reading, conversation, dictation, and composition.

104. ITALIAN GRAMMAR, COMPOSITION, AND CONVERSATION. Prerequisite: Italian 103. *Mr. Alciatore* or *Mr. Downs.*

Advanced grammar, reading, oral and written composition, conversation, dictation.

RUSSIAN

(Students are advised not to take Russian without two units or the equivalent in another language.)

101-102. ELEMENTARY RUSSIAN. 10 hours.

Grammar and composition, conversation, reading and dictation. (No credit is granted for Russian 101 without Russian 102.)

103. INTERMEDIATE RUSSIAN. Prerequisite: Russian 102.

Intermediate grammar, reading, conversation, dictation, and composition.

104. RUSSIAN GRAMMAR, COMPOSITION, AND CONVERSATION. Prerequisite: Russian 103.

Advanced grammar, reading, oral and written composition, conversation, dictation.

SPANISH

101-102. ELEMENTARY SPANISH. 10 hours. *Mr. Williams* and *the Staff.*

Pronunciation, fundamentals of grammar, reading and conversation. (No credit is granted for Spanish 101 without Spanish 102.)

103. INTERMEDIATE SPANISH. Prerequisites: Spanish 101 and 102 or two entrance units in Spanish. *Mr. Shedd* and *the Staff.*

Intensive and extensive reading. Texts of moderate difficulty selected from well known authors. A rapid review of Spanish grammar, irregular verbs, and idioms.

104. INTERMEDIATE SPANISH. Prerequisite: Spanish 103. *Mr. Shedd* and *the Staff.*

Intensive and extensive reading of texts of marked literary merit. Pronunciation and conversation. Prepares students to read Spanish in their specialized fields, to enter courses in Spanish literature (201) or to enter courses in conversation and composition (106).

106. SPANISH CONVERSATION AND COMPOSITION. Prerequisite: Spanish 104. *The Staff.*

The emphasis is divided between conversation (three days a week) and composition (two days a week). The two phases of the course are correlated to promote the student's ability to express himself accurately whether in speaking or in writing Spanish. A strongly suggested elective for anyone planning to major in Spanish.

Any course numbered below 200 is considered elementary and will not count toward the minimum of 20 hours required in one subject for a major in language.

201. INTRODUCTION TO SPANISH LITERATURE. Prerequisite: Spanish 104. *Mr. Shedd or Mr. Williams.*

A study of representative works of Spanish literature from its beginnings through the Golden Age.

202. INTRODUCTION TO SPANISH LITERATURE (continued). Prerequisite: Spanish 104. *Mr. Shedd or Mr. Williams.*

A study of representative works of Spanish literature from the Golden Age to the present.

306. SPANISH COMMERCIAL CORRESPONDENCE AND ADVANCED CONVERSATION. Prerequisite: Spanish 104. *Mr. Shedd.*

A study of special forms and construction of business letters with conversation based on Spanish-American material.

Spanish 201 and 202 are prerequisite to the following Spanish courses except as indicated.

420. THE MODERN SPANISH NOVEL. *Mr. Williams.* (Offered in alternate years.)

A study of trends of the Spanish novel of the nineteenth and twentieth centuries.

421. THE DRAMA OF THE GOLDEN AGE. *Mr. Shedd.* (Offered in alternate years. Not offered in 1951-52.)

A study of the principal dramatists and their works with particular emphasis on Lope de Vega, Tirso de Molina, Ruiz de Alarcon, and Calderon de la Barca.

422. SPANISH PROSE OF THE GOLDEN AGE. *Mr. Williams.* (Offered in alternate years. Not offered in 1951-52.)

A study of the novel and short story of this period with emphasis on Cervantes.

423. THE DRAMA OF THE NINETEENTH CENTURY. *Mr. Williams.* (Offered in alternate years. Not offered in 1951-52.)

A study of the principal trends in the development of the drama with readings from representative authors. Particular emphasis on the Romantic Drama and the Comedy of Manners.

424. SPANISH PROSE BEFORE THE GOLDEN AGE. *Mr. Williams.*

A study of the exemplar collections, *La Celestina*, the chivalresque, sentimental, and Moorish novel.

425. THE MODERN DRAMA. *Mr. Williams.*

A study of representative writers and their works from Perez Galdos to the present day.

426. ADVANCED SPANISH SYNTAX AND COMPOSITION. *Mr. Shedd.*

A study of grammatical forms and usages with particular reference to the needs of those preparing to teach.

427. SPANISH POETRY TO 1700. *Mr. Shedd.*

A study of the development of poetry, its sources and forms, with particular attention to the epic and ballad.

428. SPANISH PHONETICS. *Mr. Williams.*

A study of the organs of speech, the differences in production of Spanish and English speech sounds, and the various speech phenomena. Practice in phonetic transcription, pronunciation, and intonation.

429. SPANISH POETRY SINCE 1700. *Mr. Shedd.*

A study of poetry with particular reference to its development in the nineteenth century.

430. SPANISH-AMERICAN POETRY. *Mr. Shedd.* (Offered in alternate years.)

A study of the contribution of the Spanish-American nations to the development of poetry. Readings from representative poets of the several countries.

431. SPANISH-AMERICAN PROSE. *Mr. Shedd.* (Offered in alternate years.) A study of the essay and novel as developed in the Spanish-American nations. Readings from representative writers of the several countries.

433. INTRODUCTION TO OLD SPANISH. Prerequisite: Spanish 428. *Mr. Shedd.* Phonology, morphology, and selected readings to illustrate the development of the Spanish language.

481. (EDUCATION) PROBLEMS OF TEACHING ROMANCE LANGUAGES. Prerequisite: French or Spanish 201-202 or 15 hours of Education in addition to French or Spanish 104. *Mr. Bovée.*

History of method, psychology of language learning, values, objectives, teacher's library, technique of oral work, pedagogy of phonetics, phonetics applied to grammar, pedagogy of vocabulary and reading. Visual aids and realia, individual differences, tests and measurements. Evaluation of texts, course content.

HONORS WORK

H-500. HONORS COURSE.

MUSIC

(Fine Arts Building, North Campus)

Head: Hodgson. Staff: Anderson, Beach, Blanchard, Dunaway, Harrison, Karlas, Kimble, Kopp, Kratina, Mitchell, Smith, Warner.

THEORETICAL COURSES

(For Music Students)

9. ELEMENTS AND FUNDAMENTALS OF MUSIC. No credit. (Meets five times a week.) Especially designed for students with insufficient high school preparation. *Theory Staff.*

10. FUNDAMENTALS OF MUSIC. 3 hours. (Meets five times a week.) A student expecting to take this course must take an examination. If he does not qualify, he must take the preparatory course, Music 9.

11. THEORY: INTRODUCTION TO HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. (Meets five times a week.) Prerequisite: Music 10 or examination. *Theory Staff.*

Includes part-writing of all triads, sight-singing, dictation, and keyboard harmony.

12. THEORY: ELEMENTARY HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. (Meets five times a week.) Prerequisite: Music 11. *Theory Staff.*

Part-writing of triads in inversions, sight-singing, dictation, and keyboard harmony.

34. THEORY: INTERMEDIATE HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. Prerequisite: Music 12. *Theory Staff.*

Secondary seventh chords and inversions, sight-singing, dictation, and keyboard harmony.

35. THEORY: INTERMEDIATE HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. Prerequisite: Music 34. *Theory Staff.*

Altered chords.

36. THEORY: ADVANCED HARMONY. 3 hours. Prerequisite: Music 35. *Theory Staff.*

Chromatic harmony and modulation.

333. ADVANCED THEORY AND KEYBOARD HARMONY. Prerequisite: Music 32. *Theory Staff.*

370. FORM AND ANALYSIS. Prerequisite: Music 34, 35, 36. *Mr. Anderson or Miss Kimble.*

Harmonic and polyphonic forms analyzed. Special stress given sonata form and Bach's "Well Tempered Clavichord." Students encouraged to write originally in forms thus analyzed.

371. COUNTERPOINT. Prerequisites: Music 34, 35, 36, and 370. *Mr. Kopp.* Species—16th Century Counterpoint.

372. ADVANCED FORM AND ANALYSIS. Prerequisite: Music 370. *Mr. Anderson or Miss Kimble.*

373. ADVANCED SIGHT-SINGING AND DICTATION. Prerequisite: Music 32. *Mr. Anderson.*

374. ORCHESTRATION. Prerequisite: Music 370 and 371. *Mr. Mitchell.*
Principles and practice of instrumentation for chamber music and orchestra.

475. ADVANCED COUNTERPOINT. Prerequisite: Music 371. *Mr. Kopp.*
18th Century Contrapuntal techniques.

476 a-b-c. COMPOSITION. 6 hours (2 hours per quarter). Prerequisite:
Music 370 and 371. *Mr. Kopp.*
Writing in smaller forms.

MUSIC LITERATURE COURSES

(Open to All Students)

3. APPRECIATION OF MUSIC. 3 hours. (One hour each quarter.) One lecture recital a week. Open to the public. *Mr. Hodgson.*

Credit given only to students taking another theoretical music course. Special permission from director required before registering for credit.

21. INTRODUCTION TO MUSIC. 3 hours. *Mr. Blanchard.*

A survey literary course for B.S. majors in Music Education.

22 a-b-c. HISTORY OF MUSIC. 6 hours (2 hours per quarter). *Miss Kimble.*

A literary course for music students.

340. DEVELOPMENT OF OPERA. 3 hours. (For Summer Quarter.) *Mr. Hodgson.*

A general literary course in appreciation of the entire field of opera. Illustrations from selected scores played in class.

343. LISTENER'S HISTORY OF MUSIC. 3 hours. *Mr. Hodgson and the Staff.*

For the student untrained musically, who wishes to acquire an intelligent appreciation of the art. Required of all students preparing to teach in the public schools of the state.

350. DEVELOPMENT OF OPERA. *Mr. Hodgson.*

A general literary course in the appreciation of the entire field of opera. Illustrations from selected scores played in class. Not open to students who have had 340.

353. HISTORY OF PIANO AND VOICE LITERATURE. 3 hours. *Miss Karlas* and *Mr. Warner.*

358. HISTORY AND ANALYSIS OF MUSICAL STYLE. *Mr. Hodgson.*

Designed especially for art majors.

442. WAGNER'S MUSIC DRAMAS. 3 hours. Prerequisite for graduate credit: Music 22 or equivalent and two music courses numbered 200-399. *Mr. Hodgson.*

A course of literary and cultural value, concentrating on a detailed study of the plots and themes of all the Wagner operas, with scores played in class.

456. BACH-BEETHOVEN-BRAHMS. 3 hours. Prerequisite for graduate credit: Music 22 or equivalent, and two music courses numbered 200-399. *Miss Karlas.*

A detailed study of the three composers, with their masterpieces performed in class.

457. BEETHOVEN SYMPHONIES. 3 hours. Prerequisite for graduate credit: Music 22 or equivalent, and two music courses numbered 200-399. *Mr. Hodgson* and *Miss Kimble.*

A detailed study of the nine symphonies of Beethoven.

460. MODERN MUSIC. 3 hours. (For Summer Quarter.) Prerequisite for graduate credit: Same as for Music 457. *Mr. Hodgson* or *Miss Kimble.*

A literary course illustrating modern trends in music of Schonberg, Stravinsky, Bartok, and Scriabin.

462. MODERN MUSIC. Prerequisite for graduate credit: same as Music 457. *Mr. Hodgson* or *Miss Kimble.*

A literary course illustrating modern trends in music of Schonberg, Stravinsky, Hindemith, Bartok, Scriabin and others.

METHODS COURSES

(For Music Education Students)

251 a-b-c. STRING METHODS. 3 hours (1 hour per quarter). Three one-hour laboratory periods per week.

252 a-b-c. WOODWIND METHODS. 3 hours (1 hour per quarter). Three one-hour laboratory periods per week.

253 a-b-c. BRASS METHODS. 3 hours (1 hour per quarter). Three one-hour laboratory periods per week.

263 a-b-c. TEACHING INSTRUMENTS, FUNDAMENTALS OF VARIOUS INSTRUMENTS. 3 hours (1 hour per quarter). Class meets three times per week. *Mr. Anderson, Mr. Harrison, Mr. Mitchell, and Mr. Kratina.*

Strings, Woodwinds, Brass, and Percussion.

302. METHODS OF TEACHING PUBLIC SCHOOL MUSIC. For Education majors only. *Miss Smith.*

A course of music fundamentals designed for grade teachers.

312. PUBLIC SCHOOL MUSIC FOR ELEMENTARY GRADES. For Music majors. Prerequisite: Music 302 or Music 10. *Miss Smith.*

313. MUSIC IN THE JUNIOR AND SENIOR HIGH SCHOOLS. Prerequisite: Music 302 or Music 10. *Mr. Anderson, Mr. Mitchell, and Miss Smith.*

314-315. SUPERVISED TEACHING OF PUBLIC SCHOOL MUSIC. 5 hours each. Prerequisites: Music 312-313. *Miss Smith or Mr. Beach.*

362. ELEMENTARY CONDUCTING. 3 hours. *Mr. Mitchell or Mr. Warner.*

364. MUSIC EDUCATION SURVEY. *Mr. Mitchell.*

365. SURVEY CHORAL MUSIC AND TECHNIQUE CHORAL CONDUCTING. *Mr. Warner or Mr. Mitchell.*

414. WORKSHOP FOR PROBLEMS FOR TEACHERS IN MUSIC EDUCATION. 5 hours. *Mr. Anderson and Mr. Mitchell.*

Course designed to meet the needs of elementary school teachers, instructional supervisors, and music teachers.

431. PROBLEMS IN VOCAL MUSIC EDUCATION. 3 hours. Prerequisite: Music 312 and 313. *Mr. Beach, Mr. Mitchell.*

Detailed study of voice problems from classroom point of view beginning in elementary and continuing through secondary school; technique used in choral ensembles; evaluation of present concepts and practices.

432. PROBLEMS IN INSTRUMENTAL MUSIC EDUCATION. 3 hours. Prerequisite: Music 312 and 313. *Mr. Beach.*

Study of techniques used for development of the instrumental music program beginning in elementary and continuing through secondary school; diagnosis of problems relating to strings, woodwinds, brasses, percussion.

433. MUSIC ADMINISTRATION AND CURRICULUM. 3 hours. Prerequisite: Undergraduate requirements in education, Music 312 and 313. *Mr. Beach.*

Development of music curriculum as part of general education planning; evaluation of school curricula and how music can become a functional part; problems in music administration, personnel, finance, equipment.

434. CHORAL MUSIC MATERIALS. 3 hours. Prerequisite: Music 312 and 313. *Mr. Warner, Mr. Kopp.*

Study and evaluation of music literature available for use in public schools at all levels of instruction; research in various mediums and schools of composition which can be adapted for school use.

435. INSTRUMENTAL MUSIC MATERIALS. 3 hours. Prerequisite: Music 312 and 313. *Mr. Beach.*

Evaluation of materials available at all levels of instruction for band, orchestra and chamber music; research in materials of various mediums and schools of composition which can be adapted for school use.

APPLIED MUSIC COURSES

(Primarily for Music Majors)

The following courses are offered to enable the talented students who wish to devote a large amount of time to practical work to earn a limited amount of credit. Transfer credits will be accepted tentatively but must be validated by examination or completion of advanced work in residence. The maximum amount of credit allowed on any degree for this work is 24 quarter hours (only six quarter hours per year).

Before registering for Applied Music courses students must consult with the Head of the Music Department.

Laboratory fees vary from \$20 to \$50 for the following courses:

71 a-b-c. APPLIED MUSIC. 6 hours (2 hours per quarter). Two half-hour private lessons a week for three quarters. Laboratory fee course.

72 a-b-c. APPLIED MUSIC. 6 hours (2 hours per quarter). Prerequisite: Music 71 a-b-c. Two half-hour private lessons a week for three quarters. Laboratory fee course.

85 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). One half-hour private lesson a week for three quarters. Laboratory fee course.

86 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). Prerequisite: Music 85 a-b-c. One half-hour private lesson a week for three quarters. Laboratory fee course.

273 a-b-c. APPLIED MUSIC. 6 hours (2 hours per quarter). Prerequisite: Music 72 a-b-c. Two half-hour private lessons a week for three quarters. Laboratory fee course.

274 a-b-c. APPLIED MUSIC. 6 hours (2 hours per quarter). Prerequisite: Music 273 a-b-c. Two half-hour private lessons a week for three quarters. Laboratory fee course.

287 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). Prerequisite: Music 86 a-b-c. One half-hour private lesson a week for three quarters. Laboratory fee course.

288 a-b-c. APPLIED MUSIC. 3 hours (1 hour per quarter). Prerequisite: Music 287 a-b-c. One half-hour private lesson a week for three quarters. Laboratory fee course.

Extracurricular practical courses in piano technique, piano keyboard harmony, and ensemble playing are given to students without fee.

ENSEMBLE COURSES

(For Music Majors)

385. PIANO TECHNIQUE. 6 hours (1 hour per quarter). Two hours per week for two years. No extra fee.

387. LITTLE SYMPHONY ORCHESTRA. 6 hours (1 hour per quarter). Two hours per week for two years. Open to students who can qualify for symphony orchestra.

388. A CAPPELLA CHOIR. 6 hours (1 hour per quarter). Two hours per week for two years. Open to students who can qualify for serious choral study.

389 a-b-c. PIANO OR VOICE CLASS IN APPLIED MUSIC. 3 hours (1 hour per quarter). Two hours per week for one year.

390. UNIVERSITY BAND. 6 hours (1 hour per quarter). Three hours per week for two years. Open to students who can qualify and who will give this time in addition to the time credited to military science.

COURSES COMBINED WITH OTHER DEPARTMENTS

359. ENGLISH FOLK SONG. *Mr. Hodgson and Mr. Walker.*

451. MUSIC AND LITERATURE. *Mr. Brown.*

A comparative study of the forms, relationships, and aesthetics of music and literature. Admission by consent of the instructor.

GRADUATE COURSES

836. EDITING AND ARRANGING. 3 hours. Prerequisites: Music 33, 374. *Mr. Mitchell.*

Evaluation of representative instrumental and vocal published scores. A study of how to adapt them to specific groups; transcription for large or small ensembles; studies in timbre, color, qualities, etc. of instruments and voices; arranging accompaniments.

837. SCORE ANALYSIS. 3 hours. Prerequisites: Music 33, 376. *Mr. Anderson, Mr. Kopp, Mr. Mitchell.*

Learning techniques of harmonic and form analysis and preparation of scores for rehearsal.

838. ADVANCED CONDUCTING. 3 hours. Prerequisites: Music 363, 370. *Mr. Kopp, Mr. Warner.*

Developing conducting technique in rehearsing laboratory; survey and evaluation of materials on conducting.

875. RESEARCH SEMINAR. 5 or 10 hours. Prerequisite: Music 359. Georgia folk music, collecting native songs and musical material. Other subjects may be used if of real creative value or if new arrangements of old materials are made available for original research.

877. APPLIED MUSIC. 5 or 10 hours. Open to piano or voice graduates by permission of Head of the Department. Preparation of recital program, intensive study of repertoire, and preparing recommended works for public performance.

878. SEMINAR IN SACRED MUSIC LITERATURE. 5 or 10 hours. Prerequisites: 10 hours of senior division music literature courses. *Mr. Hodgson, Mr. Mitchell.*

Historical development of the large forms of sacred music; the oratorio, the cantata, the passions. Study of actual literature.

879. ADVANCED COMPOSITION. 5 or 10 hours. Prerequisite: Music 476. Use of various forms. Public performance of major original composition in large form.

880. THE SYMPHONY AFTER BEETHOVEN. 5 or 10 hours. Prerequisites: 10 hours of senior division music literature courses. *Mr. Hodgson, Mr. Mitchell.*

Historical development of the symphony. Study of actual scores. Analysis of masterpieces for the orchestra. Study of orchestral development.

HONORS WORK

H-500. HONORS COURSE.

NURSING EDUCATION

BASIC COURSES

30. PROFESSIONAL ADJUSTMENTS. 1 hour.

An orientation course that considers the principles that guide and govern personal and professional conduct; the recognition of differences in religious beliefs; individual and group standards of the profession. Includes visits through the hospital.

31. INTRODUCTION TO NURSING ARTS. 4 hours. This course includes Units 1 through 6, as outlined in the National Curriculum Guide for Schools of Nursing.

Health education in relationship to the physical requirements for the proper care of patients and the procedures found most helpful for the promotion of health. A basic understanding of the principles of nursing is taught with emphasis upon the attitude toward patients, their relatives, and their friends.

100. HISTORY OF NURSING. 3 hours.

A survey of the developments in early and more recent nursing history with special thought given to nursing literature, history of nursing education, international aspects of nursing, public health nursing and professional organizations.

**MAJOR COURSES IN NURSING EDUCATION FOR INSTRUCTORS OF NURSING ARTS,
ASSISTANT CLINICAL INSTRUCTORS OR HEAD NURSES, AND CLINICAL
INSTRUCTORS OR SUPERVISORS.**

1. MEDICINAL CALCULATIONS.

The study of weights and measurements, calculations involving percentage solutions, dilutions and concentrations, specific gravities, metric and apothecaries' systems. A review of the action of drugs on the human body as related to the nursing field.

200. PREVENTIVE MEDICINE AND PUBLIC HEALTH. 3 hours. (Also in basic program).

A study of some of the medical-social problems of the community, individual, and family with emphasis on the control of diseases and conservation of health by official and non-official agencies.

320. PSYCHOSOMATIC NURSING. 3 hours.

A course designed to consider the psychosomatic conditions in pre-natal life, early development of the child, accepted preventive and therapeutic measures in adolescence, maturity, and old-age.

321. HISTORY OF NURSING EDUCATION. 3 hours.

This course is desirable for all nursing education majors. It deals with the development of nursing with special consideration given to trends in nursing and nursing education. The outstanding professional, social, and economic factors relating to the trends will be stressed and also the individual and group responsibility for promoting professional development.

322. INSTRUCTOR TRAINING COURSE IN RED CROSS HOME NURSING, UNIT 1. CARE OF THE SICK. Master Teacher of The American Red Cross Nursing Service.

The course includes 12 three-hour practice periods by the Master Supervisor of Red Cross instruction followed by supervised practice teaching for 12 hours and three hours individual conferences plus two observations of other class members' teaching.

323. PUBLIC HEALTH NURSING. 3 hours.

An over-view of the scope, objectives, principles, and practice of public health nursing in rural and urban agencies, under public and private auspices. Experience in the out-patient service and clinics will be arranged wherever possible.

324. CURRICULUM OF THE SCHOOL OF NURSING. 3 hours.

The application of principles of curriculum construction to the school of nursing curriculum, content of courses, class and ward schedules as related to the rotation of the student nurse in her clinical instruction, records including the evaluation of the student's work.

325. WARD MANAGEMENT AND CLINICAL TEACHING.

This is an intensive course in the principles of management, personnel management, hospital organization, place of the hospital in the community and its relation to other health and social agencies, objectives of ward management, principles and methods of clinical teaching, discussion of rotation between and within clinical services, routines, equipment and supplies essential to clinical nursing practice.

326. GUIDANCE IN NURSING EDUCATION. 3 hours.

This course is designed to aid the graduate nurse, head nurse, supervisor, teacher of nursing arts, and administrator to develop a personal working philosophy of the role of guidance in education and to acquire understanding of and skill in technique in guidance that may be effectively used in schools of nursing.

327. PRINCIPLES AND METHODS OF TEACHING AS APPLIED TO NURSING.

The principles and methods of teaching in a school of nursing and in public health. This course will consider the organization of teaching plans, integration of social and health aspects in the care of the patient, measurement of student achievement, techniques in the practice of nursing in the care of the patient in the hospital and in the home.

328. TEACHING OF NURSING ARTS. 3 hours.

A study of the principles and methods used in teaching nursing. The students will be expected to plan a course for either classroom or ward teaching and to demonstrate nursing procedures. Attention will be given to the modification of nursing procedures to meet the emergency needs or situation without jeopardizing the safety of the patient.

329. HOSPITAL ECONOMICS FOR NURSES. 3 hours.

The trends of economic practices as they relate to directing the hospital nursing unit.

330. HOSPITAL ADMINISTRATION.

This course is essentially for nurses preparing for supervision of a clinical service in a hospital. It deals with the basic principles of administration and organization in the modern hospital, budgetary control of hospitals, schools of nursing, and nursing services and personnel management. Emphasis will be given to factors which promote departmental efficiency, interdepartmental relationships, and the general functioning of the institution as a community agency.

346, 347, 348. DIRECTED OBSERVATION AND PRACTICE IN TEACHING THE NURSING ARTS. 15 hours.

Includes the seminar in health, mental, and social aspects of nursing. The prerequisites for the field work are the curriculum of the schools of nursing, principles and methods of teaching applied to nursing, and the teaching of nursing arts.

346, 347, 348. DIRECTED OBSERVATION AND PRACTICE IN WARD MANAGEMENT AND CLINICAL TEACHING. 15 hours.

Includes the seminar in health, mental, and social aspects of nursing. The prerequisites for the field work are the curriculum of the schools of nursing, principles and methods of teaching applied to nursing; and ward management and clinical teaching.

THE NINE QUARTERS OF CLINICAL NURSING INSTRUCTION GIVEN AT APPROVED HOSPITALS INCLUDE THE FOLLOWING COURSES:

32. ELEMENTARY NURSING ARTS. Units 7 through 10.

Principles and practice of nursing procedures used in the care of the patient. The students will be guided in the care of the patient as a whole, as well as in group nursing care. Emphasis will be placed on habits of observation, economic practices, surrounding care of patient, and the skills essential to fine nursing care of patient. This may include experience in the surgical supply room and the out-patient department of the hospital.

33. ARITHMETIC, DRUGS, AND SOLUTIONS. 1 hour. One half-hour class, 1-hour laboratory weekly.

This course is designed to teach simple mathematic calculations and the use of the metric and apothecaries' systems in the preparation of solutions and dosages of medicine. Weights, symbols, terms used in administration of medicine.

34. MATERIA MEDICA AND THERAPEUTICS. 3 hours.**35. MEDICAL SCIENCE. 1 hour.****36a. MEDICAL NURSING. 3 hours. Two lectures, one 3-hour laboratory, and clinics.****37a. SURGICAL NURSING. 2 hours. One hour lecture, one 3-hour laboratory, and clinics.****36b and 37b. NURSING IN MEDICAL AND SURGICAL SPECIALTIES. 3 hours. Three lectures, two 3-hour laboratory periods, and clinics.****40. CLINICS AND OUT-PATIENT DEPARTMENT. 2 hours.****42. SOCIAL CASE WORK FOR NURSING. 1 hour. Two-hour lecture, discussion, clinics, and observation in social service.****200. PREVENTIVE MEDICINE AND PUBLIC HEALTH. 3 hours. (Also in graduate nurse program.)**

PHILOSOPHY

(Meigs Hall, North Campus)

Head: Pfuetze. Staff: Gotesky.

104. INTRODUCTION TO PHILOSOPHY. *The Staff.*

A course in the fundamentals of philosophy, the meaning and function of philosophy, the vocabulary and problems of philosophy, and the relation of philosophy to science, art, and religion. Includes a survey of the basic issues and major types in philosophy, and shows their sources in experience, history, and representative thinkers.

305. ETHICS. *Mr. Pfueteze.*

A study of moral philosophy in its bearing on human conduct and social relations, including an analysis of the nature and criteria of good and evil, right and justice, moral obligation and freedom. Crucial issues of personal and social ethics are discussed in the light of readings in the classical moralists and in contemporary literature.

356. HISTORY OF PHILOSOPHY, ANCIENT AND MEDIEVAL. *Mr. Gotesky.* (Offered in alternate years. Not offered in 1951-52.)

An historical introduction to philosophy, tracing the development of European philosophy from the time of the early Greeks through the Renaissance.

357. HISTORY OF PHILOSOPHY, MODERN. Prerequisite: Philosophy 104 or 356. *Mr. Gotesky.* (Offered in alternate years. Not offered in 1951-52.)

Traces the development of European philosophy up to the nineteenth century.

358. MODERN LOGIC. *Mr. Gotesky.*

A study of the methods, principles, and problems of accurate thinking, including induction, deduction, the syllogism, fallacies, scientific method, and the contributions of symbolic logic.

399. PHILOSOPHY AND SOCIETY. (For Seniors only. Required of all candidates for A.B. and B.S. degrees.) *Mr. Pfuetze.*

An integrative survey course stressing value theory, designed to help students develop a philosophy adequate for modern living. Attention is focused upon a critical examination of great contemporary issues from the point of view of the methods, concepts, world views, and values by which modern men can live. Emphasis on the place that moral, aesthetic, and religious influences occupy in society.

406. (RELIGION) HEBREW-CHRISTIAN ETHICS. *Mr. Ayers and Mr. Pfuetze.*

An historical and interpretative survey of the social and ethical teachings of the Hebrew prophets, Jesus, and the Christian church; the relevance of this ethical pattern for the social problems, conflicts, and institutions of contemporary life. A sequel to Philosophy 305, but may be taken independently. (Given in cooperation with the Department of Religion.)

408. PHILOSOPHY OF RELIGION. *Mr. Pfuetze.*

The branch of philosophy that inquires into the origin, nature, function, and value of religion; examines the source and validity of the claims which religion makes; studies the fundamental religious problems and concepts as they find expression in Western religious philosophies, such as Judaism, Catholicism, Protestantism, Modernism, Agnosticism, Ethical Idealism, and Humanism.

409. LITERATURE OF ANCIENT AND MEDIEVAL PHILOSOPHY. *The Staff.* (Offered in alternate years.)

A course in the primary works of great philosophers of ancient and medieval times, especially the writings of Plato and Aristotle.

410. LITERATURE OF MODERN AND CONTEMPORARY PHILOSOPHY. Prerequisite: Philosophy 104 or 356. *The Staff.* (Offered in alternate years.)

Selected readings in important philosophers, modern and contemporary.

411. AESTHETICS. *Mr. Gotesky.*

The philosophy of the beautiful and of aesthetic values in art, literature, music, or wherever found. Intended to deepen the student's understanding of the purpose and function of art in the life of mankind. An analysis of aesthetic experience and of aesthetic types. Covers the nature, origin, psychological and social foundations of art, both practical and fine. Particular emphasis is placed upon the role of social ideas and cultural circumstances in the growth and decline of the various arts.

450. CONTEMPORARY PHILOSOPHY. Prerequisite: At least one course in philosophy other than 358. *Mr. Gotesky.*

The third course in the History of Philosophy sequence, but may be taken independently. Selected readings in important philosophers of the 19th and 20th centuries. Including such thinkers as Nietzsche, Mill, Marx, Spencer, Bergson, James, Royce, Dewey, Whitehead, and Santayana. The program is left flexible to allow for the divergent interests and needs of students and to permit consideration of significant current material.

458. ADVANCED LOGIC. Prerequisite: Philosophy 358. *Mr. Gotesky.*

An advanced course dealing with both traditional and modern methods in logic, especially the contributions of symbolic and mathematical logic.

For descriptions of the following courses in Political Philosophy, refer to the offerings in Political Science.

485. (POLITICAL SCIENCE) POLITICAL PHILOSOPHIES OF ANCIENT, MEDIEVAL, AND EARLY MODERN TIMES. *Mr. Allums.*

486. (POLITICAL SCIENCE) POLITICAL PHILOSOPHIES OF RECENT TIMES. *Mr. Allums.*

HONORS WORK

H-500. HONORS COURSE.

PHYSICAL SCIENCE SURVEYS

Given under the general direction of the Chairman of the Physical Science Division. No credit will be allowed for Physical Science 1 if a student shows credit for Physics 20, or for Physical Science 2 if a student shows credit for Chemistry 21.

1. PHYSICAL SCIENCE. Physics Building. *Physics Staff.*

A survey, the objectives of which are: (1) to give an elementary knowledge of the most fundamental facts, laws, theories, and hypotheses of physics and astronomy and the main practical applications of these sciences in our daily lives; (2) to give some idea of the meaning and value of the scientific method and how physical science has modified man's way of thinking and manner of living.

2. PHYSICAL SCIENCE. Terrell Hall and LeConte Hall. *Chemistry and Geography and Geology Staffs.*

A brief survey of some fundamentals and applications of the sciences of chemistry, geology, and physical geography.

PHYSICS AND ASTRONOMY

(Physics Building, North Campus)

Head: Dixon. Staff: Burkhalter, Cooper, Henry, Lowrey, Martin, Sears.

PHYSICS

20. PHYSICS SURVEY. Not open to students who have credit for Physical Science 1. *The Staff.*

An elementary study of the fundamentals of physics with a study of some of the simpler applications of physics. The laboratory period of two hours a week will be devoted to measurements designed to give an introduction in laboratory methods.

26. GENERAL PHYSICS—HEAT, SOUND, AND LIGHT. 6 hours. Four recitations and four hours of laboratory. Prerequisite: Physical Science 1. *The Staff.*

A course in that part of physics dealing with the fundamental laws of heat, light, and sound. Physical Science 1 students should take this course instead of Physics 28.

27. GENERAL PHYSICS—MECHANICS. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 20 or its equivalent. *The Staff.*

A course in that part of physics that deals with the fundamental laws of mechanics.

28. GENERAL PHYSICS—HEAT, SOUND, AND LIGHT. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 20 or its equivalent. *The Staff.*

A course in that part of physics dealing with the fundamental laws of heat, sound, and light. Physical Science 1 students should take Physics 26 rather than this course.

329. GENERAL PHYSICS—ELECTRICITY AND MODERN PHYSICS. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 27 or Physics 28. *The Staff.*

A course in that part of physics dealing with the fundamental laws of electricity and the newest developments in the general field of physics.

332. EXPERIMENTAL ELECTRICITY. Three hours of recitation and four hours of laboratory work. Prerequisite: Physics 329. *Mr. Dixon.*

A course of intermediate grade in electrical measurements.

333. SOUND AND LIGHT. Three hours of recitation and four hours of laboratory work. Prerequisite: Physics 26 or Physics 28. *Mr. Cooper.*

An intermediate course stressing experimental work on reflection, refraction, interference, diffraction, and polarization of light.

334. ADVANCED HEAT. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 26 or Physics 28. *Mr. Henry.*

The material in this course includes temperature and its measurement, specific heats, thermal expansion, transfer of heat by conduction, convection and radiation, the states of matter, elementary thermodynamics, production of high and low temperatures.

376. (JOURNALISM) PRINCIPLES OF PHOTOGRAPHY. 3 hours. One hour of recitation and four hours of laboratory work. Prerequisite: Physical Science 1, Physics 20, or the equivalent. Supply deposit, \$10. *Mr. Dixon.*

An elementary approach to the factors involved in the choice of a camera, the exposure and the development of the film, the production of contact prints, the enlargement of prints, and color photography.

380. ELECTRONICS. Two hours of recitation and six hours of laboratory work. Prerequisites: Physical Science 1, Physics 20 or the equivalent, and elementary algebra. Breakage deposit, \$5. *Mr. Martin.*

A study of the sources, methods of control, and the applications of electrons. This is a practical course rather than a theoretical one; it is designed primarily for students who expect to make practical applications of their knowledge of electronics.

404. THEORETICAL MECHANICS. Five recitations per week. Prerequisites: Physics 27 and Mathematics 355. *Mr. Dixon.*

The material presented includes advanced fundamental concepts, rectilinear motion of a particle, curvilinear motion in a plane, particle dynamics from the point of view of energy, statics of a particle, statics of a rigid body, and the dynamics of a rigid body. An attempt is made to emphasize the fundamental importance of mechanical principles in their application to all the fields of physics.

405. ADVANCED ANALYTICAL MECHANICS. Five recitations per week. Prerequisites: An introductory course in Theoretical Mechanics (such as Physics 404) and Mathematics 355. Desirable parallel course: Differential equations. *Mr. Dixon.*

A study of advanced mechanical principles, desirable as a background for Quantum Theory and Wave Mechanics, D'Alembert's principle, LaGrange's equations, Hamilton's principle, Canonical equations, and Generalized Coordinates.

434. THERMODYNAMICS AND KINETIC THEORY. Five recitations per week. Prerequisites: Physics 334 and Mathematics 355. *Mr. Dixon.*

A study of the laws of thermodynamics and their application in the fundamental concepts of physics with an introduction to statistical theories as applied to the behavior of gases.

471. ADVANCED ELECTRICITY. Five recitations per week. Prerequisites: Physics 332 and Mathematics 355. *Mr. Burkhalter.*

The laws of electrostatics and magnetostatics are developed with the aid of Gauss's theorem, Stokes' Theorem, etc. The course develops through the laws of Biot-Savart and Ampere to Maxwell's equations. From Maxwell's equations are derived the properties of electromagnetic radiation and propagation through a wave guide.

472. ATOMIC STRUCTURE. Five recitations per week. Prerequisites: Physics 332, 333, and Mathematics 355. *Mr. Burkhalter.*

The quantum mechanics is introduced as a tool for the study of atomic systems. Schrodinger's equation is developed and applied to several problems, including the hydrogen atom. Topics introduced include the uncertainty principle, the Pauli exclusion principle, transition probabilities, eigenfunctions, and eigenvalues.

481. SPECTROSCOPY. Five recitations per week. Prerequisites: Physics 333 and Mathematics 355. Desirable parallel course: Physics 472. *Mr. Cooper.*

This course will present a survey of the results of experimental spectroscopic analysis and their theoretical interpretation. The spectrum and corresponding energy level diagram of the hydrogen atom will be considered both according to Bohr's Theory and in the light of the new Wave Mechanics. With the introduction of the vector model the alkali spectra will be studied. The Zeeman and Stark effect will be treated and Pauli's exclusion principle will be applied to the building up principle of the periodic system.

ASTRONOMY

391. DESCRIPTIVE ASTRONOMY. Prerequisites: Physical Science 1, Physics 20 or its equivalent. Four lecture and one two-hour laboratory periods per week. *Mr. Dixon.*

This course is designed for the general student who desires to acquaint himself, or herself, with the stars, the members of the solar system, their motions and constitution. The laboratory and observing work of this course includes exercises with the celestial globe, a series of star maps, observations with a three-inch telescope (equatorial), and measurements of latitude and longitude with a sextant.

393. CELESTIAL NAVIGATION. Prerequisite: Astronomy 391. Three lecture and two laboratory periods per week. *Mr. Dixon.*

This is a course designed to meet the needs of students who desire to understand the principles of celestial navigation. Practice will be given in plotting and using charts, in using the mariners and airplane sextants, and in the determination of latitude and longitude by the standard methods used in celestial navigation.

HONORS WORK

H-500. HONORS COURSE.

POLITICAL SCIENCE

(Academic Building, North Campus)

Head: Pound. Staff: Allums, Collins, Range, Saye, Wood.

AMERICAN GOVERNMENT AND AMERICAN CONSTITUTIONAL LAW

1. AMERICAN GOVERNMENT. *Mr. Pound and the Staff.*

An introductory course covering the essential facts of federal, state, and local governments in the United States. Prerequisite for advanced courses in political science. A satisfactory grade will exempt a student from the requirement of passing an examination on the Constitution of the United States and the Constitution of Georgia before graduation.

202. AMERICAN GOVERNMENT. Prerequisite: Political Science 1. All students who expect to major in political science are advised to take this course. *Mr. Pound and the Staff.*

A continuation of Political Science 1 with emphasis on the internal organization and actual workings of the various departments of our national government.

410. AMERICAN POLITICAL PARTIES. *Mr. Pound.*

A study of the influence of political parties on the governmental organization and on the history and political thought of the United States.

483. AMERICAN CONSTITUTIONAL LAW. *Mr. Saye.*

A study of the fundamental principles of constitutional interpretation and practice in the United States through decisions and opinions of the Supreme Court.

484. AMERICAN CONSTITUTIONAL LAW. *Mr. Saye.*

A continuation of Political Science 483, with emphasis on recent Supreme Court decisions.

492. (ECONOMICS) AMERICAN ADMINISTRATIVE LAW. *Mr. Saye.*

This course stresses the legal principles and practical doctrines involved in work of administrative tribunals (the Interstate Commerce Commission, Federal Trade Commission, Securities and Exchange Commission, etc.) vested with quasi-legislative or quasi-judicial powers, or both.

STATE AND LOCAL GOVERNMENTS

368. COUNTY AND MUNICIPAL GOVERNMENT. *Mr. Collins.*

A study of the forms of organization, the functions, and the operation of county and municipal government in the United States and particularly in Georgia.

406. STATE GOVERNMENT. *Mr. Pound.*

A study of the forms of organization, the functions, and the operation of state government of the United States with particular emphasis on the government of the State of Georgia. Exempts the student from the requirement of passing an examination on the Constitution of the United States and the Constitution of Georgia before graduation.

884. SEMINAR IN PROBLEMS OF CONSTITUTIONAL GOVERNMENT IN GEORGIA. For graduate majors in political science only. *Mr. Saye.*

885. READING AND RESEARCH IN PROBLEMS OF GOVERNMENT IN GEORGIA. For graduate majors in political science only. *Mr. Pound and Mr. Saye.*

This course is designed to provide individual instruction for graduate students majoring in political science who are interested in an intensive study of special problems of Georgia government.

886. READING AND RESEARCH IN PROBLEMS OF GOVERNMENT IN GEORGIA. For graduate majors in political science only. *Mr. Allums and Mr. Pound.*

This course is a continuation of Political Science 885.

POLITICAL THEORY

408. AMERICAN POLITICAL THOUGHT TO 1800. *Mr. Pound.*

A study of the political theory of the colonial period, the American Revolution, and the theories of the Convention of 1787 and the early interpretation of the Constitution. Political Science 408 and 409 form a natural sequence, though either or both may be elected. Where the student takes the entire sequence, it is desirable to take Political Science 408 first.

409. AMERICAN POLITICAL THOUGHT SINCE 1800. *Mr. Pound.*

A study of the theories as to the nature of the Union, slavery, Civil War, Reconstruction, and the contemporary United States.

485. POLITICAL PHILOSOPHIES OF ANCIENT, MEDIEVAL, AND EARLY MODERN TIMES. *Mr. Allums.*

An historical study of the development of ideas relative to the state and government in ancient, medieval, and early modern times. Attention is directed primarily to the political thought of a selected group of eminent philosophers including Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Bodin, Hobbes, and Locke.

486. POLITICAL PHILOSOPHIES OF RECENT TIMES. *Mr. Allums.*

This course forms a sequence to Political Science 485. Either of the courses may be taken separately, but since emphasis is given to the growth of political thought, it is preferable to take the early period first.

COMPARATIVE GOVERNMENTS AND INTERNATIONAL RELATIONS

307. EUROPEAN GOVERNMENTS. *Miss Wood.*

A study of the principles and forms of organization of the governmental systems of Europe.

311. THE GOVERNMENTS OF LATIN AMERICA. *Miss Wood.*

A study of the principles and forms of organization of the governments of Latin America.

320. INTERNATIONAL RELATIONS. *Mr. Range.*

An introductory study of the forces and practices dominating contemporary international political relations.

412. THE GOVERNMENTS OF THE SOVIET UNION AND THE FAR EAST. *Mr. Allums.*

A study of the governments of the Soviet Union, China, Japan, Korea, India, and Pakistan. Emphasis will be placed on the fundamental principles upon which these governments are founded and the machinery by which these principles are effected.

421. INTERNATIONAL ORGANIZATION. *Mr. Range.*

A study of the principles, organizations, and functions of international governmental organizations such as the United Nations, Organization of American States, Council of Europe, the Specialized Agencies, the international judiciary, etc.

481. POLITICAL INSTITUTIONS. *Miss Wood.*

A study of the nature and functioning of political institutions such as constitutions, legislative bodies, executive offices, and their strength and weaknesses in the maintenance of constitutional government.

PUBLIC ADMINISTRATION

441. PRINCIPLES OF PUBLIC ADMINISTRATION. *Mr. Collins.*

A study of administrative organization, relationships, and controls in the United States.

442. PUBLIC PERSONNEL ADMINISTRATION. *Mr. Collins.*

A study of civil service systems, their organization, procedures, and relationships.

443. PUBLIC FINANCIAL ADMINISTRATION. *Mr. Collins.*

A study of the budgeting process, preparation and enactment of the budget, financial accountability and the audit.

444. (ECONOMICS) GOVERNMENT CONTROL OF THE ECONOMIC SYSTEM. *Mr. Smith.*

An examination of government responsibilities for and interferences in the operation of our traditional free enterprise system, including both the regulation of specific segments of the economy and the use of fiscal, monetary, and other general controls.

HONORS WORK

H-500. HONORS COURSE.

PSYCHOLOGY

(Meigs Hall, North Campus, unless otherwise specified)

Acting Head: Edwards. Staff: Gray, James, Osborne, Powell, Swain, Young, Zeigler.

All courses in the Psychology Department are in the Biological Science Division except Psychology 1, 371, 373, 414, 474, 482, 483, and 484, which are in the Social Science Division. Psychology 1 is a prerequisite to all other courses in Psychology except Psychology 358. It is recommended that no freshman be registered for psychology during his first quarter.

1. ELEMENTARY PSYCHOLOGY. *Mr. Edwards, Mr. James, Mr. Osborne, Miss Young, Miss Zeigler.*

A beginning course in psychology, given without laboratory experiments. It includes the fundamental facts and laws of psychology and indicates something of the various problems and fields of psychology, its relation to other fields, and some of the more important applications of psychology.

99. READING AND STUDY SKILLS. Three class meetings and two hours individual practice weekly. *Miss Swain.*

A non-credit course designed for improving reading skills to a level adequate for college study. Includes study and practice of: comprehension of varied materials; adapting speed of reading to purpose and materials; vocabulary skills; and efficient use of study time.

322. EXPERIMENTAL PSYCHOLOGY. Three periods for discussion, demonstration, and lecture and two double laboratory periods. *Miss Young.*

Psychology experiments will be performed to give the student an opportunity to discover and evaluate his abilities. These experiments will be utilized to give the student first hand experience with the facts and laws of psychology and to offer training in scientific thinking.

358. THE PSYCHOLOGY OF ADJUSTMENT. *Mr. Edwards.*

A course in mental hygiene; application to personal adjustments, solutions of conflicts, fears, personality difficulties; development of character and personality. The psychology of morale in peace and war; psychotherapy.

370. DIFFERENTIAL PSYCHOLOGY. *Miss Zeigler.*

Scope of differential psychology, heredity and environment; training and growth; the distribution of individual differences; the relationship between behavioral and structural characteristics; theories of constitutional types; the nature and inter-relationships of psychological traits.

371. APPLIED PSYCHOLOGY. Prerequisite: Psychology 1. *Miss Zeigler.*

The applications of the principles of psychology to social, professional, industrial, and educational fields.

372. PSYCHOLOGICAL PROBLEMS. Prerequisite: Psychology 1. *Miss Zeigler.*

This course provides for a systematic treatment, largely from a theoretical point of view, of some problem or problems of psychology, such as types of psychology, character and personality, habit, human variability.

373. SOCIAL PSYCHOLOGY. Prerequisite: Psychology 1. *Miss Zeigler.*

The social aspects of psychology; problems of social stimulation, organization, tradition, custom, motive, suggestion, and attitude as they relate to group action and social improvement.

374. GENETIC PSYCHOLOGY. Prerequisite: Psychology 1. *Miss Zeigler.*

The evolution of structure and behavior. The problems of childhood, maturity, and senescence as integral parts of the life cycle are given careful study.

400. SYSTEMATIC PSYCHOLOGY. Prerequisite: for minor, one course in psychology and evidence of ability to do the work of the course; for part of major, four courses in psychology. *Mr. Edwards or Mr. James.*

An advanced study in systematic and experimental psychology intended as a detailed study in theoretical discussions and investigations of special topics. Critical study of one systematic treatise and experimental work on special topics.

401. SYSTEMATIC PSYCHOLOGY. Continuation of Psychology 400. May be taken by permission only.

405. THEORIES OF LEARNING. Prerequisites: Psychology 1 and two experimental courses.

An analysis of the major theories of learning current among psychologists doing research in the field. Course begins with a study of the connectionism of Thorndike, and follows with the theories of Guthrie, Hull, Skinner, Kohler, Lewin, Wheeler, and Tolman. An attempt is made to determine the aspects common to all theories and to understand their differences. Emphasis is placed on experimental procedures used by each psychologist.

410. SPECIAL PROBLEMS. One hour discussion and eight hours laboratory. Prerequisite: for minor, one course in psychology, and evidence of ability to do the work of the course; for part of major, four courses in psychology. *Mr. Edwards.*

Critical study of special problems in psychology, both experimental and theoretical, such as types of psychology, association and memory, attention and feeling, behavior, and psychological examining and diagnosis. A special topic or experiment will be assigned each student for careful investigation.

411. SPECIAL PROBLEMS. Continuation of Psychology 410. May be taken by permission only.

412. CLINICAL PROBLEMS. Three hours discussion, four hours laboratory and clinical work. Prerequisite: for minor, one course in psychology and evidence of ability to do the work of the course; for part of major, four courses in psychology. *Mr. Edwards and Miss Young.*

Clinical studies of cases, including the use of experimental methods, clinical diagnosis and special tests with critical study of a problem or problems specially selected for each student.

413. CLINICAL PROBLEMS. Continuation of Psychology 412. May be taken by permission only.

414. PSYCHOLOGY OF PERSONNEL. Prerequisite: Psychology 1 or permission of instructor. *Mr. Gray or Miss Young.*

This course attempts to present an organized account of the more important contributions that psychology has made to the problems of personnel counseling. It describes the methods that have brought satisfactory results in selection and direction of personnel. Representative procedures for evaluating the abilities and aptitudes of employees are studied. Interviewing as a special technique is emphasized.

415. PSYCHOMETRICS. Prerequisite: three courses in psychology. *Mr. Osborne.*

This course is designed to give the student experience in administering, scoring and interpreting psychological tests, including tests of scholastic achievement, mental ability, aptitude, trade, interest, and personality.

416. INDIVIDUAL TESTING. Prerequisite: three courses in psychology, and preferably Psychology 415. *Mr. Osborne.*

Individual testing including such tests as the Terman-Merrill, or other form of the Binet, Wechsler-Bellevue, and performance tests.

417. ADVANCED TESTING. Prerequisite: three courses in psychology and preferably Psychology 415 and 416. *Mr. Osborne.*

This course is designed to give the student a knowledge of and experience with clinical techniques such as case study method and projective methods, and clinical diagnoses, including fact finding and placement interviews.

423. ABNORMAL PSYCHOLOGY. Lecture, laboratory, and clinical work. Prerequisite: for minor, one course in psychology and evidence of ability to do the work of the course; for major, four courses in psychology. *Mr. Edwards or Miss Young.*

The study of abnormal manifestations and problems of mental disease, together with some of the methods of psychological and psychiatric examinations. The course deals with problems of normality, variability, individual differences, and human adjustments. It is planned especially for students who are going into social, educational, clinical, and remedial work, emphasis being placed upon mental hygiene in all phases of the course.

461. ADVANCED EXPERIMENTAL PSYCHOLOGY. One hour discussion and eight hours laboratory and clinical work. Prerequisites: Psychology 1 and 322. *Mr. Edwards or Mr. James.*

Emphasis is placed upon experimental technique and methods of experimental work. Specially adapted for the student who desires to learn scientific method and for the student who is going on in psychology.

462. **CLINICAL PSYCHOLOGY.** Prerequisites: Psychology 1 and 423. May be taken by permission only.

Deals with problems of the normal, abnormal, maladjustments, delinquency, mental disease, methods of clinical examination, diagnosis, prognosis, and treatment. The course will be related especially to the work of the University of Georgia Clinic.

463. **CLINICAL PSYCHOLOGY.** Two or three hours advanced discussions and four or five hours of clinical examining and case work. Prerequisites: Psychology 1, 423, and preferably 462. May be taken by permission only.

A continuation of Psychology 462.

474. **OCCUPATIONAL INFORMATION.** Prerequisite: Psychology 1. *Mr. Gray.*

A wide variety of occupations will be overviewed and certain others will be studied in detail. Tools of the occupational consultant—Dictionary of Occupational Titles, occupational families, job descriptions, will be studied. Field trips to observe jobs will be part of the course.

480. **PHYSIOLOGICAL PSYCHOLOGY.** Prerequisites: Psychology 1 and two courses in biology. *Mr. James.*

In this course the personality is viewed as an integration of three factors; the morphological, the physiological, and the psychological aspects of the organisms, with attention mainly on the integration between the physiological and psychological aspect. The significance of the internal environment of the organisms for behavior is emphasized by analysis of experiments in which the internal environment is modified by such factors as glandular deficiency, food changes and use of drugs, and then observing changes in behavior. Attention is also given to the structure and function of the receptors and action systems of the organism and the significance of these in adjustment.

481. **COMPARATIVE PSYCHOLOGY.** Prerequisites: Psychology 1 and two courses in biology. *Mr. James.*

The central aim of comparative psychology is to study the increase in adjustment ability which has resulted from the increase in complexity of structure of animal types from age to age. The course begins with an analysis of the structure and behavior of the amoeba and continues on through the animal series to man. The integration of structure, physiological processes and behavior are emphasized throughout the course, resulting in a more thorough understanding of the adjustment processes.

482. **EMPLOYMENT METHODS.** Three hours discussion and four hours laboratory. Prerequisites: Psychology 1 and elementary statistics. *Mr. Gray.*

A survey of scientific methods of selecting men for industrial and business employment. Interviewing, testing, and appraising human aptitudes are studied and practiced in laboratory situations.

483. **WORK AND EFFICIENCY.** Three hours discussion and four hours laboratory. Prerequisites: Psychology 1 and elementary statistics. *Mr. Gray.*

Various factors which affect work and efficiency—such as lighting, ventilation, methods, rest, age, motivation—are studied. Experiments are performed to demonstrate and evaluate these factors.

484. **PSYCHOLOGICAL ASPECTS OF WAGE DETERMINATION.** Three hours discussion and four hours laboratory. Prerequisites: Psychology 1 and elementary statistics. *Mr. Gray.*

Methods of job analysis, job evaluation, and merit ratings are studied and demonstrated. Actual practice in using these procedures is a part of the course.

490. **DEVELOPMENT OF THE YOUNG CHILD.** Three lectures and four laboratory periods in the Nursery School. Dawson Hall, South Campus. *Miss Young.*

A study of the physical, mental, emotional, and social development of the pre-school child, the environmental factors influencing the development of the young child, studied with emphasis upon techniques of guidance. Planned to meet requirements for teachers of home economics in high schools; desirable also for teachers of elementary grades.

HONORS WORK

H-500. HONORS COURSE.

THE UNIVERSITY OF GEORGIA CLINIC

A. S. Edwards, Director

The clinical work carried on by the Department of Psychology for many years was expanded in 1930 and includes psychological, physical, psychiatric, and neurological examinations and a limited amount of therapeutic service. Cooperative arrangements have been made with the schools, the personnel office, the college physician, the deans of the University, and with visiting psychiatrists and neurologists.

The Clinic is interested in the examination of both normal and abnormal individuals and in special problem cases. Those desiring services may apply to the Director or may be referred to him by interested persons.

Advanced students may be admitted to work in the Clinic.

The Clinic provides about once a month a speaker who can give accurate and scientific information about mental disorders and disease, and about what is generally known as mental hygiene.

RELIGION

(LeConte Hall, North Campus)

Acting Head: Ayers.

100. INTRODUCTION TO THE STUDY OF THE BIBLE. *Mr. Ayers.*

A study of the social, economic, political, and religious situations which called forth the several books of the Bible, and the way in which each book or letter sought to meet the special situation to which it was addressed. Attention will be given to the growth of various religious concepts during the course of Biblical history.

400. HISTORY OF RELIGION. *Mr. Ayers.*

It is the aim of this course to survey the nature of early and primitive religions and to cover the main outlines of the chief living religions of the world. The method will be both historical and analytical.

406. (PHILOSOPHY) HEBREW-CHRISTIAN ETHICS. *Mr. Ayers and Mr. Pfuetze.*

An historical and interpretative survey of the social and ethical teachings of the Hebrew prophets, Jesus, and the Christian church; the relevance of this ethical pattern for the social problems, conflicts, and institutions of contemporary life. (Given in cooperation with the Department of Philosophy.)

410. OLD TESTAMENT LITERATURE. *Mr. Ayers.*

A study of the nature, content, and problems of Old Testament literature, with attention given to historical data, literary forms, and outstanding personalities.

411. NEW TESTAMENT LITERATURE. *Mr. Ayers.*

A study of the nature, content, and problems of New Testament literature, with particular attention given to (1) the political, social, and religious background of Judaism, out of which Christianity sprang; (2) the life of Jesus; (3) the immediate foreground of an expanding church.

430. THE PROPHETIC MOVEMENT.

A study of the development of Hebrew religion from its early, more primitive stages to the high point attained in the social, ethical, and spiritual teachings of the great writing prophets of Israel.

440. THE TEACHINGS OF JESUS. *Mr. Ayers.*

Although primarily a study of what Jesus taught, attention is given to the literary and environmental background of his teaching, the historical life of the teacher, and the contemporary validity of what he taught.

RUSSIAN

(See Modern Foreign Languages)

SOCIAL SCIENCE

(Academic Building, North Campus)

Given under the general direction of the Chairman of the Social Science Division.

4. CONTEMPORARY GEORGIA. *Mr. Meadows.*

A discussion and analysis of certain aspects of Georgia's population, its characteristics and trends; its relative standing in various statistical measures of economic and social wellbeing; its natural resources and economic accomplishments from the standpoint of agriculture, industry, and commerce; and its governmental organization and problems.

SOCIOLOGY

(Academic Building, North Campus)

Head: Williams. Staff: Chambliss, Dean, McMahan, Meadows.

5. INTRODUCTORY SOCIOLOGY. *Mr. Chambliss and the Staff.*

The study of organized social life in terms of interaction of heredity, physical environment, the group and culture. Emphasis on fundamental sociological concepts, methods, and data.

200. PRINCIPLES OF SOCIOLOGY. *Mr. Chambliss and the Staff.*

This course is intended to give to the student a general survey of the principles of sociology, an understanding of the important concepts in the field, and an acquaintance with the techniques of study in sociology.

315. THE FIELD OF SOCIAL WORK. *Miss Dean.*

An introductory course to the various aspects of present-day social work. Considers family and children's services, behavior clinics and case work approach to social problems, the courts, probation and parole, medical social services, group work, community organization, public assistance, and social security. Class discussion and collateral reading.

344. LATIN-AMERICA: PEOPLE AND INSTITUTIONS. *Mr. McMahan.*

A study of the structure and functioning of social institutions (including the family, school, church, and political institutions) in Latin-American countries; and an analysis of the Latin-American population to include: number and distribution; the composition (residence, race and nativity, age, sex, marital status, educational status, religious status, occupational status); the vital processes (measures of fertility and mortality); migration, and growth.

356. QUANTITATIVE METHODS IN SOCIOLOGY. *Mr. Williams.*

An introduction to quantitative methods in their application to sociological data.

360. CONTEMPORARY SOCIAL PROBLEMS. *Mr. Meadows.*

A study of both general and special problems of our times. The problems are considered in the social and cultural setting in which they occur. The emphasis is upon people and their behavior with the thought that new and clearer meanings may be given the concepts of Americanism and democracy.

NOTE: All 400 and 500 courses have as prerequisites Sociology 5 or 200 or the consent of the instructor.

408. ADVANCED PRINCIPLES OF SOCIOLOGY. *Mr. Chambliss.*

A critical examination of the conceptual framework of the science of sociology is made.

409. SOCIAL CHANGE. *Mr. Chambliss.*

The nature and theories of social change; causes and types of social change; the cultural lag theory; the adjustments of society to inventions; methods of studying the social effects of invention.

411. SOCIAL ORGANIZATION. *Mr. Chambliss.*

Concepts and indices of personal, family, and community organization; analysis of pathological social behavior; crime, mobility, unemployment, social misfits, family tension, divorces, ecological aspects of organization. Emphasizes the basic principles of social organization.

420. METHODS OF SOCIOLOGICAL RESEARCH. *Mr. McMahan.*

A critical analysis of historical research, field observation, mapping, interviewing, evaluation of human documents and case studies as used in sociology; the relation of these methods to statistical procedure.

427. PERSONALITY AND SOCIAL ADJUSTMENT. *Mr. McMahan* or *Mr. Williams*. Foundation and development of personality; mechanisms of integration and adjustment; roles of culture, groups and language; concepts of self; types and theories of personality; divergent personalities.

431. PRINCIPLES OF RURAL-URBAN SOCIOLOGY. *Mr. McMahan* or *Mr. Williams*.

This course stresses the fundamental differences between rural and urban societies and the interrelationships between these two large groups of people. How personalities growing up in the different environments are affected, and some of the problems that arise because of the differences and conflicts between rural and urban interests. An intensive study of these two types of culture.

433. POPULATION ANALYSIS. *Mr. McMahan*.

Theory and dynamics of population growth; population pressure; migration; composition; differential fertility; theories of the quality and optimum population; economic and social aspects of our population.

434. SOCIAL CONTROL. *Mr. Chambliss*.

A comparative study of societal and biological controls and the techniques by which they may be discovered; the situations in which they occur and the techniques by which they may be studied. The approach to these problems is fundamentally inductive and realistic.

435. COMMUNITY ORGANIZATION. *Mr. Meadows*.

A study of the community as a unit of social organization; contemporary trends in community organization and planning.

443. SOCIAL MOBILITY. *Mr. Williams*.

A study of the vertical and horizontal movements of people. Includes treatment of occupational, inter-generational, and social group mobility; as well as migration, both from the standpoint of the individual and of groups of people. How social groups are formed and how individuals and groups react to status and position in society. Special emphasis is given to the mobility of occupational groups.

461. THE FAMILY. *Mr. Chambliss*.

Family study from many different angles, utilizing data from the fields of anthropology, individual and social psychology, history, sociology, economics and psychiatry.

470. INTRODUCTION TO PUBLIC WELFARE ADMINISTRATION. *The Staff*.

A course that traces the historical development of public welfare services and considers their administration. Reference is made to the underlying problems with which present day public welfare departments deal; specific attention is paid to administration at local, state, and federal levels. Public administration as applied to welfare services is considered in its relation to administration in other fields. Discussion and readings.

481. CRIMINOLOGY. *Mr. McMahan*.

An introduction to the study of criminal behavior and its treatment. Attention will be paid to the development of criminal behavior in contemporary society and to the efforts of the individual to adjust to the demands made upon him. Emphasis will be placed upon the treatment of the offender by means of probation, imprisonment, and parole.

522. DEVELOPMENT OF SOCIOLOGICAL THEORY. *Mr. Chambliss*.

A survey of some of the most important systems in the development of sociological theory.

526. AMERICAN SOCIOLOGY. *Mr. Williams*.

This course presents a complete coverage of the origin and development of sociology in the United States, from Ward to the present. Special emphasis is placed on the approaches to the subject and recent trends in the field will be studied and analyzed.

800. SOCIOLOGY RESEARCH SEMINAR. *The Staff*.

This seminar offers opportunity for students taking graduate work as majors in sociology to do special research and study in the field under direction of staff members in the department. Individual members will be assigned to different students, but in no case may a student receive credit for more than one quarter of work, although the problems under study may cover a longer period.

SPANISH

(See Modern Foreign Languages)

SPEECH AND DRAMA

(Fine Arts Building, North Campus)

Head: Ballew. Staff: Camp, Popovich, Vance.

DRAMA

1. INTRODUCTION TO SPEECH AND DRAMA. Lecture-laboratory course. *The Staff.*

A general introductory course in the arts of the theatre: acting, scene-building and painting, lighting, stage management, make-up. Course is designed for freshmen and transfer students entering the Department of Drama. Each student will be expected to work as assigned on various productions of the University and Laboratory Theatres. Analysis of teacher's problems in oral communication, debate, interpretation, and speech correction in the public school.

2. ACTING. Lecture-laboratory course. *Mr. Popovich.*

A general elective. The fundamentals of acting technique, including pantomime and improvisations. Class lectures, exercises, and reports. Individual and group assignments of various acting techniques and procedures. Each student is required to participate in the productions of the Laboratory Theatre.

3. ACTING. Lecture-laboratory course. Prerequisite: Drama 2 or consent of the instructor. *Mr. Popovich.*

A general elective. Continuation of exercises in acting techniques and procedures. Particular emphasis on characterization, line interpretation, and tempo. Each student is required to participate in the productions of the Laboratory Theatre.

220. HISTORY OF THE THEATRE. *Mr. Camp.*

The development of the physical theatre and the growth of drama studied from the beginning of dramatic literature in Greece through *commedia dell' arte*. Representative dramatists of each period and their important contributions to dramatic literature are included from Aeschylus to Shakespeare.

221. HISTORY OF THE THEATRE. *Mr. Camp.*

The development of the physical theatre and the growth of drama studied from the Elizabethan period to the present. Representative dramatists of each period and their important contributions to dramatic literature are included from Shakespeare to Odets.

300. TEACHING OF SPEECH AND DRAMA. Course designed for teachers in secondary schools and colleges. No prerequisite is required but it is suggested that students should have Drama 1 and Drama 334 prior to taking Drama 300. *Mr. Popovich.*

Course deals with methods of teaching drama and producing plays in both high schools and colleges. Surveys of physical facilities and general dramatic programs of various schools and colleges will be studied and discussed, as well as general production methods and procedures. Fundamental study of various fields of speech, including interpretation, debate, public speaking, speech correction.

317. THEATRE APPRECIATION. 3 hours. *Mr. Ballew.*

A comprehensive survey and general approach to drama and theatre, providing a basis for the appreciation of drama as a fine art. Lectures, reading of plays and class discussions of University Theatre productions are included. This course is provided for the student who is not particularly interested in majoring in drama but who desires an intelligent appreciation of drama and theatre. It is offered as a general elective. This course is especially designed to be taken with Music 343 and Art 317.

334. SCENE BUILDING AND PAINTING. Lecture-laboratory course. *Mr. Camp.*

Planning the construction of stage settings; scene building, painting, rigging, and handling; and other technical problems of the theatre. Course includes elementary drafting laboratory with practice in use of scale rule and reading floorplans and construction drawings. Practical laboratory assignments as members of University Theatre and Laboratory Theatre crews.

335. SCENE DESIGN. Lecture-laboratory course. *Mr. Camp.*

Survey of history and principles of scene design. Laboratory includes development of designs for a play through sketches, floor plans, colored elevations, and scale models. Practical assignments as members of University Theatre and Laboratory Theatre crews.

336. STAGE LIGHTING. Lecture-laboratory course. *Mr. Camp.*

Study of the problems of lighting in the theatre: lighting instruments, lighting control; operation of lighting equipment. Practical assignments in the University Theatre and Laboratory Theatre.

344. RADIO ACTING AND PRODUCTION. 3 hours. Prerequisite: Drama 2 or 3 and/or consent of the instructor. *Mr. Ballew.*

An advanced course in acting, including radio acting and script analysis. Plays will be broadcast regularly from the campus studios.

345. RADIO ACTING AND PRODUCTION. 3 hours. Prerequisites: Drama 2 or 3 and/or consent of the instructor. *Mr. Ballew.*

An advanced course offered in sequence to Drama 344. Plays will be broadcast regularly from the campus studios.

346. RADIO ACTING AND PRODUCTION. 3 hours. Prerequisites: Drama 2 or 3 and/or consent of the instructor. *Mr. Ballew.*

A continuation of the advanced acting sequence with plays being broadcast regularly from the campus studios.

349. PLAY ANALYSIS. *Mr. Popovich.*

Intensive examination of play plots. Study of the methods of breaking a plot down into its component problems, the solution to which is the production.

350. PLAY PRODUCTION. Lecture-laboratory course. *Mr. Camp.*

Course coordinates all processes and phases of play production. The functions of the director, actor, designer, technician, and business staff are treated as integrated parts of the whole design. Practical laboratory assignments in the field of technical production and stage management in University Theatre and Laboratory Theatre.

360. PLAY DIRECTION. *Mr. Ballew.*

A survey of the theory and practice of play directing in the modern theatre. It deals with the general philosophy of theatre practice, analysis of plays for production, play selection, and play casting. Each student makes a director's study of a specific play and is expected to spend some time observing and participating in the work of the University Theatre.

361. PLAY DIRECTION LABORATORY. *Mr. Ballew.*

The production of plays in the Laboratory Theatre with students in the course serving as directors for the productions. Each student will direct two one-act plays during the quarter and submit a detailed director's manuscript of each production.

362. ADVANCED PLAY DIRECTION. *Mr. Ballew.*

This course is designed for advanced students who wish to take an active part in the play production program of the University Theatre. Students will direct plays in the Laboratory Theatre, or serve as assistants to the director of the University Theatre or as a stage manager of a production.

400. PLAYWRITING. Prerequisite: Drama 349 or consent of instructor. *Mr. Popovich.*

Elementary laboratory course in playwriting, including study and practice in writing for the modern stage and radio. Plays that merit production are presented in Laboratory Theatre, which is conducted in connection with this course and the course in acting and play direction.

Open to all juniors and seniors who submit an original play or short story that is approved by the instructor.

HONORS WORK

H-500. HONORS COURSE.

SPEECH

3. ORAL COMMUNICATION. 3 hours. *Miss Vance.*

Objective analysis of individual speech habits and an individually planned study of appropriate drills and activities for improving the skills of everyday speech.

8. VOICE AND ARTICULATION. *Miss Vance.*

Study of fundamental principles necessary to the development of an acceptable speaking voice and an effective informal conversational style. Phonetic analysis of the sounds of the English language as a basis for understanding and correcting common defects of articulation and voice is included to meet the professional requirements of elementary teachers.

50. PUBLIC SPEAKING.

Fundamental principles involved in group discussions and in the preparation and delivery of documented speeches for formal and informal occasions.

309. ENGLISH PHONETICS. Prerequisite: Speech 8. *Miss Vance.*

Study of English intonation and rhythm as a basis for speech correction. Analysis of movements involved in production of the sounds of English both in isolation and in connected speech, including significant regional and foreign dialect variants.

310. SPEECH CORRECTION. Prerequisite: Speech 8. *Miss Vance.*

Recognition of minor functional defects of voice and articulation with emphasis on activities and special drills by which the classroom teacher may improve the everyday speech habits of children. Clinical observation required.

311. SPEECH CORRECTION (ORGANIC). Prerequisite: Speech 8. *Miss Vance.*

Recognition of organic speech defects in children. An introduction to such principles and procedures as may become the classroom teacher's responsibility in the rehabilitation of the speech-handicapped child.

350. ORAL ARGUMENT. Prerequisite: Speech 50 or equivalent.

Practice and principles of argument, group discussion, and participation in both formal and informal debate.

369. RADIO SPEECH. *Miss Vance.*

General introductory course in radio script writing, adaptation, and production. A study of the principles of oral style in writing and speaking original programs aired over local stations.

386. ORAL INTERPRETATION OF LITERATURE. Prerequisite: Speech 8 or consent of the instructor.

A study of the techniques of literary analysis for effective oral reading of lyric and narrative literature and the development of vocal flexibility through a variety of problems in phrasing and emphasis.

396. DRAMATIC INTERPRETATION. Prerequisite: Speech 8.

Development of oral skills through the study of the dramatic monologues of Browning and original adaptations of scenes from Shakespeare and selected contemporary dramatists.

SPEECH CLINIC

General diagnostic services to the public. Individual appointments may be arranged at the speech laboratory. A limited number may be accepted for individual and group therapy.

ZOOLOGY

(See Biology)

THE SCHOOL OF LAW

FACULTY

JOHN ALTON HOSCH, B.S.C., M.A., LL.B., *Dean.*

LUCILLE EPPS, *Secretary.*

JAMES BARROW, A.B., LL.B., *Part-time Instructor in Law.*

HARRISON AGNEW BIRCHMORE, A.B., M.A., LL.B., *Part-time Instructor in Law.*

SIGMUND ALBERT COHN, J.D., *Professor of Law.*

DAVID MEADE FELD, A.B., LL.B., *Professor of Law.*

THOMAS FITZGERALD GREEN, JR., A.B., LL.B., J.S.D., *Professor of Law.*

HAROLD MILTON HECKMAN, B.S.C., M.A., C.P.A., *Part-time Professor of Law.*

WILLIAM MCLENDON HENDERSON, A.B., LL.B., LL.M., *Associate Professor of Law.*

CHARLES JOSEPH HILKEY, A.B., M.A., Ph.D., J.D., S.J.D., *Visiting Professor of Law.*

JOHN ALTON HOSCH, B.S.C., M.A., LL.B., *Professor of Law and Dean of the School of Law.*

ALBERT BRUCE JONES, A.B., LL.B., *Part-time Assistant Professor of Law.*

SARAH BAILEY LAMAR, *Librarian.*

JAMES JEFFERSON LENOIR, B.A., M.A., LL.B., Ph.D., LL.M., *Professor of Law.*

ROBERT LIGON MCWHORTER, A.B., LL.B., *Professor of Law.*

ABIT NIX, A.B., LL.B., LL.D., *Part-time Instructor in Law.*

HENRY HAYNES WEST, B.S., LL.B., *Lecturer in Law.*

OMER CLYDE ADERHOLD, B.S.A., M.S., Ph.D., *President of the University.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Dean of Faculties.*

JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Dean of Student Affairs.*

WALTER NEWMAN DANNER, JR., B.S.A.E., M.S.A., *Registrar and Director of Admissions.*

JOHN DIXON BOLTON, C.P.A., *Comptroller and Treasurer.*

LECTURERS FOR THE 1951-1952 SESSION

(To be announced later)

GENERAL INFORMATION

Courses in law were first offered at the University in 1843 and the School of Law of The University of Georgia was established in 1859. The Honorable Joseph Henry Lumpkin, a distinguished lawyer, who later became the first Chief Justice of the Supreme Court of Georgia, was elected the first professor of law.

The School of Law is a member of the Association of American Law Schools, an organization of the leading law schools of the country. The American Bar Association has approved the quality of its work. The School has also been approved by the Board of Regents of the State of New York so that its graduates are eligible to take the bar examination in that state as in other states.

STANDARDS OF THE AMERICAN BAR ASSOCIATION

The Council on Legal Education and Admissions to the Bar of the American Bar Association requests that attention be called to the following standards adopted by the Association:

1. The American Bar Association is of the opinion that every candidate for admission to the bar should give evidence of graduation from a law school complying with the following standards:

a) It shall require as a condition to admission at least two years of study in a college, or its equivalent.

b) It shall require its students to pursue a course of three years' duration if they devote substantially all of their working time to their studies, and a longer course, equivalent in the number of working hours, if they devote only a part of their working time to their studies.

c) It shall provide an adequate library available for the use of the students.

d) It shall have among its teachers a sufficient number giving their entire time to the school to ensure actual personal acquaintance and influence with the whole student body.

e) It shall not be operated as a commercial enterprise and the compensation of any officer or member of its teaching staff shall not depend on the number of students or on the fees received.

2. The American Bar Association is of the opinion that graduation from a law school should not confer the right of admission to the bar, and that every candidate should be subject to an examination by public authority to determine his fitness.

3. The Council on Legal Education and Admissions to the Bar is directed to publish from time to time the names of those law schools which comply with the above standards and of those which do not, and to make such publications available so far as possible to intending law students.

The School of Law of The University of Georgia is approved by the Council on Legal Education of the American Bar Association as fully complying with these standards.

PURPOSES AND METHOD OF INSTRUCTION

The courses of study offered in the School of Law are designed to give a thorough knowledge of the Anglo-American system of common law and to familiarize the student with statutory laws with which he must deal. Emphasis is placed on teaching the student how to make a practical application of the legal principles he learns. Work is carried on in Practice Courts under conditions made as nearly as possible like those prevailing in the

courts of the state. The School also undertakes to shape the interests and aims of its students so as to make them respected and useful citizens and to instill in them that high sense of personal honor and regard for professional ethics that should characterize members of the legal profession.

The School operates under the case method of instruction as the one best designed to enable the students to master the common law and equity as working systems. This method has been successfully used in the leading law schools of the country for many years. The student studies actual cases, deducing from them the principles of law involved. This method of instruction is preferred to others, because it tends to develop more readily in the student the power to analyze a legal problem and to think in legal terms.

Instruction is given in the drafting of legal instruments by requiring the student to prepare, under the supervision of an instructor, contracts, leases, deeds, wills, charters, and other legal documents.

Practical instruction in the preparation and trial of cases is given in a Practice Court. The work of this court is carried on under the direction of a member of the faculty, judges, and practitioners. Here are taken up matters relating to the preparation of pleadings, examination and cross-examination of witnesses, writing of briefs, presentation of arguments to the court and jury, taking of cases from lower courts to appellate courts, and other related subjects of a practical nature. For the work of this court there is a large and handsomely furnished court room.

LAW CLUBS

The student body of the School of Law is organized into clubs. Each club is presided over by a chief justice who is a member of the senior class. Cases are assigned to members of the first and second year classes for argument. The arguments are conducted before some member of the senior class or before some professor or practicing attorney invited by the club to sit as judge. After the decision legal principles involved in the case are discussed. These discussions frequently give to a student insight into a legal problem which he could not get so readily in any other way. With a regular schedule of cases in which opposing attorneys are members of different clubs, a spirit of friendly and wholesome rivalry has been developed among the clubs.

LECTURES

In order that students may receive first-hand knowledge of what is actually taking place in the courts and of the development in the various fields of the law, a number of distinguished lawyers and judges deliver lectures on phases of the law in which they may be particularly interested. These men come to the School of Law because of interest in legal education and give their services without compensation.

STUDENT MEMBERSHIP IN GEORGIA BAR ASSOCIATION

In 1933 the Constitution and By-Laws of the Georgia Bar Association were amended so as to render eligible for junior membership any member of the junior or senior class of any law school within this state which is on the approved list of the American Bar Association. Students eligible for membership are urged to avail themselves of this privilege and to attend the meetings of the Bar Association. Student members of the Association are brought in contact with the leading spirits of the bench and bar and are introduced to problems considered by lawyers in their professional organizations. There is thus developed in the student a sense of professional consciousness.

BUILDINGS AND LIBRARY

The School of Law of the University is housed in two buildings. The Main Law Building is a handsome structure provided by alumni and friends of the University and completed in 1932. It was named in honor of Harold Hirsch, Class of 1901, a devoted alumnus. On the ground floor are the court room and smoking and lounging rooms. The main floor of the building contains three large lecture rooms, administrative offices, and private offices for professors. The Alexander Campbell King Library is located on the top floor of the building. It was named for the late Judge Alexander Campbell King, Solicitor-General of the United States under President Wilson, and later a Judge of the United States Circuit Court of Appeals for the Fifth Circuit. The School of Law is greatly indebted to the widow of Judge King, Mrs. Alice M. King, who contributed generously to the establishment of the library in memory of her husband. The Library has commodious reading rooms and a stack room with a capacity of 75,000 volumes. There are also private reading rooms for the students.

With the increase in enrollment at the conclusion of the war it was necessary to provide additional physical facilities. The School of Law Annex, located to the North and adjacent to the Main Law Building, contains a large classroom, several reading rooms, offices for the faculty, and other facilities.

The Library of the School of Law contains approximately 35,000 volumes at the present time. It has the reports of all cases decided by the Supreme Court of the United States and other Federal Courts, the National Reporter System complete, the Reports of the States prior to the National Reporter System, the English Reports complete, and many of the Canadian Reports. It also has American Decisions, American Reports, American State Reports, Lawyers' Reports Annotated, American Law Reports, American and English Annotated Cases, British Ruling Cases, the American Digest System, the English Digests, Cyc, Corpus Juris, Corpus Juris Secundum, Ruling Case Law, American Jurisprudence, various compilations of the statute laws of the United States, the statute laws of Georgia and of the other states, English Statutes, the leading law reviews and periodicals, and a comprehensive collection of valuable text books and legal literature.

Many books contained in the Library are gifts of friends and alumni of the School of Law.

ADMISSION OF STUDENTS

ENTRANCE REQUIREMENTS

An applicant for admission to the School of Law before the fall quarter 1952 as a candidate for the degree of Bachelor of Laws must present satisfactory evidence of the fact that he is a graduate of a college of approved standing or that he has satisfactorily completed at least two years of regular residence work at such a college constituting not less than one-half of the work acceptable for a bachelor's degree granted on the basis of a four-year period of study.

Beginning with the Fall Quarter of 1952 the minimum entrance requirements will be increased to three years of residence work at a college of approved standing constituting not less than three-fourths of the work acceptable for a bachelor's degree granted on the basis of a four-year period of study.

There is no requirement that applicants for admission have college credit in any specified subjects. The prospective law student should seek a broad general education. It is important to be well trained in the use of English and to be able to write effectively. In addition, as many as possible of the following subjects should be studied: History; logic; philosophy; mathe-

matics (at least the elementary courses); enough science to appreciate its importance; some economics; government, and psychology. Some knowledge of sociology and the ability to speak are useful to a lawyer.

The School of Law admits both men and women students as candidates for degrees.

COMBINED COURSES

A student who has completed three years of work in the College of Arts and Sciences, the College of Business Administration, or the School of Journalism may substitute the first year of satisfactory work in the School of Law for his senior work and thus at the end of his fourth year of study receive the degree of Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, or Bachelor of Arts in Journalism. However, this first degree will be granted only upon the satisfactory completion of 185 quarter hours (186 quarter hours for the degree of Bachelor of Business Administration), exclusive of Physical Education and Military or Air Science. On the successful completion of the two remaining years of work in the School of Law he will be entitled to receive the degree of Bachelor of Laws. A student may in this manner receive in six years both the academic and law degrees.

ADVANCED STANDING

The Dean may, in his discretion, give full credit for work done in other law schools which are members of the Association of American Law Schools. Under no circumstances, however, will advanced credit be given for more than two years of work. The last year of work on the basis of which a degree is granted must be taken in this School of Law.

DIRECTIONS TO APPLICANTS FOR ADMISSION

Every applicant for admission to the School of Law must present to the Dean a complete transcript of his college work, together with a small photograph of the applicant. The matter of registration will be simplified if this transcript is sent to the School of Law several days in advance of the opening of the session which the applicant expects to attend. Such transcript may be procured from the registrar of the college or university at which the student's pre-legal work was done.

DEGREES

BACHELOR OF LAWS. In order to receive this degree, a student must have completed not less than 120 quarter hours of work with a weighted average of at least a minimum C.

The 120 quarter hours of work on the basis of which a degree is granted must include all the work of the first year, with the exception of Domestic Relations. The following courses in the work of the second and third years are required: Constitutional Law, Equity, Evidence, Georgia Practice, Prac-Court, and Property II.

In order to receive a degree, a student must satisfy not only the requirements specified above but must also have been in attendance at the School of Law for nine full quarters. The Dean may give credit for work done in other law schools approved by the Association of American Law Schools. However, in all cases the work of the three quarters immediately preceding the granting of a degree must be completed in this School.

A student who attends a full summer session is credited with one quarter of residence toward the degree requirements.

The faculty of the School of Law will, in its discretion, recognize unusual scholastic attainments of genuine distinction by awarding the degree of Bachelor of Laws *summa cum laude*, *magna cum laude*, or *cum laude*.

MASTER OF LAWS. The School of Law has recently inaugurated a program leading to the degree of Master of Laws. A prerequisite is a Bachelor of Laws degree from an approved law school of quality indicating that graduate work may be pursued with profit. At least one academic year of full-time study is required, the thesis and not less than one-half of the student's course work being in the general field of law. The program for the degree provides opportunity for the student to specialize in a chosen field or to deepen his knowledge of law generally. Information regarding graduate work can be obtained from the Dean of the School of Law.

No student may receive a degree without the favorable recommendation of the faculty, and this may be withheld for satisfactory cause although the required work has been completed.

A candidate for a degree, unless excused in writing by the secretary of the faculty of the University, must attend the graduation exercises at which he expects a degree to be conferred upon him.

THE HONOR SYSTEM

In 1930 the student body of the School of Law unanimously adopted the Honor Code. Through the ensuing years it has been subscribed to and administered by the students. Upon entering the School of Law every student is provided with a copy of the Honor Code Constitution, which sets forth the requirements of the Honor System and the machinery for enforcing the same. The requirements are that a student shall act honorably in all relations of student life. Lying, cheating, failure to report any instance of infraction of the Honor Code, or breaking one's word of honor, are condemned. After opportunity to examine the Honor Code Constitution and to acquaint himself with the environment of the School, each student is given the opportunity to sign a pledge by which he promises to observe the provisions of the Honor Code. Upon subscribing to the pledge the student is thereafter bound by the provisions of the Honor Code during the time he remains in the School of Law.

ADMINISTRATIVE REGULATIONS

The general regulations and requirements relating to the University as a whole apply to students in the School of Law except in so far as they may have been modified or changed by the Faculty of the School of Law with the approval of the President of the University. Students in the School of Law will be advised of such changes as may be made from time to time.

REGISTRATION

Students may enter the School of Law at the beginning of the Fall or Summer Quarters. It is advisable, however, for them to enter at the beginning of the Fall Quarter in September.

Service fees for late registration will be assessed by the Registrar in accordance with University regulations.

A student is entitled to be registered as a second-year student when he has satisfactorily completed not less than thirty quarter hours of his first year's work.

A student is entitled to be registered as a third-year student when he has satisfactorily completed not less than seventy-five quarter hours of work which must include all first-year required subjects.

No student may, without special permission of the Dean, register for less than twelve hours of work per week in any quarter or take for credit more than sixteen hours of work.

The courses of study in the School of Law are designed to occupy the full time of students, and no student in the School of Law may, without special

permission of the Dean, take courses in other schools or departments of the University.

AUDITORS

A student who wishes to attend lectures in a course, but who does not wish to take the examination, may, with permission of the Dean, register as an auditor in that course. A student's record card will indicate the lectures which he attended as an auditor, but no credit toward a degree will be given for work so taken. The School of Law reserves the right to withdraw this privilege for any course in which, due to the large registration, the instructor deems it inadvisable to admit auditors.

ATTENDANCE

The right to take the examinations, as well as the privilege of continuing one's membership in the School, is conditioned upon regular attendance at classes and the other exercises of the School. A student who during a quarter incurs in any course a number of absences in excess of double the number of times which that course meets per week will be excluded automatically from the examination in that course, and only in exceptional cases will the student be permitted by the faculty of the School of Law to take the examination.

EXAMINATION AND GRADING SYSTEM

Written examinations are given upon the completion of the various courses offered in the School.

The work of each student is graded as follows: A; B+; B; C+; C; D+; D.

Other marks are in use to indicate varying grades of work. They are:

P—(Pass).

F—(Failure). This grade may be converted into a higher grade only by repeating the work in the course.

I—(Incomplete). This grade indicates that a student although doing satisfactory work was, for some reason beyond his control, unable to complete the course.

W—Withdrawn from the course by permission with no grade assigned.

WF—Indicates a course from which the student withdrew while doing unsatisfactory work. This grade carries the F value.

EXCLUSION OF STUDENTS

A student who, at the end of his first three quarters, or at the end of any quarter thereafter, does not have a weighted average grade of the minimum C on all work taken by him since entering the School of Law, shall not be entitled to continue in attendance except by special permission of the Dean and upon such showing and such conditions as the Dean may require. This permission will be granted only in unusual cases.

FEEES

Students in the School of Law who are residents of the State of Georgia are required to pay each year (three quarters) a matriculation fee of \$210.00.

Students whose homes are not within the State of Georgia are required to pay each year (three quarters) a matriculation fee of \$510.00.

In the cases of both resident and non-resident students matriculation fees may be paid in quarterly installments.

A student receiving a degree from the School is charged a diploma fee of \$5.

Each student is required to pay during the registration period at the beginning of each quarter a health service fee of \$2.50.

All rates, including matriculation fees, room, and board, are subject to revision at the beginning of any quarter.

EXPENSES

The cost of new law books will average, through the three years, about \$60 per year. Second-hand books may be had at less cost.

The School of Law Dormitory, a handsome three-story brick building constructed in 1939, accommodates some sixty students. There is provided in the living room a complete set of State reports, the code, and other law books. Charges, including laundry deposit, are approximately \$50 a quarter, payable at registration. Other University dormitories are available for occupancy by law students.

If a student prefers he may obtain board and lodging in a private home or boarding house. The prices for both rooms and meals vary considerably in the city.

Incidental expenses are entirely within the control of the student and cannot be regulated by the University.

LOAN FUNDS

The University has the Brown Fund, the Lumpkin Fund, and other funds from which loans may be made to students. Law students may apply for these loans on the same basis as other students. Those who desire information regarding loans from these funds should write to the Director of Placement and Student Aid.

The Georgia Bar Association has a fund from which loans can be made to a limited number of deserving students in need of financial assistance. Information regarding loans from this source can be obtained from the Dean of the School of Law.

Mrs. Nettie Elsas Phillips has created a fund of \$5,000 in memory of her husband, Benjamin Z. Phillips, a loyal alumnus of the School. The annual income of this fund is available for loans to students in the School of Law. Applications for loans from this source should be made to the Faculty of the School of Law.

OPPORTUNITIES FOR SELF-HELP

A number of students find it possible to earn part of the money necessary to pay their expenses. Those who desire information concerning opportunities for self-help should write to the Director of Placement and Student Aid.

RELIGIOUS ACTIVITIES

The University recognizes that religious influences are essential to the well-rounded development of the individual. There is located on the University campus a University of Georgia Religious Association which does much to serve the spiritual needs of the students and to provide for them wholesome social contacts. The Association cooperates with student pastors and workers maintained by the Athens churches and, throughout the year, sponsors special programs for and by the students.

FRATERNITIES

In the School of Law are chapters of the Delta Theta Phi, Phi Alpha Delta, and Phi Delta Phi, legal fraternities for men, and Phi Delta Delta, legal fraternity for women. Law students are also eligible for membership in the local chapters of Phi Beta Kappa and Phi Kappa Phi. There are located at the University chapters of a number of the leading social fraternities of the country. Law students are eligible for membership in these fraternities.

LITERARY SOCIETIES

Students in the School of Law are eligible for membership in the two literary societies of the University, Demosthenian and Phi Kappa. The former society has been functioning continuously since 1801 and the latter since 1820. Regular weekly meetings are held at which students have an opportunity to take part in public speaking and debating. The training derived from work done in these societies is of particular value to those preparing themselves for careers at the bar.

PRIZES

THE HARRISON PRIZE. The Harrison Company, law book publishers of Atlanta, offers as a prize to that member of the graduating class who makes the highest average during his third year a copy of Powell's *Actions for Land*.

THE LAWYERS' CO-OPERATIVE PUBLISHING COMPANY PRIZE. The Lawyers' Co-operative Publishing Company offers annually a prize to the member of the classes in Legal Method who makes the highest grade a copy of Ballentine's *College Law Dictionary*.

NATHAN BURKAN MEMORIAL COMPETITION. The American Society of Composers, Authors, and Publishers annually offers a cash award of \$100 to that student of the graduating class who submits the best paper on "Copyright Law."

PHI DELTA PHI PRIZE. Wilson Inn, the local Chapter of Phi Delta Phi, presents annually to that member of the first year class who makes the highest average during his first year a prize consisting of law books selected by the Inn.

THE REDFEARN PRIZE. Mr. D. H. Redfearn, of the Miami bar, offers an award of \$50 to that student writing the best article on "Suggested Changes in the Remedial Laws of Georgia."

THE HENRY SHINN MEMORIAL AWARD. The Alexander H. Stephens Chapter of Phi Alpha Delta National Legal Fraternity annually presents a certificate and a \$50 Government Bond to the student writer of the best legal article published during the year. The award is given in honor of the late Dr. Henry A. Shinn, an esteemed legal scholar and writer, and Acting Dean of The University of Georgia School of Law.

GEORGIA BAR JOURNAL

Each year the faculty selects a Student Editorial Board from the members of the second and third year classes. Members of the Board prepare notes and comments on recent cases for publication in the Georgia Bar Journal, the official publication of the Georgia Bar Association. The student editors are selected on the basis of scholarship. Academic credit is given for work satisfactory to the Faculty Advisors.

COURSES OF INSTRUCTION

The University reserves the right to withdraw any course for which the registration is not sufficient and to offer any courses not here listed should sufficient demand arise and adequate teaching facilities and personnel be available.

FIRST YEAR

AGENCY

Four hours

A study of the basic principles of the law of agency and master and servant, including the liability of the master for torts of the servant and the independent contractor and the rights and liabilities of the principal and agent *inter se* and toward third persons.

Mr. Feld

Seavey's *Cases on Agency*.

CONTRACTS I AND II

Two Sections

Nine hours

An introduction to the law of legally enforceable promises including offers and their acceptance; duration and termination of offers; consideration; requisites of contracts under seal; parties affected by contracts; parol evidence rule; statute of frauds; performance of contracts; effect of illegality; discharge of contracts.

Mr. Hosch and Mr. Henderson

Williston's *Cases on Contracts* (5th edition).

CRIMINAL LAW AND PROCEDURE

Five hours

A study of the criminal law, both common and statutory, including the historical development of this branch of law as well as the analysis of the necessary elements of crimes, and the consideration of the principal classes of crimes; procedure in criminal cases.

Mr. McWhorter

Harno's *Cases and Materials on Criminal Law and Procedure* (3rd edition).

DOMESTIC RELATIONS

Four hours

This course deals with certain important aspects of family law, including contracts to marry; marriage; annulment; separation and divorce; the relations of husband and wife, and parent and child, with reference to property, support, alimony and custody; illegitimacy; adoption; guardian and ward; infancy.

Mr. Jones

McCurdy's *Cases on Domestic Relations* (3rd edition).

LEGAL METHOD

Four hours

This course is an introduction to the basic methods, sources, and literature of Anglo-American case law and legislation. Among the topics presented are: the sources and forms of American law, the analysis and synthesis of judicial precedents, the authoritative hierarchy of precedents, the interpretation of statutes and their uses as analogies in case law, some problems in the theory of legal reasoning, and the law as a system.

Mr. Lenoir

Dowling, Patterson and Powell's *Cases and Materials on Legal Method*.

CIVIL PROCEDURE

Five hours
 General theory of actions as remedies; steps in an action; declarations; demurrers, pleas and replications; necessary allegations; parties; venue; process; jurisdiction; trials and verdicts; motions after verdicts.

Mr. Green

Magill and Chadbourn's *Cases on Civil Procedure* (3rd edition).

PROPERTY I

Five hours
 Actual and constructive possession of real and personal property; rights based on possession; liabilities based on possession; disseisin and adverse possession of land; disseisin and adverse possession of chattels; various methods of acquiring title to personal property; liens and pledges; fixtures; some rights incident to the ownership of land.

Mr. McWhorter

Warren's *Cases on Property* (2nd edition).

TORTS I AND TORTS II

Two Sections

Eight hours

A general treatment of the principles underlying the laws of civil liability for conduct causing damage to others. Assault, battery, and false imprisonment; negligence as a basis for liability; contributory negligence as a defense; injuries by animals; dangerous use of land; violation of statutory duties as a basis of civil liability; deceit; malicious prosecution; libel and slander; invasion of the rights of privacy; interference with advantageous relations; proximate causation; justification and excuse.

Mr. Lenoir

Seavey, Keeton and Thurston *Cases on Torts*.

SECOND YEAR

ADMINISTRATIVE LAW*

Four hours
 Administrative power and action and its control by courts; discretion of administrative officials and their power to take summary action; hearings before administrative boards; legal and equitable relief against administrative action; finality of orders of administrative boards.

Mr. Feild

McFarland and Vanderbilt's *Cases on Administrative Law*.

ADMIRALTY*

Three hours
 A study of admiralty jurisdiction, the law governing maritime liens, seamen's rights, charter parties, salvage, general average, marine insurance, collision, and limitation of liability. Students are encouraged to do special work in the phases of Admiralty which interest them most.

Mr. Lenoir.

Sprague and Healy *Cases on Admiralty*.

COMPARATIVE LAW*

Two hours
 The main purpose of this course is to compare historically, analytically and critically the solution of legal problems by common law and civil law states. Practical problems will be selected from the field of contracts, torts, domestic relations and quasi contracts. The regular case method will be supplemented by lectures.

Mr. Cohn

Schlesinger's *Cases and Materials on Comparative Law*.

* Registration open to third-year students.

CONSTITUTIONAL LAW*

Four hours

Written constitutions and their amendment; power to declare laws unconstitutional; separation of powers; delegations of legislative power; limitations on legislative powers of State and Federal Governments; due process of law; police power; civil rights and their protection; protection afforded to contracts and property.

Mr. Feild

Dodd's *Cases on Constitutional Law* (4th edition).

CORPORATIONS I AND CORPORATIONS II*

Seven hours

The formation of private corporations; their powers and liabilities; problems of defective organization and of *ultra vires* acts; the powers and liabilities of promoters and directors; the rights of stockholders and creditors and remedies available for their enforcement; the reorganization and dissolution of corporations and problems of corporate finance.

Mr. Cohn

Richard's *Cases on Corporations* (3rd edition).

EQUITY I AND EQUITY II

Two Sections

Eight hours

The nature of equity jurisdiction, the history of equity jurisprudence; powers of courts of equity; specific performance of contracts; subject-matter of the contract; affirmative and negative contracts; contracts for arbitration and appraisal; damages in addition to or in lieu of specific performance; equitable servitudes; consequences of the right to specific performance; partial performance with compensation; marketable titles; the statute of frauds; plaintiff's default or laches as a bar to relief; certain discretionary defenses to specific performance; lack of mutuality as a bar to relief.

Mr. McWhorter

Glenn and Redden's *Cases on Equity*.

EVIDENCE

Five hours

Judicial notice; examination of witnesses; competency and privileges of witnesses; relevancy; direct and circumstantial evidence; illegal obtainment; opinion evidence; hearsay; authentication and production of writings; interpretative evidence; functions of judge and jury; burden of proof; presumptions.

Mr. Green

Casebook to be announced.

GEORGIA PRACTICE

Four hours

The Georgia judicial system and jurisdiction of the various trial courts; remedies; pleading, practice and procedure in Georgia courts.

Mr. Nix

Davis and Shulman, *Georgia Practice and Procedure*

INSURANCE

Three hours

General principles of insurance law, emphasizing life and fire, but considering also accident, marine, and guaranty insurance. Making and construction of the contract; insurable interest; concealment; misrepresentation; warranties; waiver; estoppel; power of agents; measure of recovery; rights of assignees and beneficiaries.

Mr. Feild

Vance's *Cases on Insurance* (3rd edition).

INTERNATIONAL LAW*

Four hours

Selected topics on international law; its nature, development and relation to municipal law; sovereignty, birth, recognition and death of nations; continuity of state personality; succession, domain, nationality; international cooperation and adjustment of differences under special consideration of the Charter of the United Nations.

Mr. Cohn

Fenwick's *Cases on International Law* and Selected Materials.

LEGAL ACCOUNTING

Five hours

Principles of accounting, with emphasis on the corporation, including problems of capital, profits, valuation, insolvency, and the analysis of financial statements. Intended especially to provide an accounting background for courses in business units, taxation, trusts, and estates for students who had no previous training in accounting.

Mr. Heckman

Graham and Katz *Accounting in Law Practice* and Selected Materials.

NEGOTIABLE INSTRUMENTS

Five hours

The law of bills, notes and checks prior to the adoption of the Uniform Negotiable Instruments Law; the effect of this Act.

Mr. Cohn

Britton's *Cases on Bills and Notes*.

PARTNERSHIP

Four hours

Nature and creation of partnership as distinguished from other forms of business organization. Partnership assets. Powers and liabilities of partners. Relations of partners among themselves.

Mr. Cohn

Gilmore's *Cases on Partnership* (3rd edition).

PROPERTY II

Five hours

Tenure, estates in land; common law conveyancing; covenants for title; delivery and acceptance of deeds; after-acquired titles; rents; covenants running with the land; waste; creation of easements or profits by express grant and by implication; licenses.

Mr. McWhorter

Warren's *Cases on Property* (2nd edition).

PUBLIC CORPORATIONS*

Four hours

The history and development of public corporations; their nature; creation, classification, liabilities, powers and duties; municipal corporations, their creation, alteration, dissolution, powers and duties, and actions by and against; quasi-public corporations, their nature, regulation and control.

Mr. McWhorter

Stason's *Cases on Municipal Corporations* (2nd edition).

SALES*

Four hours

This course deals with executory and executed contracts for the sale of personal property and with the rights and remedies of buyers and sellers under the common law and Uniform Sales Act and in the State of Georgia.

Mr. Cohn

Vold's *Cases on Sales* (2nd Edition)

* Registration open to third-year students.

THIRD YEAR

APPELLATE BRIEF WRITING

Four hours

This course is designed to provide students with actual practice in writing briefs and arguing cases before Courts of Appeal. Each student will be required to prepare a written appeal brief and argue from the brief before an appeal court. Members of the faculty, local lawyers, and jurists will preside at the hearings.

Mr. Henderson

Selected Materials.

APPELLATE PROCEDURE

Four hours

A study of the procedure commonly followed in the review of causes in the various appellate state courts of appeal, with special emphasis on the Georgia procedure. The following subjects are examined: the nature and methods of review; preparation for review; transfer of causes to appellate courts; brief-writing; disposition of causes on appeal.

Mr. Nix

Selected Materials.

BANKRUPTCY

Four hours

Jurisdiction of the United States and the several states; who may be a bankrupt; who may be petitioning creditors; acts of bankruptcy; what property passes to the trustee; provable claims; duties and powers of the bankrupt and his trustee; protection, exemption and discharge; compositions, extensions and reorganizations.

Mr. Cohn

Hanna and McLaughlin's *Cases on Creditors' Rights* (4th edition).

CONFLICT OF LAWS

Two Sections

Four hours

Jurisdiction over persons and things; domicile as a basis of personal jurisdiction; law governing the creation of personal and property rights; the recognition and enforcement by one state of rights created by the laws of another state, including questions arising out of capacity, marriage, legitimacy, and inheritance; the nature and effect of judgments and decrees, and their enforcement outside the jurisdiction where rendered.

Mr. Hosch and Mr. Henderson

Cheatham, Dowling, Goodrich and Griswold *Cases on Conflict of Laws*, (3rd Edition).

DAMAGES

Four hours

Nominal and exemplary damages; compensatory damages; direct and consequential damages in tort and contract cases; aggravation and mitigation of damages; liquidated damages; value; interest; counsel fees and other expenses of litigation; non-pecuniary losses; entirety of recovery; damages in specifications.

Mr. Jones

McCormick's *Cases on Damages*.

EQUITY III

Two hours

Interpleader; bills of peace; bills *quia timet* for the cancellation and surrender of contracts; removal of cloud on title; declaratory judgments.

Mr. McWhorter

Chafee's *Cases on Equitable Remedies*.

FEDERAL PROCEDURE

Three hours

Nature, source and extent of the Federal judicial power. Original, removal, and appellate jurisdiction and procedure in the Federal Courts. State laws as rules of decision. Practice under the Rules of Civil Procedure.

Mr. Green

McCormick and Chadbourn's *Cases on Federal Courts* (2nd Edition).

GOVERNMENT REGULATION OF BUSINESS

Four hours

In this course a study is made of contracts and combinations in restraint of trade, the Sherman anti-trust act, trade marks and trade names, regulation of advertising, appropriation of competitor's trade values and the misrepresentation of his product, resale price fixing, tying agreements and national legislation against price discrimination.

Mr. Henderson

Handler's *Cases and Materials on Trade Regulation*.

JURISPRUDENCE

Four hours

A study of the principal theories of law; law and morals; the various social and economic interests, and their competition with one another. How interests may come to be recognized as legal rights and enforced in the courts.

Mr. Henderson

Casebook to be announced.

LABOR LAW

Four hours

History of the labor movement; interference with advantageous relations; inducing breach of contract; termination of relationship and legislative regulation of anti-union contracts. Conduct of a striker, and the right to strike. Federal intervention in labor controversies, including operation of National Labor Relations Board.

Mr. Niz

Handler's *Cases and Materials on Labor Law*.

LEGISLATION

Three hours

A course in the techniques of drafting and interpreting legislation and the mechanics of legislative procedure.

Mr. Green

Cohen's *Materials on Legislation*.

MILITARY LAW*

Four hours

Organization and functions of the Judge Advocate General's Corps; historical and constitutional basis of military law; substantive and procedural military justice; military habeas corpus; war crimes and military commissions; laws of war and related international law problems; military administrative law problems; government contracts and procurement regulations; Federal Tort Claims Act and claims administration.

Mr. Hosch and Mr. Jones

Manual for Courts-Martial 1951 and Selected Materials.

OFFICE PRACTICE

Four hours

A study of the interpretation and draftmanship of statutes, administrative regulations, contracts, and corporate charters and bylaws; with special reference to legislation, leases, escrow agreements, sales agreements, security

*Registration open to second-year students.

transactions, and corporate papers; employing techniques of student draftsmanship and critique extensively.

Mr. Henderson

Cook's Cases and Materials on Legal Drafting.

PRACTICE COURT

Two hours

A course in practice to acquaint students with actual practice in trial courts. Students are required to prepare pleadings, issue process, file and docket suits, argue cases before court and jury, prepare verdicts, judgments and motions for new trial.

Mr. Green

Selected Materials.

PROPERTY III

Four hours

This course is open only to students who have had the courses in Property I and II. Among the topics presented are: reversions, possibilities of reverter and rights of entry for condition broken, remainders and executory interests, vesting of future interests, limitations to classes and the rule against perpetuities.

Mr. Lenoir

Leach's Cases and Materials on Future Interests (2nd edition).

PUBLIC UTILITIES

Four hours

Consideration of the evolution of the public utility concept, and of its present-day scope in American law. Especial attention is given to problems of valuation and rate-control and to the regulation of public utilities by administrative commissions both State and Federal.

Mr. Feild

Smith, Dowling and Hale's *Cases on Public Utilities.*

REAL ESTATE TRANSACTIONS

Four hours

A comprehensive course pertaining to the practical aspects of examination of titles, abstracts of titles, title insurance, real estate sales and real estate loans.

Mr. Birchmore

Selected Materials.

RESTITUTION

Three hours

A study of the legal consequences of various types of defects in the formation and in the performance of contracts with special emphasis on available remedies, legal and equitable, contractual and quasi contractual. It deals with the right to the restitution of benefits conferred under mistake both of fact and of law.

Mr. Feild

Laube's *Cases on Quasi Contracts.*

SECURITY TRANSACTIONS

Four hours

This course deals with the problems which arise in connection with the subjects of suretyship and real estate and chattel mortgages. The following are among the many subjects discussed: creation of suretyship, relation; surety's rights against the principal debtor; defenses of the surety; the subject of security interests in land; the creation of land security devices; priorities; assignment and enforcement of real estate security; real estate finance; pledges; conditional sales.

Mr. Green

Casebook to be announced.

TAXATION I—THE FEDERAL INCOME TAX

Five hours

In this course an effort is made to correlate the accounting and legal approach to Federal income tax problems. Decisions interpreting the Federal income tax statutes are studied not only from the point of view of the legal concepts involved, but also with attention to the accounting angle of the problem. The course includes the taxation of incomes of individuals, partnerships and fiduciaries, with special attention to the problem of tax deductions and credits.

Mr. Heckman

Casebook to be announced.

TAXATION II—FEDERAL TAXES OTHER THAN THE INCOME TAX

Three hours

This course is a continuation of Taxation I. It is concerned with the legal and accounting problems arising from the Federal tax on corporations, gifts and estates. As in the preceding course, an effort is made to present both the accounting and legal aspects of a tax case for a better understanding of the problem as a whole.

Mr. Heckman

Casebook to be announced.

TRUSTS

Four hours

The work in Trusts covers the creation and elements of a trust, charitable trusts, resulting and constructive trusts, administration and termination of trusts, the transfer of the beneficial interest and liabilities to third parties.

*Mr. Lenoir*Scott's *Cases on Trusts* (3rd edition).**WILLS**

Five hours

A general survey of the law of wills dealing with execution, revocation, republication, and probate with a study of the laws of descent and distribution.

*Mr. Field*Costigan's *Cases on Wills* (3rd edition).

THE SCHOOL OF PHARMACY

THE FACULTY

KENNETH LEE WATERS, A.B., M.S., Ph.D., *Dean.*

WILLENA DUDLEY BRIDGES, *Secretary.*

JOHN FRANCIS BURKE, B.B.A., M.B.A., *Associate Professor of Accounting.*

WOODROW R. BYRUM, B.S.Pharm., Ph.D., *Professor of Pharmacology.*

WILLIS FRANK DOBBS, B.S., *Assistant Professor of Pharmacy and Coordinator
Special Services, Division of General Extension.*

BOYCE MOULTRIE GILBERT, Ph.G., *Assistant Professor of Pharmacy.*

CHARLES WILLIAM HARTMAN, B.S.Pharm., *Instructor of Pharmacy.*

JOSEPH PAUL LARocca, B.S., M.S., Ph.D., *Professor of Pharmacy.*

FRANCIS FORD MILLIKAN, B.S.Pharm., M.S.Pharm., M.S.Chem., *Associate Professor
of Pharmacy.*

ROBERT MONROE STYLES, B.S.Pharm., *Instructor in Pharmacy.*

KENNETH LEE WATERS, A.B., M.S., Ph.D., *Professor of Pharmacy and Dean of
the School of Pharmacy.*

ROBERT CUMMING WILSON, Ph.G., *Dean Emeritus of the School of Pharmacy.*

OMER CLYDE ADERHOLD, B.S.A., M.S., Ph.D., *President of the University.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Dean of Faculties.*

JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Dean of Student Affairs.*

WALTER NEWMAN DANNER, JR., B.S.A.E., M.S.A., *Registrar and Director of
Admissions.*

JOHN DIXON BOLTON, C.P.A., *Comptroller and Treasurer.*

Courses other than Pharmacy are taught by faculties of other Schools and Colleges within the University.

ADDRESS ALL CORRESPONDENCE TO DEAN, SCHOOL OF PHARMACY, UNIVERSITY OF GEORGIA, ATHENS, GEORGIA.

GENERAL INFORMATION

The School of Pharmacy was created and became an integral department of the University in 1903. During the first twenty-three years the pharmacy course extended over a period of two years. Students completing the course received the certificate, Graduate in Pharmacy. Beginning in September, 1926, the four-year plan of study leading to the degree, Bachelor of Science in Pharmacy, was inaugurated.

FUNCTIONS OF THE SCHOOL OF PHARMACY

The primary function of the School of Pharmacy is to train young men and women for positions of responsibility in retail pharmacy or for service in one or more branches of pharmacy. It is felt that this can best be done by co-ordinating the instruction in the cultural and scientific courses with the instruction of a distinctly technical nature. An additional function is to give the graduate a proper conception of his professional responsibilities and thereby enable him to correlate his efforts with those of the medical profession and other public health agencies in the interest of public health.

WOMEN IN PHARMACY

Of the estimated 85,000 pharmacists in the United States approximately 5,000 are women. In recent years about fifteen percent of students enrolled in colleges of pharmacy have been women, and the number is steadily increasing. Women function well in all capacities in pharmacy, particularly in the research and control laboratories of the pharmaceutical manufacturers, in hospital dispensaries, and in the retail practice of the profession.

The suitability of pharmacy as a career for women is just beginning to be fully realized. There are no severe physical requirements which place them at a disadvantage; they can deal with the "drug store public"—a majority of which is composed of women—much more skillfully in many phases of pharmaceutical practice than men. In achieving the ambition of owning one's own business, women face highly favorable conditions in pharmacy, with certain special opportunities found in no other field; and, finally, the fact that the place for women in pharmacy is receiving somewhat belated recognition creates particularly auspicious circumstances for those who now select this profession.

FACILITIES

The School of Pharmacy occupies its own building, formerly known as New College. Laboratories, class rooms, and reading rooms are all well lighted and ventilated. A special feature of the instruction is provided in the Dispensing and Pharmacology laboratories which have been handsomely equipped through funds donated by a friend of the School. The building is near the Infirmary, the General Library, and the buildings in which Pharmacy students take most of their courses.

MILITARY TRAINING

All men students in the freshman and sophomore classes who are citizens of the United States and who are not physically disqualified or otherwise exempted must take the basic courses in military or air science and tactics. The basic courses are Military Science 1-2 and Air Science 5-6.

Those students who satisfactorily complete the basic training may apply for admission to the Advanced Military Training. It is the mission of the Senior Division of the ROTC to produce junior officers who have the qualities and attributes essential to their progressive and continued development as officers in the Army and Air Force of the United States.

DEGREES OFFERED BY THE SCHOOL OF PHARMACY

B. S. PHARMACY

The School of Pharmacy offers the degree of Bachelor of Science in Pharmacy upon completion of the required 190 quarter hours of academic work.

Students planning to study pharmacy should enter at the beginning of the freshman year, or not later than the second year, since three academic years (9 quarters) of residence in the School of Pharmacy is required for graduation.

M. S. PHARMACY

The University of Georgia Graduate School offers the degree of Master of Science in Pharmacy, the Bachelor of Science degree in Pharmacy being the prerequisite.

A student will be admitted to candidacy for this degree only after he has shown a reading knowledge of either French or German and after he has passed preliminary written or oral examinations given by the School of Pharmacy. These examinations cover in a general way the division of pharmacy, pharmaceutical analysis, pharmacology, and organic medicinal chemistry. Candidates will choose one of their minors outside the School of Pharmacy. Application for admission to candidacy must be filed with the Dean of the Graduate School before the first day of classes of the final quarter of full residence.

The thesis must be written, approved by the major professor and placed in the hands of the Dean of the Graduate School at least three weeks before the date of graduation.

ADMISSION TO THE FIRST YEAR CLASS

Applications for admission should be made as early as possible, after graduation from high school. The applicant must have his principal send his complete high school record to the Director of Admissions. No application is complete and consequently can not be accepted or rejected until this record has been received by the Director of Admissions. Four academic years are required to obtain the B. S. Pharmacy Degree.

The first year class is limited to fifty students.

ADMISSION TO SECOND YEAR CLASS

A number of applications are received for admission with advanced standing. Unfortunately, all of these can not be accepted. The number admitted to the second year class is governed by the number of vacancies. To be admitted to the second year class the applicant must submit a minimum of forty quarter hours which count toward the B.S. in Pharmacy degree. Ten hours must be in Chemistry and the remaining 30 chosen from the following: Human Biology, Vertebrate Zoology, English, College Algebra, Physics, Economics, or Political Science. Selection of students for admission to the second year class will be based on the previous collegiate record of the applicant and his general aptitude for Pharmacy. Applicants should have a "C" average before applying for admission to the second year class. It is preferable for a student to spend the entire four years in the School of Pharmacy, thus having the advantage of its direction and guidance in courses taken.

This School, and other member Schools of the American Association of Colleges of Pharmacy, require a student to spend a minimum of nine quarters in the School of Pharmacy. Because of the sequence of courses, this generally requires three calendar years, regardless of the amount of advanced credit offered.

Application for admission to the second year class, and an official transcript of all college work taken must be sent to the Dean of the School of Pharmacy. Applications should be submitted as early as possible, as the applicant may be required to take Pharmacy Aptitude tests. The Committee on Admissions usually makes the initial selection during the Spring Quarter.

PRACTICAL EXPERIENCE

Practical experience may be obtained any time after the applicant has graduated from high school, and has passed his sixteenth birthday. No credit for practical experience is given when obtained concurrently with school work.

All apprentice pharmacists must notify the Chief Drug Inspector, Georgia State Board of Pharmacy, 38A Capitol Square, S.W., Atlanta 3, Georgia, within five days after starting to work, if credit for practical experience is desired. The pharmacist supervising the apprentice must also notify the Chief Drug Inspector that the apprentice is under his supervision. Termination of any portion of the apprenticeship must be reported by the pharmacist and the apprentice.

All practical experience must be recorded in a notebook in diary form and must be certified by a pharmacist or pharmacists supervising the experience. Upon the completion of the apprenticeship, the notebook must be notarized and submitted to the State Board of Pharmacy at the time of the examination. This "notebook" requirement applies to all who registered in the School of Pharmacy subsequent to September 1, 1947.

SPECIAL REGULATIONS

CLASS ATTENDANCE—Students in the School of Pharmacy must observe strict absence regulations administered by the Dean of the School of Pharmacy. Absence from classes or other evidence of indifference on the part of a student results in failures; and, since students in the School of Pharmacy are preparing for a definite professional career, indifference to college work will not be condoned. A student who incurs an excessive number of absences may be placed on probation or dismissed from the University.

SPECIAL SCHOLARSHIP REQUIREMENTS—In addition to the general University requirements relative to scholarship, the following requirement must be met by all pharmacy students:

"Any student registered in the School of Pharmacy who, at the end of the second year, does not have a weighted average of 70 or more in all work taken since entering the School of Pharmacy, will not be entitled to continue in attendance in the School except by special permission of the Pharmacy faculty. Such permission will be granted only in exceptional cases."

At least a grade of "C" must be earned in all required Pharmacy courses and approved substitutes, before credit for the course will be given toward graduation.

CLASSIFICATION OF STUDENTS—The academic and the School of Pharmacy classification of students may not necessarily be the same. Other undergraduate schools and colleges of the University require students to have completed a minimum of thirty-seven hours with an average grade of "C" or better to be classified as a sophomore. The School of Pharmacy requires a student to have completed forty hours with an average grade of "C" or better to be classified as a second-year student. To be classified as a third-year student, eighty-five hours must have been completed and as a fourth-year student, one hundred and forty-two hours must have been completed. In classifying students, only those courses which may be credited toward the B.S. in Pharmacy degree will be counted. An average grade of "C" must be made in these courses. A student may not be permitted to take second-

year, third-year or fourth-year courses in the School of Pharmacy unless he is classified as a second-year, third-year or fourth-year student respectively. The classification under which a student registers at the beginning of the academic year will continue through that year.

SPECIAL EXAMINATIONS—All entering freshmen are required to take regular placement examinations. Pharmacy applicants may be required to take other examinations which will show their general aptitude for Pharmacy. Students showing a deficiency in mathematics or in reading ability may be required to take certain non-credit courses to remove this deficiency.

LIMITATION ON STUDENT EMPLOYMENT—Since it is realized that the classroom work is only a part of the student's program in securing an education, a student should not accept employment which will interfere with his scholastic program. A student who makes a poor scholastic record will be required to reduce his working load or his scholastic load.

STUDENT AID

The Women's Auxiliary of the Georgia Pharmaceutical Association lends a small amount of money each year to deserving students in the junior and senior years who are making creditable marks. This loan is handled by the Auxiliary on recommendation of the Dean of the School of Pharmacy.

Other University loan funds are open to pharmacy students. Generally these are made available only to students who have completed their first year's work.

THE ROBERT CUMMING WILSON AWARD

The Robert Cumming Wilson Award is given to a member of the senior class in pharmacy who excels in scholarship, character and interest in the ideals of pharmacy. The amount of this award depends on the income from a fund set aside for this purpose by I. Z. Harris, Class of 1915. The minimum is fifty dollars.

ATLANTA DRUG AND CHEMICAL CLUB AWARDS

The Atlanta Drug and Chemical Club annually awards two cash prizes of twenty-five dollars each. One prize is given to an honor student who excels in pharmacy, and the other is given to an honor student who excels in pharmaceutical chemistry. Fourth year students are eligible for the prize.

RHO CHI AWARD

The Alpha Kappa Chapter of Rho Chi, national honorary Pharmaceutical Society, each year offers an award to an outstanding first year student.

FOUNDATION SCHOLARSHIPS

The American Foundation for Pharmaceutical Education offers scholarships to deserving students who need financial assistance to complete their education. Third and fourth year students with high academic averages are eligible.

STUDENT ACTIVITIES

UNIVERSITY ACTIVITIES—Since the School of Pharmacy is an integral part of the University, its students participate in all University educational, fraternal, literary, athletic, and social activities.

STUDENT BRANCH OF THE AMERICAN PHARMACEUTICAL ASSOCIATION—In addition to general activities of the University, students in the School of Pharmacy maintain a Student Branch of the American Pharmaceutical Association, the function of which is to establish a closer fraternal and social

relationship among students in pharmacy and to broaden their outlook by bringing in speakers on topics related to some health activity.

All students are urged to become active members of this organization.

GEORGIA PHARMACIST—The official publication of the Student Branch of the American Pharmaceutical Association is the *Georgia Pharmacist*. It is published by the students and is mailed to all pharmacists in the State of Georgia and to the alumni of the School of Pharmacy.

RHO CHI—Alpha Kappa Chapter of Rho Chi was established at the University of Georgia in 1949. Charters for chapters of this organization are granted only to groups in schools or colleges that are members in good standing of the American Association of Colleges of Pharmacy. Eligibility for membership in the Society is based on high attainment in scholarship, character, personality, and leadership.

**REQUIRED CURRICULUM FOR THE DEGREE OF BACHELOR
OF SCIENCE IN PHARMACY**

(For students entering after September 1, 1951)

A total of 190 hours, in addition to Military Science or Air Science and Physical Education, are required for graduation.

FIRST YEAR

FALL	Hours	WINTER	Hours	SPRING	Hours
Chemistry 21	5	Chemistry 22	5	Chemistry 23	5
Pharmacy 11	1	Pharmacy 12	1	Pharmacy 13	1
English 2x	5	English 2y	5	Political Science 1	5
Mathematics 101x	5	Human Biology 1	5	Human Biology 2	5
Mil. Sci. 1a or		Mil. Sci. 1b or		Mil. Sci. 1c or	
Air Sci. 5a	2	Air Sci. 5b	2	Air Sci. 5c	1
Physical Education	0	Physical Education	0	Physical Education	0
	18		18		17

SECOND YEAR

FALL	Hours	WINTER	Hours	SPRING	Hours
Chemistry 380	5	Chemistry 340a	5	Chemistry 340b	5
Physics 20	5	Economics 5x	5	Zoology 26	5
Pharmacy 301	3	Pharmacy 302	3	Pharmacy 303	3
Pharmacy 321	3	Pharmacy 322	3	Pharmacy 323*	3
Mil. Sci. 2a or		Mil. Sci. 2b or		Mil. Sci. 2c or	
Air Sci. 6a	2	Air Sci. 6b	2	Air Sci. 6c	1
Physical Education	0	Physical Education	0	Physical Education	0
	18		18		17

THIRD YEAR

FALL	Hours	WINTER	Hours	SPRING	Hours
Pharmacy 331	5	Pharmacy 332	5	Pharmacy 333	5
Pharmacy 396	3	Pharmacy 310	5	Physiology	5
Bacteriology 350	5	Bacteriology	3	Pharmacy 378	3
Pharmacy 341	3	Pharmacy 342	3	Pharmacy 343	3
	16		16		16

FOURTH YEAR

FALL	Hours	WINTER	Hours	SPRING	Hours
Pharmacy 381	5	Pharmacy 382	5	Pharmacy 383	5
Pharmacy 377	5	Pharmacy 376	5	Pharmacy 390	3
Pharmacy 334	3	Pharmacy 335	3	Pharmacy 336	3
Pharmacy 392	3	Pharmacy 393	3	Pharmacy 394	3
	16		16		14

FOURTH YEAR CLASS TRIPS—Members of the fourth year class annually visit hospitals, pharmaceutical manufacturers, and wholesale houses. Although not required, all fourth year students are urged to participate in such excursions.

*Pharmaceutical Arithmetic Achievement Test prerequisite for this course.

DESCRIPTION OF COURSES

The University reserves the right to withdraw any course for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses meet five times a week and carry five hours credit.

1X. REMEDIAL PHARMACEUTICAL ARITHMETIC. 3 hours. *Mr. Gilbert and Mr. Hartman.*

A course designed for students who are deficient in the principles of elementary arithmetic. The course will meet five times per week, although only 3 credit hours will be given. Students showing deficiency in Pharmaceutical Arithmetic Achievement tests will be required to take the course as a prerequisite to Pharmacy 323.

11-12-13. PHARMACY ORIENTATION. 3 hours. (1 hour each quarter). *The Staff.*

Lectures will serve to initiate the student into the profession of pharmacy. The history and ethics of the profession will be discussed. A study of pharmacy literature, and the system of weights and measures will be introduced.

321. INTRODUCTORY PHARMACY. 3 hours. *Mr. Millikan and Mr. Waters.*

A discussion of the technical operation of pharmacy, including definitions and official preparations.

322. INTRODUCTORY PHARMACY. 3 hours. *Mr. Millikan and Mr. Waters.*

The inorganic preparations of pharmacy with the special application of chemistry to the official preparations.

323. INTRODUCTORY PHARMACY. 3 hours. *Mr. Gilbert and Mr. Hartman.*

(Those students showing deficiency in the Pharmaceutical Arithmetic Achievement tests will be required to take Pharmacy 1X as a prerequisite for this course.)

A study of calculations involved in the practice of the profession of pharmacy.

331-332-333. JUNIOR DISPENSING. 15 hours. (5 hours each quarter). Three hours lecture and six hours laboratory weekly. *Mr. Hartman, Mr. LaRocca, and Mr. Styles.*

The general consideration of the underlying principles of prescription compounding. Laboratory work will involve the various types of preparations, and the filling of simple prescriptions.

334-335-336. SENIOR DISPENSING. 9 hours. (3 hours each quarter). One hour lecture and six hours laboratory weekly. A continuation course of 331-332-333. *Mr. Gilbert, Mr. Hartman, Mr. LaRocca, and Mr. Styles.*

A thorough study of prescription compounding, with emphasis on prescription reading and incompatibilities. The filling of prescriptions received by telephone is stressed. The lectures present and discuss the problems confronting the practicing pharmacist. A knowledge of typing is desirable for this course.

395. HOUSEHOLD AND ANIMAL HEALTH PRODUCTS. (Elective). 3 hours. Three hours lecture and recitation. Prerequisite: Fourth year classification. *The Staff.*

The study of fumigants, rodenticides, insecticides, fungicides, weedicides, parasitocides and toxins, serums, vaccines and related products commonly sold in the drug store. Ethics, economic and legal aspects will be stressed.

398. UNDERGRADUATE RESEARCH PROBLEM. (Elective). 3 to 5 hours. Prerequisites: Fourth year classification with an average grade of "B." *The Staff.*

An introduction to research. The course is designed to acquaint the student with the techniques of research. A problem will be assigned and the student will be expected to do library and laboratory work necessary to prepare an acceptable report.

399. PRACTICAL ASPECTS OF PHARMACY. (Elective) Five hours lecture and recitation. Prerequisite: Fourth year classification. *The Staff.*

A course designed to bring together the salient subject matter from pharmacognosy, pharmacology, pharmaceutical chemistry, and pharmacy, in order that the practical aspects of theoretical subjects may be successfully applied to the retail drug field.

PHARMACOGNOSY

301-302-303. PHARMACOGNOSY. 9 hours (3 hours each quarter). Three hours lecture and recitation. *Mr. Byrum and Mr. Styles.*

A study of the history, distribution, collection, commerce, preservation, classification, active constituents, titles, synonyms, definitions, official preparations, therapeutic use and common proprietaries of crude vegetable drugs. Specimens are furnished each student for microscopical and organoleptic identification.

PHARMACOLOGY

381-382-383. PHARMACOLOGY. 15 hours (5 hours each quarter). Fourth year classification. *Mr. Byrum and Assistants.*

An introduction to pharmacology dealing with the modification of the normal physiological processes of the body by the presence of the more common drugs used in medicine. Drugs of the United States Pharmacopoeia, National Formulary, and selected items from the New and Non-Official Remedies are discussed according to pharmaceutical action, toxicology, and therapeutic application.

PHARMACEUTICAL ADMINISTRATION

310. PHARMACEUTICAL ACCOUNTING. Five hours lecture and recitation. *Mr. Burke.*

Elementary accounting principles and procedure suitable for small and medium-sized drug stores operated by independent owners.

390. PHARMACEUTICAL LAWS. 3 hours. Three hours lecture and recitation. *Mr. Waters.*

A review of the various laws involved in pharmaceutical practice.

392-393-394. DRUGSTORE OPERATIONS. 9 hours (3 hours per quarter). *Mr. Dobbs and Mr. Gilbert.*

A study of the methods, policies and practices pertaining to modern merchandising techniques, as buying, pricing, sales promotion, etc., the planning of lay-out and physical equipment that has proven successful in drug stores of America. This course will also cover the principles of stock control, advertising, and the proprietaries of the USP and NF detailing.

396. HYGIENE AND PUBLIC HEALTH. 3 hours. *The Staff.*

A study of the basic functions of the body, maintenance and improvement of personal health, fundamental principles of the common health problems, as well as the spread and prevention of communicable diseases. One-third of the lectures will be devoted to first aid emergencies.

ECONOMICS 5x. PRINCIPLES OF ECONOMICS. *The Economics Staff.*

A description and critical analysis of the organization of modern society from an economic point of view, with a brief introduction to the theory of value and distribution.

BUSINESS ADMINISTRATION 7. PERSONAL TYPING.* No academic credit (five periods a week). *Business Administration Staff.*

An introductory course in typewriting designed to teach in a minimum of time typewriting for personal use. Should be taken before registering for Pharmacy 334.

BUSINESS ADMINISTRATION 8. BUSINESS CORRESPONDENCE.* 3 hours. *Business Administration Staff.*

Qualities and principles of effective business letter writing; practice in writing various types of letters and reports.

PHARMACEUTICAL CHEMISTRY

341-342-343. ORGANIC PHARMACEUTICAL CHEMISTRY. 9 hours (3 hours each quarter). Prerequisite: 321-322-323 and Chemistry 340a-b. *Mr. Millikan.*

A study of the chemistry of important pharmaceutical organic products to include sources, properties, reactions, and methods of production, with the general consideration between relationship of structure and activity of natural and synthetic organic medicinals which are used in pharmaceutical practice.

376. BIOPHARMACY. Three hours lecture, four hours laboratory. *Mr. Millikan and Mr. Waters.*

A study of biochemistry and those problems closely related to pharmacy which are of importance to the practicing pharmacist.

*Elective credit—highly recommended for all students.

377. PHARMACEUTICAL ASSAY. 5 hours. Two hours lecture, six hours lab. *Mr. Millikan* and *Mr. Waters*.

A study of the official and standard methods of assay of some common pharmaceuticals. The student is familiarized with instrumentation procedures as used by the modern pharmaceutical firm.

378. ADVANCED THEORETICAL PHARMACY. 3 hours. Three hours lecture and three hours laboratory. *Mr. Millikan* and *Mr. Waters*.

A study of the certain theoretical concepts of pharmaceutical preparations, including physicochemical considerations of stability and of manufacturing.

ZOOLOGY

26. GENERAL ZOOLOGY. Two lectures and three double laboratory periods. *Mr. Odum* and *Assistants*.

A study of the structure, body functions, interrelations, and natural history of the vertebrate animals.

BACTERIOLOGY

350. INTRODUCTORY BACTERIOLOGY. Two lectures and recitations and three double laboratory periods. Breakage deposit, \$2.50. Prerequisites: Chemistry 21-22 and two courses in Biological Science. *Bacteriology Staff*.

PATHOGENIC BACTERIOLOGY. 3 hours. *Bacteriology Staff*.

Special application to problems closely related to the practice of retail pharmacy, including aspects of public health.

BIOLOGY

1-2. HUMAN BIOLOGY. Double course. 10 hours (five hours a quarter). *Zoology Staff*.

CHEMISTRY

21. INORGANIC CHEMISTRY. Three lectures or recitations and two laboratory periods. Breakage deposit, \$5. *Chemistry Staff*.

A general course in the chemistry of non-metallic elements, including a systematic treatment of chemical principles and their applications.

22. INORGANIC CHEMISTRY. Three lectures or recitations and two laboratory periods. Breakage deposit, \$5. Prerequisite: Chemistry 21. *Chemistry Staff*.

A continuation of Chemistry 21, including a general survey of the metallic elements.

23. QUALITATIVE INORGANIC ANALYSIS. Two lectures or recitations and three laboratory periods. Breakage deposit, \$5. Prerequisite: Chemistry 22 or 24. *Chemistry Staff*.

The fundamental theories of qualitative analysis and analyses of the common cations and anions.

340 a-b. ORGANIC CHEMISTRY. 10 hours. Three or four lectures or recitations and one or two laboratory periods. Breakage deposit, \$10 (\$5 for each quarter). Prerequisite: Chemistry 21-22 with a minimum grade of 70. *Chemistry Staff*.

Chemistry 340a—The aliphatic hydrocarbons and their derivatives. Chemistry 340b—a continuation of 340a and a treatment of the coal tar compounds.

380. QUANTITATIVE INORGANIC ANALYSIS. Two lectures and three laboratory periods. Breakage deposit, \$5. Prerequisite: Chemistry 23. *Chemistry Staff*.

The fundamental theories of quantitative analysis and typical gravimetric, volumetric and acidimetric analysis.

ENGLISH

2 x-y. COMPOSITION. 10 hours (5 hours a quarter). *English Staff*.

First quarter: grammar, punctuation, mechanics, diction, and sentence structure. Second quarter: readings from English and American literature. Themes and parallel reading required throughout the course. Conferences on themes and reading.

MATHEMATICS

101x. COLLEGE ALGEBRA. Prerequisite: At least two units of high school mathematics, including one year of algebra. *Mathematics Staff.*

Review of some elementary algebra, quadratic equations, binomial theorem, progressions, complex numbers, theory of equations, permutations, combinations and probability.

PHYSICS

20. PHYSICS SURVEY. Four lectures and one laboratory period. *Physics Staff.*

An elementary survey of the development of physics with a study of some of the simpler applications of physics. The laboratory work will be devoted to measurements designed to give an introduction in laboratory methods.

POLITICAL SCIENCE

1. AMERICAN GOVERNMENT. *Political Science Staff.*

An introductory course covering the essential facts of federal, state, and local government.

GRADUATE COURSES

For any graduate course in Pharmacy the prerequisites are two senior division courses in Pharmacy or related subjects, plus any specified prerequisites.

410. PHARMACEUTICAL CONTROL AND ANALYSIS. Two lecture and six laboratory periods. *Mr. Millikan* and *Mr. Waters.*

Lectures, reading and analytical procedures of more complicated nature taken from USP, NF and AOAC. Pharmaceutical control methods are studied.

411-412. SYNTHETIC MEDICINAL PRODUCTS. 5 hours each quarter. Five lecture periods per week each quarter. *Mr. LaRocca.*

The chemistry and synthesis of anti-histaminics, etc. Special emphasis to be placed on correlation of structure with physiological activity and industrial application of processes.

414-415. ORGANIC PHARMACEUTICAL SYNTHESIS. 5 hours each quarter. One consultation and eight laboratory periods per week each quarter. *Mr. LaRocca* and *Mr. Waters.*

Application of synthetic procedures in the preparation of various medicinal chemicals and their intermediates.

420. INSTITUTIONAL PHARMACY. 3 hours. Three lecture periods. Prerequisites: Pharmacy 361. *Mr. Byrum*, *Mr. LaRocca*, and *Mr. Waters.*

A study of institutional pharmacy including the large professional store. Methods of purchasing, stock control, storage, coordination of operations, and management of related departments are included.

421. SPECIAL TOPICS IN PHARMACY. 2 hours. Two lecture periods. *Mr. Millikan.*

A study of newer pharmaceutical preparations and to include the detailed examinations of preparations involving chemical reactions and special assigned topics.

422. PHARMACEUTICAL TECHNOLOGY. Two lecture and six laboratory periods. *Mr. Millikan* and *Mr. Waters.*

Lectures to include a study of different equipment used in pharmaceutical manufacturing. Laboratory work to involve pilot plant scale manufacturing.

423. ADVANCED PHARMACEUTICAL TECHNOLOGY. Two lecture and six laboratory periods. Prerequisite: Pharmacy 422. *Mr. Millikan* and *Mr. Waters.*

Lecture and laboratory work will place special emphasis on the more complicated procedures encountered in manufacturing. Such topics as enteric coating, tablet granulations, special and parenteral solutions, and organization of pharmaceutical manufacturing establishments will be taken up.

430. PROBLEMS ON DRUG STANDARDIZATION BY BIOLOGICAL METHODS. 3 hours. Three lecture periods. Prerequisite: Pharmacy 381. *Mr. Byrum.*

A survey of the field of bioassay with a specific study of one or more methods for the development of a satisfactory procedure. The application of statistical methods to the problems of biological assay is studied.

431. STUDIES IN PHARMACODYNAMICS. Two lecture and six laboratory periods. Prerequisites: Pharmacy 381. *Mr. Byrum.*

The procedures involved in modern research in pharmacological analysis and in the determination of the site of action and nature of action of drugs through participation in departmental researches upon problems in pharmacology.

432. PROFESSIONAL SURVEY. 3 hours. Three lecture periods. Prerequisite: Pharmacy 430. *Mr. Byrum.*

Conference, library and projects designed to prepare the graduate student for professional service in the field of pharmacology.

Address all correspondence to the Dean, School of Pharmacy, University of Georgia, Athens, Georgia.

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- RICHARD SMITH, B.S.Ed., *Administrative Assistant (Extension)*.
- THOMAS HUDSON SMITH, B.S., M.Ed., *Instructor in Chemistry*.
- BYRON LESTER SOUTHWELL, B.S.A., M.S.A., *Animal Husbandman (Tifton, Georgia), U.S.D.A.*
- MELBA INEZ SPARKS, B.S.H.E., *District Agent (Extension)*.
- GEORGE NORTH SPARROW, B.S.C.E., *Project Supervisor and Research Associate in Agricultural Engineering (Tifton, Georgia), U.S.D.A.*
- STEPHEN JOHNSON SPECK, B.S., M.S., *Assistant Dairyman and Acting Creamery Superintendent*.
- MARY SPIERS, B.S., M.A., Ph.D., *Home Economist (Experiment, Georgia)*.
- GARTH HIRAM SPITLER, B.S., *Assistant Entomologist (Tifton, Georgia), U.S.D.A.*
- SAMUEL VAUDE STACY, B.S., M.S., *Agronomist (Experiment, Georgia)*.
- JAMES MIDDLETON STANLEY, B.S.A.E., *Research Assistant Professor of Agricultural Engineering and Agricultural Engineer, (Tifton, Georgia), U.S.D.A.*
- OSCAR STEANSON, B.S., M.S., *Associate Agricultural Economist (Experiment, Georgia)*.
- MATTHIAS STELLY, B.S., M.S., Ph.D., *Professor of Agronomy*
- JAMES DAVID STEPHENS, B.S.A., *Associate Editor—Radio (Extension)*.
- HENRY PERKINS STUCKEY, B.S., Sc.D., *Director Emeritus (Experiment, Georgia)*.
- DARRELL THORNTON SULLIVAN, B.S.A., M.S.A., *Assistant Professor of Horticulture*.
- REYNOLD FOY SUMAN, B.S., *Range Conservationist (Tifton, Georgia), U.S.D.A.*
- STELLA CAUDILL SUTTON, B.S., *Librarian (Tifton, Georgia)*.
- WILLIAM ABNER SUTTON, B.S.A., *State 4-H Club Leader*.
- JACK TAYLOR, B.S.A., *Assistant Plant Pathologist (Blairsville, Georgia)*.
- RICHARD BONELL TAYLOR, A.B., B.S., *Assistant Professor of Landscape Architecture*.
- ERNEST HENRY THOMAS, B.S.A., *Associate Agronomist (Extension)*.
- JOHN HENRY THOMASON, B.S.A., M.S.A., *Assistant Professor of Animal Husbandry*.
- GEORGE EDWARD THOMPSON, B.S.A., M.A., Ph.D., *Associate Professor of Plant Pathology and Plant Breeding*.
- JACK THOMAS THOMPSON, B.S., *Assistant Agronomist (Experiment, Georgia)*.
- RALPH HARMON TOLBERT, A.B., B.S.A., M.S.Ed., *Associate Professor of Agricultural Education and Acting Head of the Division of Vocational Education*.

- KENNETH TREANOR, B.S.A., *Agricultural Economist (Extension)*.
- CHARLES EUGENE TURNER, B.F.A., *Instructor in Agricultural Engineering and Illustrator, Southern Association of Agricultural Engineering and Vocational Agricultural Educators*.
- JOHN HANCOCK TURNER, JR., B.S.A., *Agronomist (Tifton, Georgia)*.
- FRANK VAN HALTERN, B.S., M.S., *Associate Plant Pathologist (Experiment, Georgia)*.
- MARTIN LUTHER VAN WINKLE, Ph.B., B.S.A., M.S., *Assistant Recreationist, (Extension)*.
- HALSEY HUGH VEGORS, A.B., *Parasitologist (Experiment, Georgia), U.S.D.A.*
- JOHN COUSE WALTERS, *Scientific Aid (Tifton, Georgia), U.S.D.A.*
- CHARLES HERMAN WARNOCK, A.B.J., *Editor (Experiment, Georgia)*.
- *EDWARD PERRIN WARREN, B.S.A., M.A., *Assistant Professor of Animal Husbandry*.
- LUKE STEPHENS WATSON, B.S.A., *District Agent (Extension)*.
- JAMES LEROY WEIMER, A.B., Ph.D., *Senior Plant Pathologist (Experiment, Georgia), U.S.D.A.*
- BRANSON EDWIN WELBORN, B.S.A., *Assistant Agricultural Economist (Extension)*.
- HARMON KEENER WELCH, JR., B.S., *Assistant Dairyman (Extension)*.
- EDISON COLLINS WESTBROOK, B.S.A., *Agronomist (Extension)*.
- LLOYD CLAIBORNE WESTBROOK, B.S.A., *District Agent (Extension)*.
- JONATHAN JACKSON WESTFALL, B.S., M.S., Ph.D., *Professor of Botany and Head of the Department of Botany*.
- MARY LOU WHATLEY, B.S., *Assistant Home Economist (Experiment, Georgia)*.
- LEE ROY WHEELER, *Agricultural Aid (Tifton, Georgia), U.S.D.A.*
- ROBERT STEVENSON WHEELER, B.S., Ph.D., *Professor of Poultry Husbandry, Head of the Department of Poultry Husbandry, and Chairman of the Poultry Division*.
- HAROLD DOUGLAS WHITE, B.S.A.E., M.S., *Research Professor of Agricultural Engineering*.
- HARRY ALTON WHITE, B.S., M.S., *Cooperative Agent—Farm Management (Extension), U.S.D.A.*
- BROOKS EDWARD WIGGINGTON, A.B., B.F.A., M.L.A., *Professor of Landscape Architecture*.
- CECIL NORTON WILDER, B.S.A., M.S.A., *Associate Professor of Agricultural Chemistry*.
- RALPH OTTO WILLIAMS, B.S., *Assistant Animal Husbandman (Extension) (Tifton, Georgia)*.

CHARLES CHRISTOPHER WILSON, B.S., M.A., Ph.D., *Associate Professor of Botany.*

HOWARD HENRY WOEBER, B.S., M.S., *Associate Chemist (Experiment, Georgia).*

JASPER GUY WOODROOF, B.S.A., M.S.A., Ph.D., *Food Technologist and Chairman of the Division of Food Processing (Experiment, Georgia).*

NAOMI CHAPMAN WOODROOF, B.S., M.S.A., *Associate Plant Pathologist (Tifton, Georgia), U.S.D.A.*

ANN ELIZABETH ZELLNER, B.S.H.E., *Assistant State 4-H Club Leader.*

OMER CLYDE ADERHOLD, B.S.A., M.S., Ph.D., *President of the University.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Dean of Faculties.*

JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Dean of Student Affairs.*

WALTER NEWMAN DANNER, JR., B.S.A.E., M.S.A., *Registrar and Director of Admissions.*

JOHN DIXON BOLTON, C.P.A., *Comptroller and Treasurer.*

GENERAL INFORMATION

Each state has one institution of higher learning known as a Land-Grant College or University which is approved by officials of the Federal Government for giving college instruction in agriculture and related fields. In Georgia that institution is the University of Georgia, of which the College of Agriculture is an integral part.

The University of Georgia is a member of the American Association of Land-Grant Colleges and Universities. It has been approved by the United States Commissioner of Education for giving college instruction in agriculture and agricultural engineering. The University receives grants from the Federal Government to aid in financing its educational program in these fields. It is officially recognized and approved by the United States Department of Agriculture and other agencies of the Federal Government concerned with farming and related occupations.

The College of Agriculture provides a coordinated and integrated program of research, college teaching, and extension services. It embraces the agricultural experiment stations and the Agricultural Extension Service. Responsibility for administration is vested in the Dean and Director, who is responsible to the President of the University. Under the Dean and Director there are three associates, as follows: an associate dean in charge of instruction; an associate director in charge of extension work; an associate director in charge of experiment stations. At each of the experiment stations, including Athens, Experiment, and Tifton, there is a resident director in charge.

In the College of Agriculture there are thirteen subject matter fields or divisions, each of which embraces research, teaching, and extension, and each of which is in charge of a chairman. These divisions are: agronomy, agricultural economics, animal diseases, agricultural engineering, animal husbandry, dairy, entomology, food processing, home economics, horticulture, landscape architecture, plant pathology, poultry husbandry. In addition, there are several schools and colleges with which relationships have been established for conducting programs including teaching, research, and extension services; these include fields such as botany, chemistry, education, entomology, forestry, home economics, and veterinary medicine.

COURSES AND DEGREES

The College of Agriculture offers degree courses in agriculture, agricultural engineering, and landscape architecture. It is also recommended that students seeking admission to the School of Veterinary Medicine register in the College of Agriculture while enrolled in the pre-veterinary program.

Upon completion of the twelve-quarter course outlined, students registered in agriculture may receive the degree of Bachelor of Science in Agriculture, and students in agricultural engineering, the degree of Bachelor of Science in Agricultural Engineering.

Graduate work is offered in both agriculture and agricultural engineering. Master's degrees—Master of Science in Agriculture and Master of Science in Agricultural Engineering—normally require three quarters in residence after requirements for the bachelor's degree have been completed. Also, there is offered the degree Master of Agriculture. This professional degree, more varied in scope than the Master of Science in Agriculture, is designed to meet the needs of persons engaged in such general agricultural pursuits as teacher of agriculture in the public schools, county agent, and workers in other agricultural agencies. Not being a research degree, no thesis as such is required. However, a report, survey or paper may be required in a course listed "921. PROBLEMS IN AGRICULTURE." Minimum requirements include 60 hours credit and four quarters in residence.

Students wishing to prepare themselves for the business of farming but having no desire to secure a degree will be awarded a Certificate of Attainment upon completion of the work outlined for the first six quarters. The course has been planned with this objective in mind.

Many short courses of a practical and intensive nature are offered by the College of Agriculture. Announcements of these courses will be made throughout the year. Any course will be offered for which there is sufficient demand. A citizen of Georgia desiring to take any such course should write to the Dean of the College of Agriculture, indicating the field or problem in which instruction is desired.

The Department of Landscape Architecture, a department in the College of Agriculture, offers two degree courses; one the professional degree B.L.A.—Bachelor of Landscape Architecture; the other, B.S.L.A.—Bachelor of Science in Landscape Architecture.

ADMISSION REQUIREMENTS FOR VETERINARY MEDICINE

In order to matriculate in the School of Veterinary Medicine, a student must present a minimum of 90 credits with a grade of C or better.

To meet these requirements, a student may register in the College of Agriculture and take the following courses:

English 2x-2y	English 6
Chemistry 21-22	Physics 20
Mathematics 101x or 101y	Dairy 3
Botany 21-22	Zoology 25 and 26
Animal Husbandry 1	Political Science 1
Poultry Husbandry 60	Organic Chemistry 346 and 347h
Basic Military or Air (First Year)	(Chemistry 347h is a definite re-
Electives:	quirement.)
Agricultural Economics 4	Basic Military or Air (Second
Agronomy 1 and 10	Year)
Horticulture 1	

All candidates for admission into the entering class in September each year will be required to take during the preceding May or June a veterinary medical aptitude test. The results of this test will become a part of the student's credentials for admittance into the School of Veterinary Medicine.

Recently, the School of Veterinary Medicine has had many more applicants than the maximum number of 50 accepted each year; consequently, any student who is registered in the College of Agriculture may, upon completion of pre-veterinary requirements, continue with the agricultural curriculum, should he fail to gain admittance to the School of Veterinary Medicine. Such students will be able to apply all credits earned to requirements for the B.S.A. degree. Chemistry 346 may be offered as one of the science selections; or, Chemistry 346 and 347h will constitute a minor; or Zoology 25 and 26 and Chemistry 347h will be accepted as electives in most divisions of the College of Agriculture.

B.S.A. DEGREE IN CONJUNCTION WITH D.V.M. DEGREE

A student in the School of Veterinary Medicine may, in conjunction with his work toward the D.V.M. degree, complete the requirements for a B.S. degree in Agriculture, by taking from three to four quarters of additional work prior to, during, and/or subsequent to his work in Veterinary Medicine, the amount of extra work depending on the department of his major. A major in the Departments of Animal Husbandry, Dairy, or Poultry Husbandry would require the least amount of extra course work on the part of the student.

AGRICULTURAL CURRICULUM

The curriculum in agriculture for the freshman and sophomore years is definitely outlined. It is required of all students seeking the B.S.A. degree. In the freshman year 54 quarter hours of credit are required in specific subjects. In the sophomore year 52 quarter hours of credit are required. These courses are listed below.

Specialization begins in the third or junior year. Before the close of the second year, each student should select the department in which he wishes to major. In some instances he must also select the special concentration for which he wishes to register. Then he should prepare a program of study to be approved by the head of the department in which the student intends to major.

Students in the College of Agriculture working for the degree of Bachelor of Science in Agriculture may major in the following departments: (1) *Agricultural Chemistry*; (2) *Agricultural Economics*; (3) *Agronomy*, including soils; (4) *Animal Husbandry*; (5) *Botany*; (6) *Dairy*; (7) *Food Technology*; (8) *General Agriculture*; (9) *Horticulture*; (10) *Plant Pathology*; (11) *Poultry Husbandry*; and (12) *Vocational Education*.

BACHELOR OF SCIENCE IN AGRICULTURE

FRESHMAN

	Hours
Agricultural Economics 4 (Farm Records & Computations)	5
Animal Husbandry 1 (Introductory Animal Husbandry)	3
Botany 21-22 (Elementary Botany)	10
Chemistry 21-22 (Inorganic)	10
Dairy 3 (Elements of Dairying)	3
English 2 x-y (Composition)	10
Forestry 2 (Farm Forestry)	3
Poultry Husbandry 60 (Poultry Biology and Production)	5
Military Science 1 or Air Science 5 (Military or Air Science and Tactics)....	5
Physical Education 1	0
Total.....	54

SOPHOMORE

	Hours
Agricultural Economics 10 (Rural Economics)	3
Agricultural Engineering 20 (Soil and Water Conservation)	3
Agricultural Engineering 61 (Agricultural Machines) or	
Agricultural Engineering 62 (Gas Engines and Tractors)	3
Agricultural Engineering 70 (Farm Building and Equipment) or	
Agricultural Engineering 280 (Farm Electrification)	3
Agronomy 1 (Field Crop Production)	5
Agronomy 10 (Principles of Soil Management)	5
English 6 (Oral and Written Composition)	5
Horticulture 1 (General Horticulture)	5
Mathematics 101 x (College Algebra) or	
Mathematics 101 y (Trigonometry)	5
Physics 20 (Physics Survey)	5
Political Science 1 (American Government)	5
Military Science 2 or Air Science 6 (Military or Air Science and Tactics)....	5
Physical Education 2	0
Total.....	52

JUNIOR AND SENIOR REQUIREMENTS

Major	20 Hours
In Agricultural Chemistry, Agricultural Economics, Agronomy, Animal Husbandry, Botany, Dairy, Food Technology, General Agriculture, Horticulture, Plant Pathology, Poultry, or Vocational Education.	
Science Selections	20 Hours
From the following: Bacteriology 350, Chemistry 346, Economics 312, Mathematics 356, Plant Pathology 353, Plant Pathology 358, Veterinary Medicine 200, Zoology 374.	
Minor 1	10 Hours
May be in any one department of the University.	
Minor 2	10 Hours
Must be in the College of Agriculture.	
Special Requirements—not more than	20 Hours
General Electives—not less than	10 Hours
Total Junior-Senior Requirements	90 Hours
Total Freshman-Sophomore Requirements	96 Hours*
Total Course Requirements	186 Hours*

REQUIRED ARTS AND SCIENCE COURSES

Approximately one-half the course requirements in the first two years are offered by the College of Agriculture; the remainder by the Armed Services Department, College of Education, School of Forestry, and the College of Arts and Sciences. Since the departments of Botany and Chemistry, which are units of the College of Arts and Sciences, are affiliated with the College of Agriculture, the courses offered by these departments, or those of interest to agricultural students, are listed in the bulletin of the College of Agriculture. Courses not so listed are as follows:

FRESHMAN

2 x-y. (ENGLISH) COMPOSITION. 10 hours (5 hours a quarter). *Miss Dumas and the Staff*.

First quarter: grammar, punctuation, mechanics, diction, and sentence structure. Second and third quarters: reading from English and American literature. Themes and parallel reading required throughout the course. Conferences on themes and reading.

2. FARM FORESTRY. 3 hours. *Mr. Grant and Mr. Weddell*.

A general course for agricultural and vocational agricultural students dealing with forestry from the farmer's standpoint.

1(5)a-b-c. MILITARY (AIR) SCIENCE AND TACTICS. First year basic course in Cavalry and Infantry (Air) consists of three hours of classwork and two hours of drill and outdoor instruction. The course includes military organization; hygiene and first aid; leadership, drill, and exercises of command; individual weapons and marksmanship; maps and aerial photographs; and national defense act and ROTC.

1-2. PHYSICAL EDUCATION. No hours credit. (Includes both freshman and sophomore courses).

Men. Three hours a week for six quarters. Stegeman Hall. *Physical Education Staff*.

The physical fitness and swimming test will be given each quarter. Activities include touch-football, soccer, speedball, volleyball, swimming, badminton, tennis, golf, horseback riding, basketball, tumbling, apparatus, softball, track and field, and others.

SOPHOMORE

6. (ENGLISH) ORAL AND WRITTEN COMPOSITION. *Miss Dumas and the Staff*. Required of students in agriculture, agricultural engineering, and distributive education.

*Exclusive of the required courses Military 1-2 or Air 5-6, and Physical Education 1-2.

MATHEMATICS. 101x or 101y.

101x. COLLEGE ALGEBRA. Prerequisite: At least two units of high school mathematics, including one year in algebra. *Mr. Fort and the Staff.*

Review of some elementary algebra, quadratic equations, binomial theorem, progressions, complex numbers, etc.

101y. TRIGONOMETRY. Prerequisite: same as 101x. *Mr. Fort and the Staff.* Trigonometry through the right triangle, functions of the sum and difference of two angles, the oblique triangle, and the spherical right triangle.

20. PHYSICS SURVEY. Not open to students who have credit for Physical Science 1. *The Staff.*

An elementary study of the fundamentals of physics with a study of some of the simpler applications of physics. The laboratory period of two hours a week will be devoted to measurements designed to give an introduction in laboratory methods.

1. (POLITICAL SCIENCE) AMERICAN GOVERNMENT. *Mr. Pound and the Staff.* An introductory course covering the essential facts of federal, state, and local governments in the United States. A satisfactory grade will exempt a student from the requirement of passing an examination on the Constitution of the United States and the Constitution of Georgia before graduation.

2(6)a-b-c. MILITARY (AIR) SCIENCE AND TACTICS. Second year basic course in Cavalry and Infantry (Air) consists of three hours of classroom work and two hours of drill and outdoor instruction. The course includes leadership, drill, and exercise of command; physical development methods; maps and aerial photographs; military administration; evolution of warfare; and military law and boards.

1-2 PHYSICAL EDUCATION. No hours credit. (See course outline under those listed for freshmen).

OPPORTUNITIES FOR SPECIALIZATION

Concentrations offered by the departments of the College of Agriculture and related departments in which agricultural students may major, together with brief statements concerning the opportunities available in each field of specialization, are shown under appropriate departmental headings.

The curriculum, given previously, outlines requirements for graduation and suggests departments in which students may specialize.

During the first six quarters each student should give careful consideration to the field of work for which he wishes to prepare. The department in which he intends majoring should be selected not later than the last quarter of his sophomore year. The student should then consult the head of that department about his program of study for his junior and senior years.

In order to acquaint students with the fields in which one may specialize, the opportunities in each, and the courses recommended by the several departments, the following *concentration programs* have been developed by the departments in which agricultural students may major during the junior and senior years. These are suggestive rather than definite requirements. The concentration for each student is an individual program, arranged in consultation with the members of the staff in the department in which the major is taken. In the main, however, the following programs, as presented by the several departments, include the courses which the majority of students will elect with the selection of the field of specialization.

Unless otherwise indicated, all courses are offered in the College of Agriculture buildings on the South Campus of the University.

The University reserves the right to withdraw any course for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses will meet five times a week and carry five hours' credit.

DEPARTMENT OF AGRICULTURAL ECONOMICS

(Conner Hall, South Campus)

The Department of Agricultural Economics offers courses designed to train young men for jobs in agriculture or closely allied vocations. The principal objectives of this type of training are:

(1) To prepare students for positions with the Federal and State departments of agriculture, and in the teaching, research, and agricultural extension divisions of land-grant colleges.

Those positions require specialized preparation in agricultural economics, agricultural credit, farm finance, land economics, agricultural adjustment, marketing farm products, farm management, and cooperation in agriculture.

(2) To prepare students for entering business with private corporations in positions that require fundamental training in marketing, land use, farm credit, and other similar services connected with agriculture.

(3) To prepare students for graduate work in agricultural economics and marketing farm products.

Currently there is a strong demand for agricultural economists with post-graduate training. An expanding program of research in agricultural economics in the land-grant colleges and in the United States Department of Agriculture has opened more positions for such agricultural economists than could be filled. This has also increased the demand for teachers of agricultural economics. This demand has been especially strong for agricultural economists with graduate work in marketing.

The following are examples of concentrations in agricultural economics, agricultural marketing, farm finance and agricultural prices, and farm organization and management. These concentrations have been prepared in suggested outline to assist students in appraising their vocational potentialities in the field of agricultural economics; and to aid students who have selected agricultural economics as their major subject.

A student exploring the subject of agricultural economics is advised to study these suggested concentrations and to read the descriptions of courses that may be included in his program. He should then consult the Head of the Department of Agricultural Economics.

Each student must present a program of study to the professor designated by the Head of the Department of Agricultural Economics. This professor will be the student's adviser. A program of study in agricultural economics must be prepared and submitted during the last quarter of a student's sophomore year unless he is a transfer student, when it must be submitted during his first quarter's attendance.

CONCENTRATION IN AGRICULTURAL ECONOMICS

JUNIOR AND SENIOR YEARS

This concentration is suggested for those who desire a comprehensive knowledge and understanding of economics applied to agriculture and those who later on may formulate a more specialized program of study.
Major:

Agricultural Economics 301 (FARM ORGANIZATION AND MANAGEMENT), Agricultural Economics 304 (MARKETING FARM PRODUCTS), Agricultural Economics 351 (AGRICULTURAL CREDIT), Agricultural Economics 364 (LAND ECONOMICS) 20 Hours

Science selections same for all concentrations from the following:
Bacteriology 350 (INTRODUCTORY BACTERIOLOGY), Plant Pathology 353 (ELEMENTARY PLANT PATHOLOGY), Veterinary Medicine 200 (COMMON DISEASES OF FARM ANIMALS), Plant Pathology 358 (PRINCIPLES OF BREEDING), Mathematics 356 (STATISTICS),

Zoology 374 (ECONOMIC ENTOMOLOGY), Economics 312 (ELEMENTARY ECONOMIC STATISTICS), Chemistry 346 (ELEMENTS OF ORGANIC CHEMISTRY)	20 Hours
First Minor:	
May be in any department of the University	10 Hours
Second Minor:	
Must be in one department of the College of Agriculture	10 Hours
General Electives	10 Hours
Special Electives:	
A selection of courses from the group of Special Electives. See list following details of concentrations in Agricultural Economics. Not more than six quarter hours in any one department	20 Hours

CONCENTRATION IN AGRICULTURAL MARKETING

JUNIOR AND SENIOR YEARS

This concentration is recommended for those who intend to engage in marketing farm products or obtain professional positions in agricultural marketing.

Major:

Agricultural Economics 304 (MARKETING FARM PRODUCTS), Agricultural Economics 400 (COOPERATION IN AGRICULTURE), Agricultural Economics 403 (MARKETING LIVESTOCK AND LIVESTOCK PRODUCTS), Agricultural Economics 404 (MARKETING FIELD CROPS AND HORTICULTURAL PRODUCTS)	20 Hours
Science Selections (See Agricultural Economics Concentration)	20 Hours
First Minor:	
May be in any one department in the University	10 Hours
Second Minor:	
Must be in one department of College of Agriculture	10 Hours
General Electives	10 Hours
Special Electives:	
A selection of courses from the group of Special Electives. See list following details of concentrations in Agricultural Economics. Not more than six quarter hours in any one department	20 Hours

NOTE: A student who selects this concentration should include Agricultural Economics 351 (AGRICULTURAL CREDIT) as an elective or it should be included in a Second Minor, unless after consultation with major professor it is decided otherwise.

A student who intends to do graduate work should include Economics 312 (ELEMENTARY ECONOMIC STATISTICS). Agricultural Economics 458 (PRINCIPLES OF AGRICULTURAL ECONOMICS) and 467 (AGRICULTURAL PRICES) are recommended as electives or as a Second Minor.

CONCENTRATION IN FARM FINANCE AND AGRICULTURAL PRICES

JUNIOR AND SENIOR YEARS

This concentration is suggested for those who intend to work with banks, finance departments of corporations and cooperative associations and as professional farm financial workers.

Major:

Agricultural Economics 301 (FARM ORGANIZATION AND MANAGEMENT), Agricultural Economics 304 (MARKETING FARM PRO-

ducts), Agricultural Economics 351 (AGRICULTURAL CREDIT), Agricultural Economics 467 (AGRICULTURAL PRICES)	20 Hours
Science Selections (See Agricultural Economics Concentration).....	20 Hours
First Minor:	
May be in any one department in the University.....	10 Hours
Second Minor:	
Must be in one department of the College of Agriculture.....	10 Hours
General Electives	10 Hours
Special Electives:	
A selection of courses from the group of Special Electives. See list following details of concentrations in Agricultural Eco- nomics. Not more than six quarter hours in any one depart- ment.	20 Hours

CONCENTRATION IN FARM MANAGEMENT

JUNIOR AND SENIOR YEARS

This concentration is recommended for students who expect to become farm operators, farm managers, land appraisers or do other work involving plans for organization and management of farms.

Major:

Agricultural Economics 301 (FARM ORGANIZATION AND MAN- AGEMENT), Agricultural Economics 402 (ADVANCED FARM OR- GANIZATION AND MANAGEMENT), Agricultural Economics 364 (LAND ECONOMICS), Agricultural Economics 351 (AGRICUL- TURAL CREDIT)	20 Hours
Science Selections (See Agricultural Economics Concentration)....	20 Hours
First Minor:	
May be from any department in the University.	10 Hours
Second Minor:	
Must be from one department of the College of Agriculture.....	10 Hours
General Electives	10 Hours
Special Electives:	
A selection of courses from the group of Special Electives. Not more than six quarter hours in any one department.....	20 Hours

NOTE: *It is recommended that the student in this concentration include Animal Husbandry 371 (LIVESTOCK PRODUCTION), 373 (FEEDS AND FEEDING); Agronomy 458 (LAND CLASSIFICATION, LAND ZONING, AND LAND USE PROBLEMS); Business Administration 370 (BUSINESS LAW); and Agricultural Economics 400 (COOPERATION IN AGRICULTURE) or 458 (PRINCIPLES OF AGRICULTURAL ECONOMICS) unless, after consultation with his major professor, it is advisable to do otherwise.*

GROUP OF SPECIAL ELECTIVES

- Agricultural Economics 400 (COOPERATION IN AGRICULTURE), 401 (FARMER MOVEMENTS), 470 (CURRENT AGRICULTURAL PROBLEMS), 458 (PRINCIPLES OF AGRICULTURAL ECONOMICS), 467 (AGRICULTURAL PRICES), 469 (FARM FINANCE).
- Agricultural Engineering 61 (AGRICULTURAL MACHINES), 62 (GAS ENGINES AND TRACTORS), 70 (FARM BUILDINGS AND EQUIPMENT), 203 (FARM SHOP), 205 (ELEMENTS OF REFRIGERATION), 280 (FARM ELECTRIFICATION).
- Agronomy 300 (COMMERCIAL COTTON CLASSING), 320 (SOUTHERN FIELD CROPS), 361 (SOIL CLASSIFICATION AND SOIL SURVEY), 355 (ADVANCED SOIL MANAGEMENT), 356 (FERTILIZERS).

- Animal Husbandry 350 (TYPES, BREEDS, CLASSES AND GRADES OF LIVESTOCK), 360 (BEEF CATTLE PRODUCTION), 361 (SWINE PRODUCTION), 371 (LIVESTOCK PRODUCTION), 373 (FEEDS AND FEEDING).
- Dairy 379 (DAIRY CATTLE JUDGING, FITTING, AND SHOWING), 381 (DAIRY FARM OPERATIONS), 385 (DAIRY PRODUCTS, JUDGING, AND GRADING), 394 (MARKET MILK), 395 (DAIRY PLANT MANAGEMENT).
- Food Technology 363 (FOOD PRESERVATION), 364 (FREEZER LOCKER OPERATIONS AND MANAGEMENT), 365 (MEAT CUTTING), 366 (FREEZING FRUITS AND VEGETABLES).
- Horticulture 309 (SYSTEMATIC POMOLOGY), 353 (SPRAYS AND SPRAYING), 362 (NURSERY PRODUCTION AND MANAGEMENT).
- Business Administration 311 (INTRODUCTORY COST ACCOUNTING), 370 (BUSINESS LAW).
- Economics 326 (BANKING), 333 (AMERICAN ECONOMIC HISTORY), 358 (WORLD RESOURCES AND INDUSTRIES), 361 (MARKETING PROBLEMS), 360 (THE PRINCIPLES OF MARKETING).
- Plant Pathology 356 (DISEASES OF FIELD CROPS), 357 (DISEASES OF HORTICULTURAL CROPS).
- Poultry 371 (COMMERCIAL POULTRY MANAGEMENT), 372 (POULTRY BREEDING), 373 (POULTRY DISEASES AND PARASITES).

No course from this group for which the student has credit elsewhere in his program may be selected as a Special Elective.

AGRICULTURAL ECONOMICS

4. FARM RECORDS AND COMPUTATIONS. Five lectures or recitations. *The Staff*.

Application of economic, statistical and business principles to keeping, analyzing and interpreting farm records and plans. Exercises and course content directly related to the characteristics of the different farm enterprises with respect to values of items and costs and returns. To serve as a foundation for techniques in computations and records for agricultural production.

10. RURAL ECONOMICS. 3 hours. Three lectures or recitations. *The Staff*.

Introduction to economics of farming, student orientation to entire field of agricultural economics, application of economics to farm problems.

301. FARM ORGANIZATION AND MANAGEMENT. Three lectures and two laboratory periods. Prerequisites: Agricultural Economics 4 and 10. *Mr. Proctor* or *Mr. Saunders*.

A scientific approach to the study of individual farm programs for the purpose of determining methods to be used for increasing farm income.

304. MARKETING FARM PRODUCTS. Five lectures or recitations. Prerequisite: Agricultural Economics 10. *Mr. Rowan* or *Mr. Saunders*.

A general course in marketing farm products describing and analyzing marketing functions and market agencies; illustrated by visits to marketing concerns. General purpose to enable students to have a comprehensive understanding of the principles of agricultural marketing.

351. AGRICULTURAL CREDIT. Five lectures or recitations. Prerequisite: Agricultural Economics 10. *The Staff*.

Principles of finance applied to farm credit organizations. Practices and principles of financing individual farms.

364. LAND ECONOMICS. Three lectures and two laboratory periods. Prerequisite: Agricultural Economics 10. *Mr. Proctor*.

An appraisal of the agricultural use of land in the United States with special attention to Georgia land. Designed to meet current needs for training in application of economics to use of land by farmers under changing political and social conditions.

375. AGRICULTURAL EXTENSION ORGANIZATION AND PROCEDURES. Five lectures, recitations or visits to demonstration Extension meetings. Prerequisite: Senior standing. *The Staff*.

Philosophy, procedures, and practices of Extension Service work in agriculture

and home economics; organization, administration, and financing; relationship with cooperating organizations. Students to observe and participate in meetings and demonstrations arranged by Extension workers.

400. COOPERATION IN AGRICULTURE. Five lectures. Prerequisites: Agricultural Economics 304, 351, or equivalent. *Mr. Rowan.*

A study of cooperative marketing associations, their organization, and practices. A discussion of philosophy and economics of cooperation in agriculture.

401. FARMER MOVEMENTS. Prerequisites: Agricultural Economics 4 and 10. *Mr. Proctor.*

History of agricultural organizations; study of selected rural agencies and organizations; and a study of the relationship between organizations of rural people and their economic well being.

402. ADVANCED FARM ORGANIZATION AND MANAGEMENT. Three lectures and two laboratory periods. Prerequisites: Agricultural Economics 301, 364, or equivalent. *Mr. Proctor.*

Continuation of Agricultural Economics 301 with special exercises in appraising and analyzing economic facts of individual farms and making adjustments in the use of land, labor, and capital with changing farm programs.

403. MARKETING LIVESTOCK AND LIVESTOCK PRODUCTS. Five lectures. Prerequisites: Agricultural Economics 10, 304, 351, 467, or equivalent. *Mr. Rowan.*

An economic study of livestock marketing with emphasis on channels of trade and methods of distribution, prices, standardization, transportation, regulation and supervision and the way in which marketing functions and agencies implement the marketing of livestock.

404. MARKETING FIELD CROPS AND HORTICULTURAL PRODUCTS. Five lectures. Prerequisites: Agricultural Economics 10, 304, 351, 467, or equivalent. *Mr. Rowan.*

An economic study of marketing of field and horticultural crops from the commodity approach.

458. PRINCIPLES OF AGRICULTURAL ECONOMICS. Five lectures or recitations. Prerequisites: Agricultural Economics 10 and two senior division courses in Agricultural Economics. *Mr. Proctor.*

Causes and effects of agricultural surpluses, factors of production, private and governmental control policies, and comparative agricultural enterprises. Application of economic theories and principles to agricultural activities.

467. AGRICULTURAL PRICES. Five lectures or recitations. Prerequisites: Agricultural Economics 10 and two senior division courses in Agricultural Economics. *Mr. Rowan.*

Preparation and use of index numbers and other means for analyzing the behavior of farm prices, price theories applied to agriculture, farm price forecasting, and outlook.

469. FARM FINANCE. 3 hours. Three lectures or recitations. Prerequisites: Agricultural Economics 10 and two senior division courses in Agricultural Economics. *Mr. Rowan.*

Principles and practices of agricultural prices, credit and ownership. Designed especially for students other than majors in Agricultural Economics.

470. CURRENT AGRICULTURAL PROBLEMS. 3 hours. Three lectures or recitations. Prerequisites: Agricultural Economics 301, 304, or equivalent. *Mr. Proctor.*

A study of current agricultural problems, factors creating current agricultural situations, and methods of analyzing current situations and solving current farm problems.

GRADUATE COURSES

808. AGRICULTURAL ECONOMIC THEORIES AND PROGRAMS. Five lectures. Prerequisite: Three courses including Agricultural Economics 458. *Mr. Proctor.*

Review and analysis of economic theories and principles. Fundamentals of analyzing specific cause and effect problems in agriculture. (Given only upon sufficient demand and approval of professor.)

816. FARM ORGANIZATION ANALYSIS. 3 hours. One lecture and two laboratory periods. Prerequisites: Agricultural Economics 402 and 364 or equivalent.

lent, plus elementary courses in soils and crops and livestock production. *Mr. Proctor.*

Assemble, appraise, and analyze economic data of individual farms; determine the influence of combinations of enterprises; and analyze the individual input factors in producing crops and livestock on such farms. (Given only upon sufficient demand and approval of professor.)

817. RESEARCH IN FARM ORGANIZATION SUBSTITUTION. 3 hours. Three laboratory periods. Prerequisites: Agricultural Economics 402 and 470 or equivalent, plus elementary courses in soils and crops and livestock production. *Mr. Proctor.*

Substitution analysis and budget research in farm organization and management. Make deductions from farm economic data of individual farms and farm plans. (Given only upon sufficient demand and approval of professor.)

821. PUBLIC PROBLEMS OF AGRICULTURE. Five laboratory periods. Prerequisites: Agricultural Economics 301 and 458. *Mr. Proctor* or *Mr. Rowan.*

A group discussion of agricultural problems that involve governmental activities. (Given only upon sufficient demand and approval of professor.)

825. ECONOMICS OF USE OF AGRICULTURAL LANDS. Prerequisites: Agricultural Economics 301, 364, 458 or equivalent. *Mr. Proctor.*

A study of principles governing tenure and the use of farm lands; land use, tenure, and taxation policies in relation to our rural economy; and patterns of land use.

830-831. AGRICULTURAL ECONOMICS RESEARCH. 5 hours each. Prerequisite: Thirty or more credit hours in Agricultural Economics or related fields at the senior or graduate level. *Mr. Proctor.*

Individual research in problems of agricultural economics conducted by students under the direction and guidance of the staff of the Department of Agricultural Economics.

930. THESIS RESEARCH. 5 to 50 hours.

DEPARTMENT OF AGRONOMY

(Conner Hall, South Campus)

The courses offered in the Agronomy Department are designed for students interested in general farm crop production, soil management practices, the various fields of specialization in agronomic work, and electives for majors in other fields of specialization.

Technical training is offered for those who anticipate work in research, teaching, extension work in crops or soils, seed specialization, cotton specialization, soil conservation, soil survey, or fertilizer industry. Provision is also made for those who plan to further specialize in graduate study.

Four concentrations are offered with electives in related fields.

I. CONCENTRATION IN GENERAL AGRONOMY

This concentration is designed for students who plan to enter the fields of farm management, farm operation, technical planning, or agronomic work in soil-conserving programs. This concentration is not designed for those who plan to do graduate work.

MAJOR: Agronomy 320, Agronomy 321, Agronomy 355, Agronomy 356	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353, Plant Pathology 358, Zoology 374	20 Hours
FIRST MINOR: Animal Husbandry 373, Chemistry 346	10 Hours
SECOND MINOR: Agronomy 332, Agronomy 424	10 Hours
SPECIAL REQUIREMENTS: Agronomy 458, Botany 380, Plant Pathology 401	15 Hours
GENERAL ELECTIVES	15 Hours

II. CONCENTRATION IN AGRONOMY AND PLANT SCIENCE

This concentration is offered for those who wish to enter the fields of crop production, agronomic research, teaching, extension work in the fields of farm crops, and graduate work in these fields.

MAJOR: Agronomy 320, Agronomy 321, Agronomy 356, Agronomy 423	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353, Plant Pathology 358, Zoology 374	20 Hours
FIRST MINOR: Botany 305, Botany 380	10 Hours
SECOND MINOR: Plant Pathology 356, Plant Pathology 401	10 Hours
SPECIAL REQUIREMENTS: Agronomy 355, Botany 323, Botany 375, Chemistry 346	20 Hours
ELECTIVES	10 Hours

III. CONCENTRATION IN SOIL CHEMISTRY, SOIL PHYSICS AND SOIL FERTILITY

This concentration is designed primarily for students who are planning to be teachers, research workers, soil technicians, soil surveyors, or other investigational workers in soil chemistry, soil physics, and soil fertility, as well as for those who expect to do graduate work in these fields.

MAJOR: Agronomy 353, Agronomy 355, Agronomy 356, Agronomy 459	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Chemistry 346, Plant Pathology 353, Zoology 374	20 Hours
FIRST MINOR: Chemistry 380, Chemistry 460	10 Hours
SECOND MINOR: Agronomy 321, Agronomy 460	10 Hours
SPECIAL REQUIREMENTS: Botany 380, Chemistry 23, Physics 28	15 Hours
ELECTIVES	15 Hours

IV. CONCENTRATION IN SOIL CONSERVATION

This concentration is designed especially for students interested in soil conservation, soil improvement, farm program planning, and soil utilization, and is not designed for those who plan to do graduate work. This concentration is given in cooperation with the Department of Agricultural Engineering. Trigonometry is a prerequisite for this concentration.

MAJOR: Agronomy 321, Agronomy 353, Agronomy 356, Agronomy 458	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Chemistry 346, Plant Pathology 353, Zoology 374	20 Hours
FIRST MINOR: Agricultural Engineering 11, Agricultural Engineering 224, Agricultural Engineering 226	11 Hours
SECOND MINOR: Agricultural Economics 301, Animal Husbandry 373	10 Hours
SPECIAL REQUIREMENTS: Agronomy 355, Botany 375, Botany 380	15 Hours
ELECTIVES:	14 Hours

AGRONOMY

1. FIELD CROP PRODUCTION. Prerequisite: Botany 21. *Mr. Brown* and *Mr. Miller*.

Adaptation, culture, improvement, harvesting, and uses of the more important crops, with special reference to the major crops of Georgia. Laboratory exercises include seed studies, introduction to commercial grading of grain, hay, cotton, and tobacco, and the identification, adaptation, and use of important legumes and grasses.

7. FOREST SOILS. Prerequisites: Chemistry 21-22. *Mr. Morris* and *Mr. Stelly*.

Origin, formation, and classification of soils and the physical, chemical, and biological properties of soils with emphasis on forest conditions.

10. PRINCIPLES OF SOILS. Prerequisites: Chemistry 21-22. *Mr. Morris* and *Mr. Stelly*.

Soil formation; physical, chemical, and biological properties of soils; effects of commercial fertilizers, lime, organic matter, and soil management practices on soil fertility.

300. COMMERCIAL COTTON CLASSING. (Good eyesight and color perception necessary.)

Cotton grades and staples according to Universal Standards for American Upland Cotton. Practices consist of classing and stapling several thousand samples of cotton.

320. SOUTHERN FIELD CROPS. Prerequisites: Agronomy 1 and Agronomy 10. *Mr. Brown*.

The three major cash crops in Georgia, cotton, tobacco, and peanuts are studied. Laboratory exercises deal with botanical and morphological characteristics of the crops, and provide training in the fundamentals of cotton classing and tobacco and peanut grading.

321. FORAGE AND PASTURE CROPS. Prerequisites: Agronomy 1 and 10. *Mr. Brown*.

Requirements and adaptations of forage crops. Special attention is given to combinations that will furnish ample forage for southern conditions. Establishment and management of pastures involving adapted forage crops. Grassland agriculture as a means for soil conservation and improvement will be discussed. Laboratory exercises deal with the botanical and morphological characteristics of the principal forage plants as well as forage seed identification. Field trips will be taken to observe forage crops under field conditions. Grading hay according to U. S. standards will also be taken up in the laboratory.

322. CEREAL PRODUCTION. Prerequisites: Agronomy 1 and 10. *Mr. Brown*.

Classification improvement, distribution, culture, and uses of small grains and corn. Laboratory exercises deal with grain structure, identification of varieties, and grain grading by U. S. Standards.

353. SOIL FORMATION AND CLASSIFICATION. Prerequisite: Agronomy 10 or equivalent. *Mr. Collins*.

Soil formation, classification, and soil survey, including preparation of soil survey maps and reports.

355. ADVANCED SOIL MANAGEMENT. Prerequisites: Agronomy 1 and 10. *Mr. Collins*.

Occurrence and properties of predominant soils and management practices to maintain fertility, prevent erosion, and increase crop production.

356. FERTILIZERS. Prerequisites: Agronomy 1 and 10. *Mr. Collins* and *Mr. Morris*.

Sources and uses of fertilizer materials, soil conditions affecting uses of fertilizers, and presentation of related experimental data.

403. CROP IMPROVEMENT. Prerequisites: Agronomy 320 or 321, Plant Pathology 358, or equivalent.

Various factors contributing to the improvement of field crops. Seed selection and experimental methods in crop improvement receive special emphasis.

423. PRINCIPLES OF EXPERIMENTAL METHODS. Prerequisites: Agronomy 321 and 356, or equivalent.

Principles and practices in plant and animal research with special reference to the design and mechanical procedure with experimental plots. The applications of statistical methods to laboratory and field results are emphasized.

424. CROP PLANTS, WEEDS AND SEEDS. Prerequisites: Agronomy 321 and 355 or equivalent. *Mr. Brown.*

Identification of crop plants and seed, seed certification, seed analysis, and germination. Identification of weeds in seed and plant form. Use of chemicals in weed control and the effects on crop plants. Review of recent literature in the field.

458. LAND USE PROBLEMS. Prerequisites: Agronomy 321 and 356, or equivalent. *Mr. Morris.*

Fundamentals of classifying and mapping land, working out land use problems on individual farms, and adjusting land use practices.

459. SOIL FERTILITY. Prerequisites: Agronomy 355 and 356 or equivalent. *Mr. Stelly, Mr. Giddens, and Mr. Morris.*

Soil conditions affecting availability of plant nutrients, methods of determining soil fertility and insufficiency of plant nutrients in soils, and interpretation of chemical and biological measurements as related to fertility maintenance and good soil management.

460. SOIL PHYSICS. Prerequisites: Agronomy 353 and Chemistry 380, or equivalent. *Mr. Stelly.*

Physical properties, moisture relations, and methods of physical analysis of soils.

GRADUATE COURSES

801. CROP MANAGEMENT. Prerequisite: Agronomy 423 or equivalent.

The application of experimental data as obtained from literature reviews and discussions to the solution of practical crop management problems.

825. SPECIAL PROBLEMS IN AGRONOMY. Prerequisite: At least one course in Agronomy with catalogue number 800 or above. *Mr. Brown, Mr. Collins, Mr. Giddens, Mr. Morris, and Mr. Stelly.*

The planning and completion of short time agronomic problems, other than thesis investigations, conducted in the library, field, greenhouse, or laboratory.

827. BIOMETRY. Prerequisite: Agronomy 423 or equivalent.

A study of the elementary statistics; chi square; design of experiments; analysis of variance; design and analysis of complex experiments. This course is designed to meet the needs of students in either plant or animal sciences for Master of Science degree.

850. FERTILIZATION AND PLANT REACTIONS TO FERTILIZATION. Prerequisites: Agronomy 321 and 356, or equivalent. *Mr. Collins.*

Sources, manufacture, and uses of commercial fertilizers, and the principles involved in the application of fertilizers to crops. Fertilizer deficiency symptoms and means of correcting deficiencies for various type plants are stressed.

852. ADVANCED SOIL FERTILITY. Prerequisites: Chemistry 380 and Agronomy 459, or equivalent. *Mr. Morris.*

Physical, chemical, and bacteriological aspects of soil fertility as related to plant growth. Laboratory work consists of various chemical analyses of soils and plants.

853. METHODOLOGY IN SOIL CHEMISTRY. Prerequisites: Chemistry 380 and Agronomy 459, or equivalent. *Mr. Stelly.*

Special treatment of methods used in soil and plant analyses. Emphasis is placed on chemical laboratory methods and equipment used in soil investigations; however, physical and biological methods are also presented. Interpretation of experimental data is stressed.

854. ADVANCED SOIL CLASSIFICATION. Prerequisites: Agronomy 353 and Chemistry 380, or equivalent. *Mr. Stelly.*

Historical geology, weathering of rocks and minerals, factors and processes of soil formation, and various concepts of soil classification. The formation, description, and classification of the soils of the United States and of Georgia are stressed.

855. SPECIAL TOPICS IN PEDOLOGY. Prerequisite: Agronomy 854. *Mr. Stelly.*

Discussion of assigned readings and reports on special problems in pedology. Actual field training in soil surveying under the supervision of experienced soil surveyors will be arranged whenever possible.

930. THESIS RESEARCH IN AGRONOMY. 5 to 50 hours.

Credits in this course must be in addition to the 40 hours required for the M.S.A. degree. Prerequisite requirements depend upon research problem and consent of major professor. Available by arrangement any quarter to any graduate student majoring in agronomy who is a candidate for the Master of Science in Agriculture degree.

DEPARTMENT OF ANIMAL HUSBANDRY

(Hardman Hall, South Campus)

The courses offered by the Department of Animal Husbandry are designed to give students basic training in the production of beef cattle, sheep, swine, and horses and mules. While most of the courses offered deal with the more practical phases of selection, breeding, feeding, and/or management, several courses of a technical nature are offered for those students who desire to enter some specialized type of work or who plan to follow a program of graduate study.

The courses of the Department are especially planned for students who expect to become livestock farmers, Animal Husbandry specialists, county agents, vocational agricultural teachers, college teachers, or experiment station workers. They are also suitable for students who intend to enter positions with breed associations, feed manufacturers, packing houses, livestock commission firms, livestock equipment and supply companies, or livestock journals.

The following program of study is recommended for students desiring to major in Animal Husbandry.

CONCENTRATION IN ANIMAL HUSBANDRY

MAJOR: Animal Husbandry 350, 360, 361, 372, 373	23 Hours
SCIENCE SELECTIONS: Bacteriology 350, Chemistry 346, Plant Pathology 358, and Zoology 347	20 Hours
FIRST MINOR: Agronomy 321 and 356.	10 Hours
SECOND MINOR: May be selected by student in any department of the University, subject to the approval of the Head of the Department.	10 Hours
SPECIAL REQUIREMENTS: Food Technology 365 or 418, and Veterinary Hygiene 200.	10 Hours
GENERAL ELECTIVES: Subject to the approval of the Head of the Department	17 Hours

ANIMAL HUSBANDRY

1. INTRODUCTORY ANIMAL HUSBANDRY. 3 hours. *Mr. Carmon.*

A study of basic facts, principles, and terminology pertaining to beef cattle, sheep, swine, and horses and mules.

350. TYPES, BREEDS, CLASSES, AND GRADES OF LIVESTOCK. 3 hours. Prerequisite: Animal Husbandry 1. *Mr. Carmon.*

A study of the characteristics of the different types, breeds, classes, and grades of livestock.

360. BEEF CATTLE PRODUCTION. Prerequisite: Animal Husbandry 373. *Mr. Thomason.*

A study of the breeding, feeding, and management of beef cattle.

361. SWINE PRODUCTION. Prerequisite: Animal Husbandry 373. *Mr. Dyer.*

A study of the breeding, feeding, and management of swine.

366. LIVESTOCK JUDGING. 3 hours. Prerequisite: Animal Husbandry 350 or permission of the instructor. *Mr. Carmon.*

A course which deals with the selection of livestock for the breeding herd and for slaughter. From the students in this course will be chosen the team to represent the University in the Annual Spring Intercollegiate Live Stock Judging Contests.

371. LIVESTOCK PRODUCTION. Prerequisite: Animal Husbandry 373 recommended. *Mr. Thomason.*

A study of the fundamental principles and practices involved in the profitable pro-

duction of various classes of farm animals. (Not recommended for Animal Husbandry majors. Students taking this course will not receive credit in Animal Husbandry 360, 361, 363 and 364.)

372. BREEDING AND IMPROVEMENT OF FARM ANIMALS. Prerequisites: Animal Husbandry 1 and Plant Pathology 358. *Mr. Warren* and *Mr. Carmon*.

A study of the basic principles of genetics and reproduction as related to the breeding and improvement of farm animals.

373. FEEDS AND FEEDING. Prerequisites: Animal Husbandry 1 and Chemistry 22. *The Staff*.

A study of the basic principles of animal nutrition as related to the feeding of all classes of farm livestock.

376. ADVANCED LIVESTOCK JUDGING. 3 hours. Prerequisite: Animal Husbandry 366 or permission of instructor. *Mr. Carmon*.

A continuation of Animal Husbandry 366. From the students in this course will be chosen the team to represent the University in the Annual Fall Intercollegiate Live Stock Judging Contests.

402. ADVANCED ANIMAL NUTRITION. Prerequisites: Animal Husbandry 373, 360 or 361, Chemistry 346, or equivalent. *Mr. Cullison* and *Mr. Dyer*.

A study of the chemical composition and the physical and chemical properties of feeds and feed nutrients; the digestion, absorption and metabolism of the nutrients; factors affecting nutrient utilization; the functions of the different nutrients; the nutrient requirements of farm animals; the effects of nutrient deficiencies and how to correct and prevent them.

403. ADVANCED ANIMAL BREEDING. Prerequisites: Animal Husbandry 372, Chemistry 346 or equivalent. *Mr. Warren*.

A study of the physiology of reproduction, fertility, heredity, artificial insemination, and other advanced aspects of animal breeding.

GRADUATE COURSES

801-802. SPECIAL PROBLEMS IN ANIMAL HUSBANDRY. 5 hours each. Prerequisites: Animal Husbandry 402 or 403 and permission of instructor. *Mr. Cullison*, *Mr. Dyer*, and *Mr. Warren*.

Library and laboratory problems dealing with different phases of livestock production.

805. EXPERIMENTAL METHODS IN ANIMAL NUTRITION. Prerequisite: Animal Husbandry 402 or equivalent. *Mr. Cullison* and *Mr. Dyer*.

A study of the experimental methods used in animal nutrition research; the nature and significance of chemical determinations, feeding trials, digestion trials, and metabolism studies.

930. THESIS. 5 to 20 hours. Prerequisites: Two or more graduate courses in animal husbandry. Open only to Animal Husbandry majors. *Mr. Cullison*, *Mr. Dyer*, and *Mr. Warren*.

The carrying out of laboratory and library research and the development of a thesis bearing on the subject under investigation.

DAIRY DEPARTMENT

(Dairy Building, South Campus)

The dairy industry in Georgia has been steadily increasing in importance for a number of years. With this growth there has also been an increase in the demand for trained personnel in the various phases of the dairy industry.

With the rapid increase in the industrial development within the state, commercial dairying has become of much greater importance. Sales of fluid milk are nearly three times that of ten years ago. For the most part, however, the milk for butter, cheese, evaporated milk, powder, and similar products is imported from other states. During recent years much effort has been expended toward developing a greater supply of manufacturing grade milk. Markets are already being developed for this type of milk. This development of the dairy industry in Georgia has greatly increased the demand for young men trained in this field.

The Dairy Building provides adequate facilities for teaching all phases

of manufacturing, processing, and distributing dairy products. One wing of the building houses a dairy manufacturing laboratory which is used for training students in the operation of milk processing equipment, the processing of market milk, and the manufacture of ice cream, butter, cheese, and condensed milk.

The dairy farm is provided with modern barns of unusual beauty. A practical program of feed production and herd management is conducted for the benefit of students in the University, research, and demonstration to visitors. A herd of purebred dairy cattle representing the three major breeds is maintained on the college farm.

SPECIAL STUDENTS. Frequently, requests are received relative to short periods of training on a non-degree basis. The laboratories of the department are available at all times for informal training under the supervision of the person in charge of the laboratory.

It should also be pointed out that any resident of the state may, under certain circumstances, register in the University as a special student and take any courses regularly taught. The Dairy Department can usually arrange satisfactory programs of study to fit the needs of the individual. These will range from three months (one quarter) to two years (six quarters).

CONCENTRATIONS. For students regularly enrolled in the University, the Dairy Department offers two concentrations. One of these is in the field of dairy production and the other is in the field of dairy manufacturing. The suggested programs given here may be altered to suit the needs of the individual student.

CONCENTRATION IN DAIRY PRODUCTION

MAJOR: Dairy 390, Dairy 379, Dairy 392, Dairy 394	20 Hours
AGRICULTURAL SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358, Chemistry 346, Veterinary Hygiene 200	20 Hours
FIRST MINOR: Animal Husbandry 371 and 373	10 Hours
SECOND MINOR: To be approved by Head of Department	10 Hours
SPECIAL REQUIREMENTS: Not more than	20 Hours
To be approved by Head of the Department.	
GENERAL ELECTIVES: Not less than	10 Hours
To be approved by Head of the Department.	

CONCENTRATION IN DAIRY MANUFACTURING

MAJOR: Dairy 350, Dairy 394, Dairy 395, Dairy 399	20 Hours
AGRICULTURAL SCIENCE SELECTIONS: Bacteriology 350, Chemistry 346, Plant Pathology 358, Veterinary Hygiene 200	20 Hours
FIRST MINOR: Dairy 389 and Dairy 395	10 Hours
SECOND MINOR: To be approved by Head of Department	10 Hours
SPECIAL REQUIREMENTS: Not more than	20 Hours
To be approved by Head of the Department.	
GENERAL ELECTIVES: Not less than	10 Hours
To be approved by Head of the Department.	

DAIRY

3. ELEMENTS OF DAIRYING. 3 hours. *Mr. Henderson and the Staff.*

An elementary course in dairying, dealing with the following general subjects: Relation of dairying to agriculture; application of the Babcock test to farm practices; care and handling of milk and cream on the farm; milk secretion composition and food value of milk.

301-302-303. DAIRY SEMINAR. 1 hour a week each quarter. *The Staff.*

Topical discussion of present problems and scientific work in dairying.

350. DAIRY CHEMISTRY. Prerequisite: Chemistry 346. *Mr. Sheuring.*

Composition and properties of milk and its constituents, chemistry of dairy processes, and routine chemical tests for dairy plants and the food value of milk and its products.

379. DAIRY CATTLE ECONOMICS AND SELECTION. Prerequisites: Dairy 390 and 392, or equivalent. *Mr. Deal and Mr. Morrison.*

Study of successful dairy farm economics as based on field trips to practical operations. Application of theory to practice. Selection of cattle based on phenotype. Preparing animals for sales and shows.

380. ADVANCED DAIRY CATTLE JUDGING. 3 hours. Prerequisite: Consent of the instructor. *Mr. Morrison.*

A course especially planned to offer instruction in the judging of dairy cattle according to type.

381. DAIRY FARM OPERATIONS. 3 hours. *Mr. Deal.*

Practical experience in the feeding, management, and breeding of cattle on the college dairy farm.

385. DAIRY PRODUCTS, JUDGING AND GRADING. 3 hours. *Mr. Bennett and Mr. Sheuring.*

Scoring and grading of milk, butter, cheese, and ice cream.

388. MILK SANITATION. 3 hours. *Mr. Bennett and Mr. Henderson.*

A course especially designed for students interested in employment in milk inspection work. Training is given in interpretation of the requirements of the U. S. Public Health Service Milk Ordinance Code, inspection of dairy farms and pasteurization plants, bookkeeping in accordance with the ordinances, state dairy laws and methods used in conducting a milk sanitation program.

389. DAIRY BACTERIOLOGY. Prerequisite: Bacteriology 350. *Mr. Bennett.*

Determination of numbers and types of bacteria in dairy products and their significance; the use of microorganisms in the manufacture of dairy products.

390. DAIRY CATTLE IMPROVEMENT. Prerequisites: Plant Pathology 358 and Chemistry 346 or equivalent. *Mr. Morrison.*

Applications of the fundamentals of anatomy, physiology, nutrition, and endocrinology as applied to the breeding of dairy cattle. Study of selection factors, pedigrees, herd classification, herd records, and herd analysis.

391. FARM DAIRYING. Prerequisite: Dairy 3. *Mr. Henderson and the Staff.*

Composition and properties of milk. The handling of milk and its products on the farm. A brief introduction to dairy manufacture. To be taken by students majoring in dairy manufacturing.

392. DAIRY CATTLE FEEDING AND MANAGEMENT. Prerequisites: Chemistry 346 and Animal Husbandry 373 or equivalent. *Mr. Morrison.*

Applications of the fundamentals of anatomy, physiology, nutrition, and endocrinology as applied to the nutrition, feeding, and management of dairy cattle.

394. MARKET MILK. Prerequisite: Dairy 3. *Mr. Henderson and Mr. Sheuring.*

Sanitary production and processing of milk supply, milk inspection systems, and marketing milk.

395. DAIRY PLANT MANAGEMENT. Prerequisite: Dairy 3. *Mr. Sheuring.*

Fundamental principles of the management of creameries and other dairy manufacturing plants.

399. ICE CREAM MAKING. Prerequisite: Dairy 3. *Mr. Sheuring.*

Care and preparation of ingredients; manufacture of plain and fancy ice cream and related products.

400-401. ADVANCED DAIRY BACTERIOLOGY. 10 hours. Prerequisites: Dairy 350, 389, and Bacteriology 350. *Mr. Bennett and Mr. Sheuring.*

More detailed study of the bacteriology of dairy manufactures and additional bacteriological test of milk and its products.

410. MILK SECRETION. 3 hours. Prerequisites: Dairy 3, 392, and Chemistry 346.

Principles of nutrition in their relationship to milk secretion.

411, 412, 413. DAIRY RESEARCH. 1 to 4 hours a quarter. Prerequisites: Dairy 3, and two advanced courses in dairying. *The Staff*.

Individual problems related to dairy production or dairy manufacturing. Type-written thesis required of all dairy majors. May be elected by other departments for one quarter with no thesis required.

GRADUATE COURSES

804. PROBLEMS IN DAIRY HUSBANDRY. Prerequisites: Dairy 391, Animal Husbandry 373, and Plant Pathology 358 (or equivalent). *Mr. Morrison*. (This course not open to dairy majors).

A study of the basic principles of nutrition, physiology, genetics, and endocrinology in dairy cattle and their practical application to dairy farming.

805-806. DAIRY CATTLE FEEDING AND MANAGEMENT. 10 hours. Prerequisites: Dairy 390, 392, and 394, or equivalents.

A study of research work on the subject with problems to be selected.

807-808. BUTTER MAKING. 10 hours. Prerequisites: Dairy 394 and 397. *Mr. Henderson* and *Mr. Bennett*.

Manufacture of creamery butter.

809-810. MARKET MILK. 10 hours. Prerequisites: Dairy 394 and 399. *Mr. Henderson* and *Mr. Sheuring*.

The handling and distribution of fluid milk.

811-812. ICE CREAM MAKING. Prerequisites: Dairy 394 and 399. *Mr. Sheuring*.

Care and preparation of ingredients; manufacture of plain and fancy ice cream and related products.

930. THESIS RESEARCH IN DAIRYING. 5 to 50 hours.

Offered any quarter to meet the needs of any candidate for a degree of Master of Science in Agriculture. Open only to graduate students majoring in the field of dairying.

DEPARTMENT OF FOOD TECHNOLOGY

(South Campus)

Food processing has been steadily increasing in importance in the Southeast for a number of years. The growth of the food processing industries has created a demand for college graduates with training in food technology.

The Department of Food Technology offers both undergraduate and graduate instruction designed to give basic, technical training for the laboratory and production phases of the following industries: canning, freezing, pickling, preserving, meat processing, and the preparation and preservation of specialty food products. Superior students are encouraged to undertake graduate study because of the greater opportunities open to food technologists with an advanced degree.

The department has facilities for instruction and for research. The facilities for instruction are sufficiently large to enable the student to obtain practical experience. The department has a Food Processing Center containing a community-type canning plant, cold storage and freezing rooms, commercial canning equipment, dehydration facilities, and a research laboratory. In addition the department has a commercial-type Meat Processing Plant equipped to process large quantities of beef, pork, and other meats.

A special Locker Operation and Management Training School is conducted each year for persons working in freezer locker plants and for special students who wish to qualify for positions in locker plants.

Occupations open to graduates are briefly: teaching, extension work with the state and federal agencies; research work with experimental stations, fed-

eral agencies, or private industry; locker operation; technical, sales, and production work with food processors and equipment or container manufacturers; food consulting; food inspecting; and promotional work with public utilities.

Concentrations are not listed herewith but are planned to meet the need of the individual student. Minor work is offered to students taking their major work in other departments. The Department offers major work for the degree of Master of Science in Agriculture.

DEPARTMENT OF FOOD TECHNOLOGY

363. FOOD PRESERVATION. *Mr. Mills.*

An introduction to the field of food preservation with emphasis on the standard practices of canning, freezing, and dehydration. A complete unit for those desiring a general course or for those interested in community food preservation.

364. FREEZER LOCKER OPERATIONS AND MANAGEMENT. *Mr. Mills.*

This course is designed to give prospective locker operators and managers fundamental training and technical information to qualify them for a job in freezer locker plants.

365. MEAT CUTTING. Prerequisite: Bacteriology 350. *Mr. Mills and Mr. Flanagan.*

This course is designed to teach students and prospective locker operators skills in cutting beef, pork, lamb, and poultry suitable for markets, locker plants, and home use.

409. COMMUNITY AND HOME FOOD PRESERVATION. Prerequisites: Bacteriology 350 and Chemistry 346 or equivalent. *Mr. Mills.*

The principles of food preservation will be studied with reference to present practices and possible improved practices in home and community food preservation. The effect of various methods of food preservation will be evaluated in terms of public health, food spoilage, food quality, and the nutritional value of the foods.

411. FOOD PRODUCTS MANUFACTURE. Prerequisites: Bacteriology 350 and Food Technology 363. *Mr. Powers or Mr. Mills.*

The production of commercially packed products will be studied with reference to present practices; the development of better practices through research and the application of food technology principles; the characteristics, uses, and the limitations of various types of containers and food ingredients; and the food purity laws.

412. COMMERCIAL PRACTICES. Prerequisite: Food Technology 411. *Mr. Powers and Mr. Mills.*

A continuation of Food Technology 411 involving the same principles but with emphasis on the advanced studies of jams, jellies, fermentation, and dehydration.

414. FOOD ANALYSIS AND GRADING. Prerequisites: Bacteriology 350, Food Technology 363, and Chemistry 23. *Mr. Powers.*

This course is designed to teach the students methods of food examination basic to the detection of adulteration, to food grading, to quality control, and as a training in technique for research studies. Particular emphasis will be placed on the students' learning to use such sources of information as the *Methods of Analysis* of the Association of Official Agricultural Chemists and of the American Public Health Association, and *Chemical Abstracts* in planning, making, and interpreting analysis new to them. Physical and organoleptic methods of grading foods, such as are used by the Processed Food Inspection Service of the Agricultural Marketing Administration, will also be taught to prepare graduates for governmental service and to make them conscious of the factors affecting the quality of processed foods.

415. SEMINAR. Prerequisite: Food Technology 363 or 409. *The Staff.*

The purpose of the course will be to stimulate the students' interest in food processing and to broaden their knowledge of the industry by discussion of important or recent experimental work, by the students reporting and discussing current trade and scientific articles, and by bringing to them speakers who are authorities on some phase of agriculture, industry, science, or education.

416. SEMINAR. Same as the above course.

417. FOOD INDUSTRIES SURVEY. Prerequisites: Food Technology 363 and 409 or equivalent. *Mr. Powers.*

This course includes the study of the sources of raw materials, the processing, storage, and handling of such processed foods as sugar, flour, salt, and spices; and the problems involved in the production of these products.

418. MEAT PROCESSING. Prerequisite: Bacteriology 350. *Mr. Mills.*

This course includes instruction in killing, skinning, dressing of pork and beef; grading, care of hides; utilization of inedibles; curing of beef and pork; artery and stitch pumping; smoking, packaging, and storing of cured pork products; manufacture of specialty meat products.

420. ADVANCED COMMERCIAL PRACTICES. Prerequisite: Food Technology 412. *Mr. Powers.*

A continuation of Food Technology 412 but with emphasis on food industries other than those covered in Food Technology 411 and 412, such as frozen food, carbonated beverages, edible oils, baking and milling, and others.

421. FOOD INSPECTION AND ANALYSIS. Prerequisite: Bacteriology 405. *Mr. Powers.*

Food will be examined from a microbiological aspect. Special techniques as practiced in the food industry will be used. Emphasis will be placed on correlating the microbial flora of canned food with canning procedures. Processing times will be determined using Balls mathematical methods, as well as the general method.

422. ADVANCED FOOD ANALYSIS. Prerequisite: Food Technology 421 and Bacteriology 405. *Mr. Powers.*

A continuation of Food Technology 421.

423. SEMINAR. *The Staff.*

A continuation of Food Technology 415 and 416.

GRADUATE COURSES

819. METHODS IN FOOD TECHNOLOGY. Prerequisite: Food Technology 614. *Mr. Powers.*

Selected problems associated with food preservation will be studied intensively to extend the student's knowledge of food technology principles and to develop greater facility in the application of scientific methods to the solution of new problems. Principles and techniques from both basic and applied fields of science will be studied.

820. METHODS IN FOOD TECHNOLOGY. *Mr. Powers.*

A continuation of Food Technology 819.

822. INSTRUMENTATION IN FOOD ANALYSIS. Prerequisite: Food Technology 621. *Mr. Powers.*

Polarographic, spectrophotometric, colorimetric, and other methods of analysis will be studied. Emphasis will be placed upon correlation and interpretation of results.

DEPARTMENT OF HORTICULTURE

(Conner Hall, South Campus)

The field of horticulture is concerned with the production and marketing of vegetables, fruits, flowers and ornamental plants. Specialized training is offered in each of these divisions.

The concentration in Vegetable Crops prepares students for truck growing, market gardening, production of vegetables for processing, vegetable plant production, and vegetable seed production. In addition, graduates may be employed in allied industries servicing and supplying vegetable producers. Salesmen for equipment, fertilizers, spray materials and seed; operators of farmers' or cooperative markets; buyers or representatives for chain stores; and field men for canneries or quick freeze plants are examples. Opportunities are available as well in transportation, inspection, marketing, and regulatory services. Advanced work leads to positions in teaching, extension and research.

Opportunities in Floriculture and Ornamental Horticulture lie chiefly in the commercial field. Many graduates go into business for themselves as producers of flowers and ornamentals. Openings are also available for greenhouse technicians, foremen or managers; specialists for pruning, spraying, and transplanting for large nurseries; for salesmen in wholesale commission houses or with seedsmen or brokers; for the development and maintenance of grounds of industrial concerns and other institutions; and in cemetery

and park work. Students who continue in graduate work either here or at some other institution have excellent openings in teaching, research, and extension.

Training in the Pomology concentration prepares students for the efficient commercial production of tree and small fruits. Opportunities are also found in work with the industries which service or supply the fruit growers. Some of these are salesmen for equipment, fertilizers, and spray materials; operators of farmers' or cooperative markets; operators of large orchards or small fruit plantings; buyers or representatives for chain stores or other concerns and field men for canneries. Advanced degrees lead to a variety of openings in teaching, extension, and research.

The Department of Horticulture has greenhouses, gardens, and a one-hundred and twenty acre farm, eight acres of which are under irrigation. Numerous varieties of fruits, flowers and vegetables are produced for instructional and experimental purposes.

Students may enter the concentrations in the Department of Horticulture at the completion of the required freshman and sophomore courses in Agriculture or their equivalent.

Those interested in Floriculture and Ornamental Horticulture may enter as juniors if they have completed the junior college work as offered in the University System (or its equivalent) for the B.S.A., B.S., B.S.H.E., or B.A. degree. Students who have completed their junior college work in schools other than that of the College of Agriculture should schedule 10 hours each of botany and chemistry as they are the prerequisites to the work in Floriculture and Ornamental Plant Production. They must also take Horticulture 1, Agronomy 1 and Agronomy 10. If they have had the required botany and chemistry these three courses will be scheduled as junior-senior electives. Students entering these fields under the above conditions will not be permitted to change to other agricultural concentrations without satisfying the junior college requirement of the College of Agriculture.

HORTICULTURAL CONCENTRATIONS IN FRUIT PRODUCTION, VEGETABLE PRODUCTION, FLORICULTURE, AND ORNAMENTAL PLANT PRODUCTION

MAJOR: Two 300 and two 400 courses in horticulture	20 Hours
AGRICULTURAL SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353 and 358, Zoology 374	20 Hours
FIRST MINOR: To be approved by Head of Department. Two junior or senior courses in any one Department of the University.....	10 Hours
SECOND MINOR: Two junior or senior courses in any Department of the College of Agriculture. Approved by Head of Department....	10 Hours
SPECIAL REQUIREMENTS: Two courses selected: Chemistry 346, Agronomy 356, Plant Pathology 357, Botany 380	10 Hours
GENERAL ELECTIVES SUGGESTED: Animal Husbandry 373, Botany 323, Botany 380, Food Technology (one course), Chemistry 346, Agronomy 356, Plant Pathology 357, Landscape Architecture 313, Agricultural Economics 304, Advanced Military Science 350 a-b-c, 351 a-b-c. Electives to be adapted to fit special cases....	20 Hours

HORTICULTURE

1. GENERAL HORTICULTURE. Prerequisite: Botany 21. *Mr. Johnstone* and *Mr. Keener*.

A survey of the horticultural practices in plant propagation, vegetable gardening, and fruit growing particularly adapted to the farm.

309. SYSTEMATIC POMOLOGY. Prerequisite: Horticulture 1. *Mr. Sullivan*.
A study of the history, classification and adaptability of fruit varieties.

310. GREENHOUSE CONSTRUCTION AND MANAGEMENT. 2 hours. *Mr. Bowden*.
Emphasis is placed upon types of greenhouses and methods of construction; geographical and topographical locations; structural materials; heating; equipment; plans; estimates; irrigation; and management. Cloth and lath or slat houses; cold-frames and hotbeds; pits and storage houses.

311. FLORAL DESIGN. 3 hours. Prerequisite: Horticulture 1. *Mr. Bowden*.
The commercial aspects of floral design open to majors in floriculture ONLY. Emphasis is placed upon the science, art, and psychology of color; line and design; floral designs, basket and bowl arrangements; church, house, hotel and wedding decorations as well as wedding bouquets, corsages and emblems.

316. FLOWER STORE MANAGEMENT. 3 hours. Prerequisite: Horticulture 1. *Mr. Bowden*.

A study of materials, equipment, supplies, and arrangement of retail floral shops. Sources of flowers and supplies.

321. THE MAINTENANCE OF ORNAMENTAL PLANTINGS AND LANDSCAPE MANAGEMENT. (Landscape Architecture). 3 hours. Prerequisite: Horticulture 1. *Mr. Bowden* and *Mr. Wigginton*.

Formulation and study of a work program which considers those essential operations contributing to the successful landscape management of grounds. Methods of maintaining lawns, hedges, perennial and annual beds and borders, walks, pools, trees, specimen plants and other ornamental plantings.

353. SPRAYS AND SPRAYING. 3 hours. Prerequisites: Horticulture 1 and Plant Pathology 353. *Mr. Sullivan*.

A study of the chemistry, preparation, and application of sprays to various horticultural crops, with special attention given to the economical and practical application of the work.

362. NURSERY PRODUCTION AND MANAGEMENT. 2 hours. Prerequisite: Horticulture 1. *Mr. Keener*.

Economical and practical methods of plant propagation receive attention, as well as culture, protection, and management of nursery properties.

401. THE FUNDAMENTALS OF FRUIT PRODUCTION. Prerequisites: Horticulture 1, 353 or Plant Pathology 353, Botany 380 or equivalent. *Mr. Sullivan*.
This course deals with the biological and chemical principles of plant life as directly applied to the economic production of fruit crops.

402. COMMERCIAL FRUIT PRODUCTION. Prerequisite: Horticulture 401 and Botany 380. *Mr. Sullivan*.

A careful and intensive study is made of the major pomological crops of the South and the nation as a whole. This course is designed to acquaint the student with the present practices followed throughout the country in commercial fruit growing.

403. VEGETABLE PRODUCTION. Prerequisites: Horticulture 1, 353 and Botany 380 or equivalent. *Mr. Johnstone* and *Mr. Keener*.

The basis of this course is a study of the fundamental biological and scientific principles underlying vegetable production.

404. ADVANCED VEGETABLE CROPS. Prerequisites: Horticulture 403 and Botany 380. *Mr. Keener*.

A continuation of course 403, dealing mainly with the commercial practices at this time being followed in vegetable growing, with special emphasis given to the major vegetable crops of the Southeastern States.

407-408. SPECIAL PROBLEMS IN HORTICULTURE. 3-5 hours each. For summer work 10 hours must be scheduled. Prerequisites: Horticulture 1, and at least 10 hours in one of the horticultural concentrations, or equivalent, in experience or other combinations of courses. *The Staff*.

This course is designed for the advanced undergraduate or graduate student who wishes to work out a problem of special interest or for the student who wishes to gain practical experience. It is required of all major students who do not have a farm or plant production background.

410. GROWING ORNAMENTAL PLANTS. 3 hours. Prerequisites: Horticulture 353 and Botany 380. *Mr. Bowden.*

This course will be a study of nursery, perennial crops and the handling of ornamental plants, cultivation, fertilization, pruning, training, harvesting, transplanting and ecological adaptations.

Note: An undergraduate thesis is not required but may be presented by students with good grades in lieu of Horticulture 407-408 or in special cases.

412. THE PRODUCTION OF MAJOR WINTER CUT FLOWERS. 3 hours. Prerequisites: Botany 380 and any senior college course in floriculture. *Mr. Bowden.*

This course is concerned primarily with the major crops grown under glass for sale.

413. THE PRODUCTION OF POT PLANTS AND MINOR FLOWERS. 3 hours. Prerequisite: Horticulture 412. *Mr. Bowden.*

This course deals with the production of pot plants and minor cut flowers not discussed in 412.

414. THE PRODUCTION OF SPRING AND SUMMER CUT FLOWER CROPS. 2 hours. Prerequisite: Horticulture 413. *Mr. Bowden.*

This course is concerned with the production of high temperature indoor cut flowers and outdoor cut flowers.

421. THE HANDLING, PREPARATION FOR MARKET, AND STORAGE OF FRUITS AND VEGETABLES. Prerequisites: Two senior college courses in fruits or vegetables. *Mr. Johnstone.*

A study of the operation involved and the equipment and supplies used in the harvesting, handling, preparation for market and storage of fruits and vegetables.

422. SMALL FRUIT AND GRAPE PRODUCTION. 3 hours. Prerequisites: One senior college course in fruit production and Plant Pathology 357. *Mr. Johnstone.*

This is a specialized course concerned with the production of grapes, blue-berries, strawberries, blackberries, dewberries and other small fruits.

GRADUATE COURSES

800. HORTICULTURAL SEMINAR. 1 hour. *The Staff.*

Required of all graduate students in Horticulture. Open to all students in related fields. Attendance without registering for credit is permitted. Papers on selected topics to be presented by advanced students, faculty members and guest speakers.

801. HORTICULTURAL CROP IMPROVEMENT. Prerequisite: Plant Pathology 358, 401 or equivalent. *Mr. Johnstone.*

A study of the applications of the principles of genetics and plant breeding to the modification and improvement of horticultural plants. The maintenance of improved strains and seed production are also considered.

809. THE HISTORY, LITERATURE, AND DEVELOPMENT OF HORTICULTURE. Prerequisites: Two senior college courses in Horticulture. *Mr. Johnstone.*

This course traces the important steps in the development of the applied science of horticulture as it is today. Particular reference is made to the contributions of outstanding leaders in horticultural enterprises and organized research.

814. METHODS IN HORTICULTURAL RESEARCH. Prerequisites: A B.S. or B.S.A. degree or equivalent in Horticulture or related field. *Mr. Johnstone and Staff.*

This course is designed primarily for the student who intends to complete the work for a Ph.D. degree or who wishes employment in a research position as technician or who intends to instruct at the college level. Field and laboratory methods in use in horticultural research are discussed and demonstrated or applied in laboratory exercises. This will include techniques from fundamental fields such as plant physiology, genetics, plant pathology, chemistry and biometry as these are applied to the solution of horticultural problems.

930. RESEARCH AND THESIS. Prerequisite: 10 hours or more of graduate work (courses) in horticulture. *The Staff.*

DEPARTMENT OF PLANT PATHOLOGY AND PLANT BREEDING

(Plant Pathology Building, South Campus)

The recent introduction of many new diseases of agricultural crops and the importance placed on breeding plants for resistance to diseases has greatly increased the demand for trained personnel in these fields.

The specialized courses given in this department are designed to give instruction in the agencies causing diseases in plants and their effects upon the plant. They also include the principal methods by which these diseases may be controlled. The student also receives training in the principles and methods used in development of new varieties or strains of cultivated plants which are better adapted to agricultural uses and which are more resistant to certain diseases.

Students who specialize in this department receive training that will prepare them for work in the following fields:

1. Experiment station or U. S. D. A. specialists
2. Agricultural Extension agents
3. State plant inspectors
4. Research or sales promotion workers for manufacturers of fungicides or insecticides
5. Specialized types of agriculture such as commercial plant growers or breeders of certified seed
6. Preparation for advanced study in fields of plant pathology or plant breeding leading toward the doctorate.

The outline of study is so arranged that the student may concentrate on diseases or breeding of crops with which he will later be concerned. The following concentrations are proposed but can be modified within a fairly wide degree of latitude depending upon the requirements of the student.

CONCENTRATION IN FIELD CROP DISEASES

MAJOR: Plant Genetics 401, Plant Pathology 356, 420, 421.....	20 Hours
AGRICULTURAL SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353, 358, Zoology 374	20 Hours
FIRST MINOR: Agronomy 320, 321	10 Hours
SECOND MINOR: Botany 323, 380	10 Hours
GENERAL ELECTIVES FROM: Agronomy 355, 356, 403, 423, Agricultural Economics 364, Botany 305, 483, Chemistry 346, Horticulture 353	30 Hours

CONCENTRATION IN TRUCK CROP DISEASES

MAJOR: Plant Genetics 401, Plant Pathology 357, 420, 421	20 Hours
AGRICULTURAL SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353, 358, Zoology 374	20 Hours
FIRST MINOR: Horticulture 403, 404	10 Hours
SECOND MINOR: Botany 323, 380	10 Hours
GENERAL ELECTIVES FROM: Agronomy 356, Agricultural Economics 364, Botany 305, 482, Chemistry 346, Horticulture 353.....	30 Hours

CONCENTRATION IN FRUIT TREE DISEASES

MAJOR: Plant Genetics 401, Plant Pathology 357, 420, 421	20 Hours
AGRICULTURAL SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353, 358, Zoology 374	20 Hours
FIRST MINOR: Horticulture 401, 402	10 Hours
SECOND MINOR: Botany 323, 380	10 Hours
GENERAL ELECTIVES FROM: Agronomy 356, Agricultural Economics 364, Botany 483, Chemistry 346, Horticulture 353	30 Hours

CONCENTRATION IN PLANT BREEDING

MAJOR: Agronomy 423, Plant Pathology 356 or 357, 401, 402.....	20 Hours
AGRICULTURAL SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353, 358, Zoology 374	20 Hours
FIRST MINOR: Two senior division courses in College of Agriculture to be approved by the major professor	10 Hours
SECOND MINOR: Botany 323, 380	10 Hours
GENERAL ELECTIVES FROM: Senior division courses from appropriate Plant Science Departments or Chemistry, Mathematics, or Agricultural Economics	30 Hours

PLANT PATHOLOGY

353. ELEMENTARY PLANT PATHOLOGY. Three lecture and two laboratory periods. Prerequisites: Botany 21-22. *Mr. Thompson.*

A general introduction to the diseases of plants. Twenty types will be studied in field and laboratory.

354. FOREST PATHOLOGY. Three lecture and two laboratory periods. Prerequisites: Botany 21-22. *Mr. Thompson.*

This course will be similar to Elementary Plant Pathology 353, but will differ in the use of types causing death or decay in trees. Methods of control suitable to both forest and city conditions will be studied.

356. DISEASES OF FIELD CROPS. Three lecture and two double laboratory periods. Prerequisite: Plant Pathology 353. *Mr. Miller.*

A course designed to meet the needs of students in plant pathology and agronomy.

357. DISEASES OF HORTICULTURAL CROPS. Three lecture and two double laboratory periods. Prerequisite: Plant Pathology 353. *Mr. Miller.*

A study in the more important diseases of fruits, vegetables, and ornamentals.

358. PRINCIPLES OF BREEDING. Prerequisites: Botany 21-22, or Zoology 25-26. *Mr. Browne* or *Mr. Miller.*

An introductory course in agricultural genetics designed to acquaint the student with principles of heredity and variation and their application to breeding.

401. PLANT GENETICS. Prerequisite: Plant Pathology 358. *Mr. Browne.*
Advanced studies in inheritance of plants, including the genetics of sterility and disease resistance, and the principles of plant improvement.

402. ADVANCED PLANT BREEDING. Prerequisite: Plant Pathology 358. *Mr. Browne.*

Advanced study of principles and methods of plant breeding, with special emphasis on techniques involved in conducting plant breeding projects. Given, as is 401, in alternate years.

420-421. MYCOLOGY. 5 hours each. Three lecture and two double laboratory periods. Double course. Prerequisites: Plant Pathology 353 and another suitable senior division course. *Mr. Miller* and *Mr. Thompson.*

A systematic study of the fungi with special emphasis on those that cause plant disease or forest decay. Technique of culture methods, isolation, sectioning, and inoculation is included.

GRADUATE COURSES

800-801. RESEARCH IN PLANT PATHOLOGY. 5 hours each. Prerequisites: Plant Pathology 353, 420, 421. *Mr. Miller* and *Mr. Thompson*.

This course involves the prosecution of a problem in plant disease with parallel reading and conferences with the instructor.

810-811. RESEARCH IN PLANT GENETICS. 5 hours each. Prerequisites: Plant Pathology 358 and 401. *Mr. Browne*.

This series consists of a breeding problem with field studies, appropriate readings, and conferences.

DEPARTMENT OF POULTRY HUSBANDRY

(Poultry Building, South Campus)

The courses in the Department of Poultry Husbandry are designed to prepare the student for work in the poultry industry, its allied fields, and to pursue graduate study.

Students who major in this department receive training that will prepare them for work in the following fields:

1. Commercial poultry farming.
2. The feed industry: diet formulation and sales.
3. Experiment Station and Extension specialist.
4. The hatchery business: incubation and hatching egg production.
5. Advance study leading to the M.S. and Ph.D. in the fields of poultry nutrition, genetics, pathology, and physiology.

The poultry industry in Georgia ranks very near the top among the agricultural enterprises which bring the greatest cash income to the farmers. The demand for well trained men in poultry husbandry far exceeds the number of graduates. The industry is growing constantly and as it grows the demand for trained men also increases.

Adequate facilities and technical equipment are available for both teaching and research uses.

More than thirty breeding pens are available for teaching and research use. Five thousand laying birds are cared for, including the birds entered in the Georgia National Egg Laying Test. This contest brings to the campus the products of the nation's outstanding poultry breeders. Incubator and brooding capacity allows the hatching and rearing of some 30,000 chickens annually.

Students majoring in poultry have opportunity for experience in poultry disease diagnosis.

REQUIREMENTS FOR A MAJOR IN POULTRY HUSBANDRY

MAJOR: Poultry 372, 373, 374, 375, and an additional 6 hours in Poultry Husbandry	20 Hours
FIRST MINOR: Animal Husbandry 373 and 402	10 Hours
SECOND MINOR: Any Department in the University subject to the approval of the head of the department.	10 Hours
SCIENCE SELECTIONS: Bacteriology 350, Chemistry 346, Mathematics 356, Plant Pathology 358	20 Hours
SPECIAL REQUIREMENTS: Human Biology 1 and 2	10 Hours
GENERAL ELECTIVES: Subject to the approval of the Head of the Department	20 Hours

POULTRY HUSBANDRY

60. POULTRY BIOLOGY AND PRODUCTION. *Mr. Huston and Mr. Wheeler.*

An introductory course designed to provide basic information in poultry husbandry. A survey of all phases of poultry husbandry is combined with a study of the biology of the fowl. The latter includes the anatomy and physiology of the digestive, respiratory, and reproductive tracts. The endocrine system and the principles of inheritance are considered.

371. COMMERCIAL POULTRY MANAGEMENT. 3 hours. *Mr. Huston.*

A detailed study of the management practices used in commercial egg and broiler production. The laboratory includes practice in culling and selection, vaccination, caponization, and the management of large flocks.

372. POULTRY BREEDING. 3 hours. Prerequisite: Plant Pathology 358 or Zoology 370. *The Staff.*

A consideration of the inheritance of morphological and psychological characters, including meat and egg production. Emphasis is on the development of criteria for selection and the development of genetically sound poultry breeding programs.

373. POULTRY DISEASES AND PARASITES. 3 hours. Prerequisites: Poultry Husbandry 60 and Bacteriology 350. *Mr. Ellis.*

The course is available to students majoring in poultry husbandry and others that are qualified. It is a study of the common diseases and parasites of poultry, their cause, diagnosis, prevention, and treatment.

374. SEMINAR AND THESIS. Prerequisites: Poultry Husbandry 60, 372, 373, 375, and 376. *The Staff.*

The student is permitted to select a definite field of endeavor and must develop a project and carry it through to completion. A thesis on the project is required. The student is required to stay through holidays if necessary to look after the project.

375. POULTRY NUTRITION. 3 hours. Prerequisite: Poultry Husbandry 60. *Mr. Wheeler.*

A study of the digestive physiology and nutritive requirement of the fowl as the basis for evaluating feedstuffs and formulating practical poultry rations.

376. MARKETING POULTRY AND POULTRY PRODUCTS. 3 hours. Prerequisite: Poultry Husbandry 60. *Mr. Huston.*

This course includes the care and handling of products prior to marketing; the processing of poultry and poultry products and the general practices of marketing.

377. PHYSIOLOGY OF HATCHABILITY. 3 hours. *Mr. Wheeler.*

A lecture and problem course in incubation, considering the heredity, nutritional, and environmental factors affecting the development and hatching of chicks. (Offered in alternate years.)

378. ANATOMY OF THE DOMESTIC FOWL. 3 hours. *Mr. Wheeler.*

A lecture and laboratory study of the gross and microscopic anatomy of the bird with special reference to domestic fowls.

401. AVIAN PHYSIOLOGY. Four double laboratory periods. Prerequisites: Chemistry 346, Poultry Husbandry 373, 375, and 377. *Mr. Wheeler.*

A study of the physiology of circulation, respiration, digestion, metabolism, and the nervous system of the fowl with special emphasis on the glands of internal secretion. For advanced undergraduates and students in veterinary medicine. Ordinarily taught in the summer session.

GRADUATE COURSES

801. ADVANCED POULTRY BREEDING. Prerequisites: Plant Pathology 358 or Zoology 370, and Poultry Husbandry 372. *Mr. Wheeler.*

The development of practical poultry breeding programs with a sound genetical background. A study is made of the mode of inheritance and relative heritability of various characteristics of economic importance and criteria for effective selection toward their improvement.

802. PROBLEMS IN POULTRY MARKETING. Prerequisites: Poultry Husbandry 371, 372, and 376. *Mr. Wheeler.*

A course designed to permit the student to make an intensive study of some problem in the field of egg and poultry marketing.

803. STUDIES IN POULTRY NUTRITION. Prerequisites: Poultry Husbandry 371, 373, and 375. *Mr. Wheeler.*

An independent study is made of some problems dealing with the application of fundamental and nutrition findings to practical poultry feeding, either in the formulation of feeds or in methods of feeding.

804. POULTRY PATHOLOGY. Prerequisites: Bacteriology 350 and Poultry Husbandry 373. *Mr. Ellis.*

An intensive course in poultry disease diagnosis. Various diseases will be studied, using cases sent in from the field as materials, and the development of skill in the use of laboratory diagnostic techniques will be emphasized.

806. PHYSIOLOGY OF AVIAN REPRODUCTION. Prerequisites: Poultry Husbandry 372 and 373. *Mr. Wheeler.*

A consideration of the fundamental biological aspects of avian reproduction. Knowledge of the fundamentals and mastery of techniques will be utilized in the working of problems in reproduction in the domestic fowl.

930. RESEARCH AND THESIS. 5 to 20 hours. Prerequisites: two or more graduate courses in poultry husbandry. *The Staff.*

GENERAL AGRICULTURE

This concentration, known as General Agriculture, is open to any Junior and Senior student in the College of Agriculture. It is a combination of courses selected from all departments in the College. Students wishing to register for this program should report to the Associate Dean of the College.

General Agriculture represents a program approved by the Extension Service for those who wish to prepare for positions as county agents. It is also an excellent all-round program of studies for those who wish to prepare themselves for general farming.

GENERAL CONCENTRATION FOR EXTENSION WORKERS

MAJOR: Agronomy 320, 321 and 356, Animal Husbandry 350, Poultry Husbandry (any 300 course)	21 Hours
AGRICULTURAL SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353 and 358, Zoology 374	20 Hours
FIRST MINOR: Agricultural Economics 301 and 304	10 Hours
SECOND MINOR: Animal Husbandry 373, Horticulture 353	10 Hours
SPECIAL REQUIREMENTS: Veterinary Medicine 200, Journalism 368....	10 Hours
GENERAL ELECTIVES FROM: Dairy Husbandry 391, Animal Husbandry 371, Food Technology 363, Agronomy 332, Poultry Husbandry (any 3-hour course other than selection for major), Agricultural Economics 351, 364 or 400, 467 or 469, Horticulture 403, Agricultural Engineering 6, 11, 61 or 62, 70 or 280, 205, 206, and 223, Advanced Military Science 350 a-b-c and 351 a-b-c or Air Science 355 a-b-c and 356 a-b-c	19 Hours

AGRICULTURAL CHEMISTRY*

(Conner Hall, South Campus, Terrell Hall, North Campus)

Instruction in this division of the Department of Chemistry is designed primarily to fit the needs of agricultural students. By means of lectures, recitations, and laboratory work, students are taught the fundamental chemical principles underlying and controlling plant and animal life.

The course for majors in agricultural chemistry is designed to prepare students for work in agricultural experiment stations, in fertilizer and feed control laboratories, and similar positions in allied industries.

*Agricultural chemistry courses are a sub-division of the Department of Chemistry of the College of Arts and Sciences. For other offerings see the bulletin of the College of Arts and Sciences.

21. 22. GENERAL CHEMISTRY. Four lectures or recitations and one laboratory period per week each quarter. Breakage deposit, \$5 for each course. *The Staff and Assistants.*

The first course covers the chemistry of the non-metallic elements, including a systematic treatment of chemical principles and their applications. The second course is a continuation of the first course, including a general survey of the metallic elements.

23. QUALITATIVE INORGANIC ANALYSIS. Two lectures or recitations and three laboratory periods. Prerequisite: Chemistry 22. Breakage deposit, \$5. *Mr. Spell, Mr. Whitehead, Mr. Wilder, and Assistants.*

The fundamental theories of qualitative analysis and analyses of common cations and anions by semi-micro methods.

346. ELEMENTS OF ORGANIC CHEMISTRY. (For agricultural and home economics students). Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 22, or with consent of the Head of the Department. Breakage deposit, \$5. Conner Hall. *Mr. Coggin, Mr. Philbrook, Mr. Wilder, and Assistants.*

A brief introduction to aliphatic organic chemistry.

347h. AGRICULTURAL ORGANIC CHEMISTRY. 3 hours. (For Veterinary or Pre-veterinary students only). Two lectures or recitations and one laboratory period. Breakage deposit, \$5. Prerequisite: Chemistry 346. (This course will not satisfy the University of Georgia requirements of organic chemistry for premedical students.) *Mr. Coggin, Mr. Philbrook, Mr. Scott, and Mr. Wilder.*

A continuation of Chemistry 346, dealing primarily with the coal tar products and an amplification of carbohydrates, oils, fats and proteins.

380. QUANTITATIVE INORGANIC ANALYSIS. Two lecture and three three-hour laboratory periods. Prerequisite: Chemistry 23. Breakage deposit, \$5. *Mr. Spell, Mr. Whitehead, and Assistants.*

The fundamental theories of quantitative analysis and typical analyses involving volumetric and gravimetric methods.

449. INTRODUCTION TO RESEARCH (BIOCHEMICAL). One lecture and four library or laboratory periods. Prerequisite: Chemistry 451 or 452. Breakage deposit, \$5. Conner Hall. *Mr. Coggin.*

An introduction to the literature of chemistry, research procedures and directions which can be found only in original articles.

451-452. PHYSIOLOGICAL CHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisites: 451—Chemistry 346 and a course in Botany or Biology or Zoology or Animal Husbandry or Poultry Husbandry. 452—Chemistry 451. Breakage deposit, \$10 (\$5 each course). Conner Hall. *Mr. Coggin.*

451. Fundamental principles of physiological chemistry in the animal body, including the chemistry of foods, digestion, metabolism and excretions. 452. The metabolism of carbohydrates, lipids and proteins.

453. PHYTOCHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisites: Chemistry 347h or 340b, and one course in Botany. Breakage deposit, \$5. Conner Hall. *Mr. Coggin.*

A study of the compounds and chemical principles encountered in plants.

460, 461. AGRICULTURAL QUANTITATIVE ANALYSIS. One lecture or recitation and four laboratory periods per week each quarter. Prerequisites: 460—Chemistry 380; 461—Chemistry 460. Breakage deposit, \$5 for each course. Conner Hall. *Mr. Wilder.*

Analysis of dairy products; feeds and feedstuffs; fertilizers, and insecticides; methods of soil and water analysis.

468. MICROCHEMICAL ANALYSIS OF SOILS. Five lectures, recitations, or laboratory periods. Prerequisites: Chemistry 346 and Agronomy 10. Breakage deposit, \$5. Conner Hall. *Mr. Wilder.*

Methods of soil sampling and tests employed for the determination of some water-soluble cations and anions most frequently found in soils.

DEPARTMENT OF AGRICULTURAL EDUCATION

(Peabody Hall, North Campus)

The courses offered in this department prepare men to be teachers of vocational agriculture. Major students in this department have a broad training in agriculture, and, upon the satisfactory completion of the training program outlined, are qualified for certification by the State Department of Education as teachers of agriculture. The program for training teachers of agriculture is carried on in cooperation with the College of Education through its Division of Vocational Education.

In addition to the opportunities for teaching vocational agriculture, graduates who have majored in this department are in demand as teachers in the Veterans Farm Training Program.

During one quarter of the senior year, each student does apprentice teaching in a selected off-campus rural school for which fifteen quarter hours of credit are given. The apprenticeship method of training teachers of agriculture has been used since 1928. This system of training enables the apprentice to deal first-hand with the many problems of a teacher of agriculture in a normal situation under the careful supervision of the regular teacher of agriculture and a member of the staff at the University.

CONCENTRATION IN AGRICULTURAL EDUCATION

MAJOR:

Education 335.1, 336.1, 346.1, 347.1, 348.1..... 25 Hours

AGRICULTURAL SCIENCE SELECTIONS:**

Bacteriology 350, Plant Pathology 353, Veterinary Hygiene 200,
Plant Pathology 358, Biology 374 (four of five) 20 Hours

FIRST MINOR:

Agronomy 458, Agricultural Economics 301..... 10 Hours

SECOND MINOR:

Agricultural Engineering 207 and 208 12 Hours

SPECIAL REQUIREMENTS:

Food Technology 363, Animal Husbandry 373, Education 303,
Education 304, Education 349 25 Hours

COURSES IN THE COLLEGE OF EDUCATION FOR
MAJORS IN AGRICULTURAL EDUCATION

303. INDIVIDUAL ANALYSIS AND PROFESSIONAL PLANNING. *Mr. Hudgins and selected members of the staff.*

Through a full program of testing and counseling, students will make a systematic study of their needs in relation to personal and professional development. Study habits will be analyzed and guidance will be given in improving study habits and in budgeting of time. Opportunities will be provided for students to study the duties and responsibilities of teachers working in the total school program. Students will be expected to choose a teaching field and to plan a professional program in terms of this choice.

304. EDUCATIONAL PSYCHOLOGY. *Mr. Garrison and selected members of the staff.*

Special emphasis in this course is placed upon developing competencies on the part of prospective elementary and high school teachers in understanding and applying the psychological principles involved in the growth and development of children. The Demonstration School will be used for studying and analyzing methods which children use in solving problems of behavior and learning.

**Mathematics 356 or Chemistry 346 may be substituted for any course in this group on approval of adviser.

335.1. CURRICULUM PLANNING. Prerequisites: Education 303 and consent of instructor. *Mr. O'Kelley and Mr. Tolbert.*

The purpose of this course is to develop the ability of students to engage in curricular activities in vocational agriculture in the public schools. Emphasis is placed on the procedures for locating, organizing, and summarizing data concerning social and agricultural problems to serve as a guide in formulating curricular activities with high school and adult groups based upon their needs and interests. Directed observation will be carried on in the University Demonstration School and other selected schools.

336.1. TEACHING PROCEDURES. Prerequisites: Education courses 303, 304, 335.1, and consent of instructor. *Mr. O'Kelley and Mr. Tolbert.*

The purpose of this course is to evaluate teaching procedures used by teachers of vocational agriculture in the public schools. Attention is given to techniques used in teaching vocational agriculture to high school and adult groups. The University Demonstration School and other selected schools will be used for observation of high school and adult groups.

346.1, 347.1, 348.1. APPRENTICE TEACHING. 15 hours. Prerequisites: Education 303, 304, 335.1 and 336.1. *Mr. Bryant, Mr. O'Kelley, and Mr. Tolbert.*

Prospective teachers of vocational agriculture are placed as apprentices in carefully selected schools of the state for an entire quarter—(approximately 12 weeks). During this period they are carefully supervised in dealing with the problems of teaching vocational agriculture.

349. SEMINAR IN EDUCATION. Prerequisite: Apprentice Teaching. *Mr. O'Kelley and Mr. Tolbert.*

This is a seminar dealing with problems emerging from experiences in apprentice teaching. Emphasis will be placed upon the planning of a total school program, and the placing and responsibility of the teacher in the school. Special attention will be given to the work of the public schools in relation to the needs and interests of the community, the nation, and the world.

GRADUATE COURSES

W-760. EDUCATION PLANNING AND DEVELOPMENT. Prerequisites: Four courses in education and consent of the instructor. *College of Education Staff.*

The primary purpose of this course is to prepare selected school personnel for participating in programs of educational planning and development. The participants will have an opportunity to formulate plans for carrying on educational development programs at the local school and county level. The total program of the school will be critically examined and procedures developed for enlisting teachers and laymen in planning a more adequate educational program to meet the needs of the people. A critical examination will be made of the literature and experiences of planning groups in America and other parts of the world.

771. TEACHING PROCEDURES IN VOCATIONAL EDUCATION. Prerequisites: four courses in education and consent of the instructor. *Mr. Tolbert and Staff.*

This course is designed to meet the needs of those teachers of vocational agriculture who desire guidance in improving teaching procedures. Consideration is given to the development of curricula based on the needs and interests of students, the organization of the curricula into teaching units, and the planning of units for instruction, teaching, and evaluation.

772. EVALUATION IN VOCATIONAL EDUCATION. Prerequisites: four courses in education and consent of the instructor. *Mr. Tolbert and Staff.*

This course has two primary purposes: (1) to guide teachers, supervisors, and administrators to develop the ability to evaluate departments and programs of vocational education in schools and communities, and (2) to guide teachers in the development of methods and techniques for evaluating their own instruction. Techniques for studying and evaluating departments are developed and used in evaluating one or more vocational programs in a selected school or schools. Consideration is given to setting up evaluative techniques for measuring student development and the application of these techniques to teaching situations.

773. SUPERVISION OF VOCATIONAL TEACHING. Prerequisites: four courses in education and consent of the instructor. *Mr. Tolbert and Staff.*

In this course major emphasis is placed upon the following: (1) developing a point of view or philosophy of teacher education, (2) analyzing the present teacher training program in vocational education in Georgia to discover problem situations that may be used as a basis for teacher education programs, and (3) determining the relative emphasis for each teacher-training agency to place upon the solution of the several problems in the teacher-education program.

871. ADULT EDUCATION. Prerequisites: four courses in education and consent of the instructor. *Mr. Tolbert and Staff.*

The primary purposes of this course are: (1) to develop a philosophy of adult education, (2) to develop techniques for discovering adult problems, and (3) to discover and apply appropriate methods of organizing and teaching adult groups. The course is designed to meet the needs of experienced teachers, rural school supervisors and administrators, and other adult leaders.

873. PROBLEMS IN VOCATIONAL EDUCATION. Prerequisites: four courses in education and consent of the instructor. *Mr. Tolbert and Staff.*

This course is designed to meet the needs of experienced teachers of agriculture who had their professional training outside the state and teachers who desire to secure additional training in specific problems of teaching. The course is planned so that students may work at their special interests individually or in groups.

921. LABORATORY IN APPLIED EDUCATION. Prerequisites: four courses in education and consent of major professor. *College of Education Staff.*

This course is designed to provide opportunities for advanced students to undertake functional studies of topics or problems in education significantly related to their professional tasks. For most students, it will involve supervised field work in the attempt to solve one or more practical school problems related to their normal duties.

BOTANY

(Baldwin Hall, North Campus)

Head: Westfall. Staff: Beck, Carlton, Duncan, Jacobs, Wilson.

21. ELEMENTARY BOTANY. Three one-hour lecture periods and two two-hour laboratory periods. *Mr. Carlton and the Staff.*

A study of (a) the structure of leaves, stems, and roots; (b) growth and nutritive processes of plants; and (c) the relations of plants to their environment.

22. ELEMENTARY BOTANY (continued). Three one-hour lecture periods and two two-hour laboratory periods. *Mr. Carlton and the Staff.*

A study of reproduction, variation, heredity, and evolution of seed plants, with studies of representatives of the other major plant groups and their importance.

305. IDENTIFICATION OF FLOWING PLANTS. Five double laboratory periods or field trips. Prerequisites: Botany 21-22.

Studies in the identification of plants with emphasis on local flowering plants and their relationships.

323. ELEMENTARY PLANT ANATOMY. Five two-hour laboratory periods. Prerequisites: Botany 21-22.

The origin and development of the organs and tissue systems of vascular plants, and a comparative study of the structure of roots, stems, leaves, flowers, and fruits.

358. METHODS IN PLANT HISTOLOGY. Five double laboratory periods. Prerequisites: Botany 21-22.

Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant materials for microscopic study.

375. PLANT ECOLOGY. Five double laboratory-discussion periods and field trips. Prerequisites: Botany 21-22.

The relation of plants and plant communities to the environment in which they grow.

380. PLANT PHYSIOLOGY. Five double laboratory periods. Prerequisites: Botany 21-22. Breakage deposit, \$2.50.

A survey of physiological processes occurring in economic plants and the conditions which affect these processes.

406. TAXONOMY OF WOODY PLANTS. Five double laboratory periods. Prerequisites: Botany 21-22 and any two senior division courses in botany or approved courses in plant pathology, forestry, or geography.

Studies in identification and relationships of Georgia trees and shrubs, with emphasis on identification in winter.

431. MORPHOLOGY OF SEED PLANTS. Five double laboratory periods. Prerequisites: Botany 323 and one other senior division course in botany or plant pathology.

Critical studies of representative seed plants, considering their development and relationships.

440. CYTOLOGY (See Biology 440).

442. CYTOGENETICS (See Biology 442).

471. TAXONOMY OF SEED PLANTS. Five double laboratory periods. Prerequisites: Botany 305 and any other senior division course in botany or approved course in plant pathology, forestry, or geography.

A study of the concepts and system of classification, problems of nomenclature, and the taxonomy of specialized groups.

472. TAXONOMY OF SEED PLANTS (continued). Two lectures and three double laboratory periods. Prerequisite: Botany 471.

A continuation of Botany 471.

473. AGROSTOLOGY. Five double laboratory periods. Prerequisites: Botany 21-22 and two senior division courses in botany, or approved courses in plant pathology, agronomy, or forestry.

A study of the grasses with emphasis on structure, classification, and ecological relationships.

480. GENERAL PHYSIOLOGY. Three lectures and two double laboratory periods. Prerequisites: Botany 21-22 or Zoology 26, and Chemistry 22-23 and 346 or its equivalent. Breakage deposit, \$5.

The lectures include a study of the physical and chemical bases of living protoplasm; the laboratory work includes the use of analytical measurements and determinations of physiological phenomena.

482. NUTRITION OF GREEN PLANTS. Two lectures and three double laboratory periods. Prerequisites: Botany 323 and 380. Breakage deposit, \$5.

A study of the nutrition of the higher plants, including major and minor elements and deficiency symptoms.

483. ADVANCED PLANT PHYSIOLOGY. Five double laboratory periods. Prerequisites: Botany 380 and any other senior division course in botany, chemistry, or plant pathology. Breakage deposit, \$5.

An evaluation of accepted concepts in plant physiology with special attention to the methods employed in arriving at these concepts.

802 and 804. PROBLEMS IN BOTANY. 5 hours for each course. Under this heading work may be pursued under the direction of staff members in plant anatomy, plant ecology, plant morphology, plant physiology, plant taxonomy, or mycology. Prerequisite: two senior division courses in botany or approved courses in agriculture, geography, or forestry.

AGRICULTURAL ENGINEERING

(Barrow Hall, South Campus)

The four-year curriculum leading to the degree of Bachelor of Science in Agricultural Engineering has been planned to give its graduates training in the fundamental subjects of science and engineering, with basic training in agriculture, and a specialized study of subjects involving the application of engineering knowledge to agricultural problems. In the senior year the student may choose a field of concentration by the election of one of the options listed.

The Division offers major work for the degree of Master of Science in Agricultural Engineering and minor work to students taking major work in other departments. Prerequisite to major graduate work is the completion of a standard curriculum in agricultural engineering substantially equivalent to that required of undergraduates at this institution.

Occupations open to graduates are, briefly: teaching, experiment station work, extension work with colleges and federal agencies; engineering work in soil conservation, such as drainage, irrigation, land clearing, and erosion control; advertising, sales, and production work with manufacturers of farm machinery and equipment, and building materials; engineering management and development in rural electrification; editorial work on farm and trade journals; appraisal and consultation; and farming.

CURRICULUM IN AGRICULTURAL ENGINEERING

FRESHMAN		SOPHOMORE	
	Hours		Hours
Engineering Drawing (A.E. 4, 5)	6	Surveying (A.E. 11)	5
Descriptive Geometry (A.E. 8)	3	Engineering Shop (A.E. 2)	3
Inorganic Chemistry (Chem. 21, 22)	10	Field Crop Prod. (Agron. 1)	5
Composition (Engl. 2xy)	10	Prin. of Soil Man. (Agron. 10)	5
College Algebra (Math. 101x)	5	Composition (Engl. 6)	5
Trigonometry (Math. 101y)	5	Calculus (Math. 354, 355)	10
Analytic Geometry (Math. 110)	5	Physics (Phys. 27, 28, 329)	15
Physics Survey (Phys. 20)	5	Military Science (Mil. Sci. 2), or Air Science (Air Sci. 6)	5
Botany (Bot. 21)	5	Physical Education (Phys. Ed. 2)	0
Military Science (Mil. Sci. 1), or Air Science (Air Sci. 5)	5		
Physical Education (Phys. Ed. 1)	0		
	59		53
JUNIOR		SENIOR	
	Hours		Hours
Mechanics (A.E. 250)	5	Farm Motors (A.E. 262)	5
Mechanics (A.E. 251)	5	Farm Structures (A.E. 271)	5
Materials of Const. (A.E. 253)	5	San. and Water Supply (A.E. 272)	2
Strength of Materials (A.E. 255)	5	Farm Machinery (A.E. 261)	5
Hydraulics (A.E. 256)	5	A. C. Machinery (A.E. 286)	5
D. C. Machinery (A.E. 284)	3	Rural Electrification (A.E. 288)	4
Heat Engineering (A.E. 270)	5	Agr'l. Eng'r. Concentration (A.E. 329, 369, 379, or 389)	3
Soil and Water Cons. (A.E. 222)	3	Livestock Prod. (A.H. 371) or Farm Dairying (Dairy 391)	5
Drainage and Irrig. (A.E. 224)	3	Farm Org. and Man. (Ag. Ec. 301) or Marketing Farm Prod. (Ag. Ec. 304)	5
Non-technical electives	11	Non-technical Electives	9
	50		48

Total requirements, 200 hours, exclusive of the required courses in Military Science 1-2 or Air Science 5-6 and Physical Education 1-2.

CONCENTRATION OPTIONS

DESIGN OF HYDRAULIC STRUCTURES, A.E. 329	3 Hours
MACHINE DESIGN, A.E. 369	3 Hours
STRUCTURAL DESIGN, A.E. 379	3 Hours
ADVANCED RURAL ELECTRIFICATION, A.E. 389	3 Hours

AGRICULTURAL ENGINEERING

2. ENGINEERING SHOP. 3 hours. Two three-hour laboratory periods only. Prerequisite: Agricultural Engineering 8. *Mr. Harris* and *Mr. Lyday*. Machine tool work, oxy-acetylene and electric welding, carpentry. For B.S.A.E. students only.

4-5. ENGINEERING DRAWING. 6 hours (3 hours a quarter). Three laboratory periods only. *Mr. Cross*.

Use of drawing instruments, lettering, detailing, orthographic and pictorial methods of presentation.

6. TOPOGRAPHY DRAWING. 3 hours. Two three-hour laboratory periods only. *Mr. Cross.*

Use of drawing instruments, lettering, sketching, symbols, charts, contours, topographic maps. For B.S.A. and B.S.F. students.

8. DESCRIPTIVE GEOMETRY. 3 hours. Three laboratory periods only. Prerequisite: Agricultural Engineering 5. *Mr. Cross.*

Representation of geometrical magnitudes by means of points, lines, planes, and solids and their application in the solution of problems.

11. SURVEYING. Three laboratory periods. Prerequisite: Trigonometry. The use, care, and adjustment of surveying instruments and equipment. Field problems in leveling, land measuring, and topographic surveying.

20. SOIL AND WATER CONSERVATION. 3 hours. One laboratory periods. *Mr. Cobb.*

Principles and methods of soil and water conservation with special emphasis given to terracing and gully control. For B.S.A. students.

61. AGRICULTURAL MACHINES. 3 hours. One laboratory period. *Mr. Rice.* Selection, operation, care, and economic application of crop production, harvesting, and processing machinery. For B.S.A. students.

62. GAS ENGINES AND TRACTORS. 3 hours. One laboratory. *Mr. Rice.* Principles of operation, maintenance, repair, and application of gas engines and tractors. For B.S.A. students.

70. FARM BUILDINGS AND EQUIPMENT. 3 hours. *Mr. Hudson and Mr. Cross.* A study of farm buildings and equipment with special regard to livestock requirements, economy, convenience, sanitation, and materials. For B.S.A. students.

203. FARM SHOP. 6 hours. Four three-hour laboratory periods only. Prerequisites: Chemistry 24. *Mr. Harris and Mr. Lyday.*

Farm construction methods—carpentry, concrete, soldering, blacksmithing, welding, pipe fitting, and repair of farm machinery. For Agricultural Education majors.

207. ADVANCED FARM SHOP. 3 hours. Prerequisite: Agricultural Engineering 203. *Mr. Harris.*

Organization, management, equipment, facilities, and techniques for conducting classes in farm shop. For Agricultural Education majors.

222. SOIL AND WATER CONSERVATION. 3 hours. One laboratory period. Prerequisite: Agricultural Engineering 256. *Mr. Cobb.* Engineering aspects of soil erosion and its control.

224. DRAINAGE AND IRRIGATION. 3 hours. One laboratory period. Prerequisite: Agricultural Engineering 256. *Mr. Cobb.*

Principles, methods, hydrologic data, flood control, land preparation, application and duty of water.

226. CONSERVATION PRACTICES. 3 hours. One laboratory period. Prerequisite: Agricultural Engineering 20. *Mr. Danner.*

The planning and design of water disposal systems and the study of recent experiment station results as applied to conservation farming. For Soil Conservation majors.

250-251. MECHANICS. 10 hours (5 hours a quarter). Prerequisite: Physics 27. *Mr. Brown.*

The statics and dynamics of engineering.

253. MATERIALS OF CONSTRUCTION. Prerequisite: Agricultural Engineering 250. *Mr. Hudson.*

Manufacture, properties, uses, and application of materials for engineering construction.

255. STRENGTH OF MATERIALS. Prerequisite: Agricultural Engineering 251. *Mr. Hudson.*

Elements of stress analysis, resistance, and design as applied to engineering materials and structures.

256. HYDRAULICS. Prerequisite: Calculus. *Mr. Cobb.*

Fundamental principles of hydrostatics and hydrodynamics applied to the flow of water through orifices, over weirs, through pipes and channels.

261. FARM MACHINERY. One laboratory period. Prerequisite: Physics 27. *Mr. Rice.*

Development, design, and utilization of farm machinery for all forms of farm power.

262. FARM MOTORS. One laboratory period. Prerequisite: Agricultural Engineering 270. *Mr. Rice.*

Thermodynamic principles, design, operation, rating, testing, and application of tractors, trucks, and engines for agricultural uses.

270. HEAT ENGINEERING. Prerequisites: Calculus and Physics 28. *Mr. Hudson.*

Fundamental principles of engineering thermodynamics, heat transfer, heating, ventilation, and refrigeration.

271. FARM STRUCTURES. Three laboratory periods. Prerequisites: Agricultural Engineering 253 and 255. *Mr. Hudson.*

Design, details of construction, valuation and appraisal, specifications, bills of materials, and cost estimates.

272. FARM SANITATION AND WATER SUPPLY. 2 hours. Prerequisite: Agricultural Engineering 256. *Mr. Hudson.*

Development, storage, distribution, and purification of rural water supplies, and the collection and disposal of farm and rural wastes.

280. FARM ELECTRIFICATION. 3 hours. Prerequisite: Physics 20. *Mr. Kinard.*

Application of fundamental physical principles in farm wiring and in the use of electrical power and equipment for farm operations. For B.S.A. students.

284. DIRECT CURRENT MACHINERY. 3 hours. One three-hour laboratory period. Prerequisite: Physics 329. *Mr. Brown.*

A study of the laws and phenomena of electricity and their applications to motors, generators, transformers, distribution, and utilization.

286. ALTERNATING CURRENT MACHINERY. One three-hour laboratory period. Prerequisite: Agricultural Engineering 284. *Mr. Brown.*

Principles of design, construction, and operation of alternating current machines.

288. RURAL ELECTRIFICATION. 4 hours. One laboratory period. Prerequisite: Agricultural Engineering 286. *Mr. Kinard.*

A study of the problems involved in the distribution and application of electricity to agriculture.

329. DESIGN OF HYDRAULIC STRUCTURES. One laboratory period. Prerequisites: Agricultural Engineering 222 and 256. *Mr. Danner.*

The study and design of erosion control structures.

369. MACHINE DESIGN. 3 hours. One laboratory period. Prerequisites: Agricultural Engineering 253, 261, and 262. *Mr. Rice.*

An advanced course in the analysis and design of agricultural implements and power units.

379. STRUCTURAL DESIGN. 3 hours. Two laboratory periods. Prerequisites: Agricultural Engineering 255 and 271. *Mr. Hudson.*

Structural theory and design of wood, masonry, concrete, and steel construction.

389. ADVANCED RURAL ELECTRIFICATION. 3 hours. One laboratory period. Prerequisite: Agricultural Engineering 288. *Mr. Kinard.*

An advanced course in the application of electric power to farm development and to the processing of farm products.

GRADUATE COURSES

601. AGRICULTURAL ENGINEERING APPLICATIONS. Prerequisites: Agricultural Engineering 203 and Education 336, or Plant Pathology 353 and Animal Husbandry 382, or equivalent. *Mr. Harris.*

The application of engineering techniques to agricultural production and utilization practices.

602. ADVANCED ENGINEERING APPLICATIONS. Prerequisite: Agricultural Engineering 601. *Mr. Harris.*

Implementation and continuation of farm shop improvement plans developed in Agricultural Engineering 601. At least 40 hours will be devoted to group meetings dealing with improvement practices. The remainder of time will be devoted to improvement of the registrants' shop under direct supervision of the instructor.

804. SPECIAL ELECTRICAL PROBLEMS. Prerequisite: Agricultural Engineering 288, or equivalent. *Mr. Kinard* and *Mr. Brown.*

Formation and solution of theoretical problems connected with electrical circuits, apparatus, machines, or systems.

805. FARM STRUCTURES. Prerequisites: Agricultural Engineering 271 and 272, or equivalent. *Mr. Hudson.*

Problems in farm structures, water supply, sanitation, heating, lighting, ventilation, and home equipment.

806. FARM POWER AND MACHINERY. Prerequisites: Agricultural Engineering 261 and 262, or equivalent. *Mr. Driftmier and Mr. Rice.*

Problems in design, testing and determining efficiency of farm implements and machines; power problems in application, efficiency, and economy.

807. SOIL AND WATER CONSERVATION. Prerequisites: Agricultural Engineering 222, 224, and 256, or equivalent. *Mr. Danner.*

Studies of water control through drainage; the conservation of soils by the control of soil erosion; land clearing.

808. AGRICULTURAL ENGINEERING RESEARCH. 20 hours. Prerequisite: B.S. Degree in Agricultural Engineering; offered when demand warrants by authorized members of the Agricultural Engineering Staff.

Original investigation of an approved problem in some phase of agricultural engineering, farm power and machinery, rural electrification, farm structures and utilities, soil and water conservation, or processing of farm products.

840. EXPERIMENTAL ENGINEERING. Prerequisites: Agricultural Engineering 286 and Physics 329 or equivalent. *Mr. Driftmier and the Staff.*

Organization, planning, and execution of engineering research. Construction, adjustment, application, and use of measuring instruments and devices.

930. THESIS. 5 to 50 hours.

DEPARTMENT OF LANDSCAPE ARCHITECTURE

(Landscape Architecture Building, North Campus)

Landscape Architecture is defined as the art of arranging land and the objects upon it for human use and enjoyment. The curriculum in landscape architecture is a practical program based on the requirements in professional education of the American Society of Landscape Architects leading to the degree of Bachelor of Landscape Architecture.

A series of formal and naturalistic developments, known as the Founders Memorial Garden, surround the Landscape Architecture Building. This affords excellent laboratory facilities for the students.

The University of Georgia is especially well suited for teaching landscape architecture because of the wide variety of available plant material, a long growing season, and its accessibility to numerous landscape and architectural developments in the Southeast.

TRIPS

A trip of a week's extent will be taken on alternate years by freshman and sophomore landscape architecture majors to Flat Rock and Asheville, N. C., Smoky Mountains National Park, and to Thomasville, Georgia, and points in Florida for purpose of study and observation. Week-end trips will be made to Augusta, Atlanta, and LaGrange, Georgia, and to Aiken and Charleston, South Carolina. Each trip is made at the expense of the student. The cost is \$25 for the Fall trip and \$25 for the Spring trip.

PROGRAMS OF INSTRUCTION

1. GENERAL PROGRAM IN LANDSCAPE ARCHITECTURE. This program, leading to the degree of Bachelor of Landscape Architecture, is intended to fit students for the professional practice of landscape architecture.

2. PROGRAM IN RECREATIONAL PLANNING. This is a program leading to the degree of Bachelor of Science in Landscape Architecture devoted particularly to the design and management of large recreational areas and forest preserves. Following the close of the junior year a summer camp covering a period of ten weeks is required as a prerequisite for graduation.

3. PROGRAM IN GARDEN DESIGN. This program for the degree of Bachelor of Science in Landscape Architecture is set up to give intensive study of the problems of design, management, and maintenance of flower gardens, home grounds, and estates.

THE FOLLOWING CORE CURRICULUM IS REQUIRED OF ALL STUDENTS MAJORING IN LANDSCAPE ARCHITECTURE:

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2 x-y	10	English 22x	5
Math. 101y	5	Botany 21-22	10
Land. Arch. 55, 56	10	Art 221 or 241	5
Land. Arch. 72	5	Land. Arch. 12-13-14	15
Physical Science 1-2	10	Agricultural Engineering 11.....	5
Art 20	5	Land. Arch. 102	5
Land. Arch. 101	5	Military Science 2 or Air Science 6 5	
Military Science 1 or Air Science 5 5		Physical Education 2 (for men)	
Physical Education 1 (for men)		or	
or		Physical Education 2 (for women) 5	
Physical Education (for women)....	5		
	55		50

BACHELOR OF LANDSCAPE ARCHITECTURE

1. GENERAL PROGRAM

JUNIOR		SENIOR	
	Hours		Hours
Land. Arch. 315-316-317	15	Land. Arch. 318-319-355	15
Land. Arch. 303	5	Land. Arch. 354	5
Horticulture 1	5	Land. Arch. 360	5
Land. Arch. 350-358	10	Land. Arch. 357	5
Land. Arch. 351-352	10	Land. Arch. 353	5
		Art 241 or 221	5
		Land. Arch. 340	3
	45		43
SUMMER TERM		FIELD TRIPS	
History 110 x-y	10	4 at ½ hr. each	2
Political Science 1	5		
PRACTICAL EXPERIENCE			
1 summer	1		

BACHELOR OF SCIENCE IN LANDSCAPE ARCHITECTURE

2. RECREATIONAL PLANNING

JUNIOR		SENIOR	
	Hours		Hours
History 110 x-y	10	Land. Arch. 351-352	10
Political Science 1	5	Land. Arch. 353	5
Forestry 83-84	6	Land. Arch. 354	5
Forestry 356	3	Land. Arch. 355	5
Land. Arch. 315-316-317	15	Land. Arch. 357	5
Land. Arch. 350	5	Land. Arch. 358	5
		Land. Arch. 390	5
	44		40
FIELD TRIPS		SUMMER CAMP	
4 at ½ hr. each	2	Forestry 30	15

313 a-b. LANDSCAPE DESIGN. Three laboratory periods per quarter. 313a prerequisite to 313b. *Mr. Barton.*

This course is the same as 313.

315. INTERMEDIATE LANDSCAPE DESIGN. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 12. *Mr. Wigginton* and *Mr. Taylor.*

Application of design theory to residential properties. Original problems in design, rendering, and model making.

316. INTERMEDIATE LANDSCAPE DESIGN. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 315. *Mr. Owens* and *Mr. Taylor.*

Solution of original problems in public and semi-public properties and recreational facilities.

317. INTERMEDIATE LANDSCAPE DESIGN. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 316. *Mr. Wigginton.*

Solution of original problems in public and semi-public properties such as cemeteries, school grounds, subdivisions and golf courses.

318. ADVANCED LANDSCAPE DESIGN. Four laboratory periods and one lecture. Prerequisite: Landscape Architecture 317. *Mr. Wigginton.*

A continuation of intermediate landscape design involving complex problems.

319. ADVANCED LANDSCAPE DESIGN. Five laboratory periods.

A continuation of Landscape Architecture 318 with original design problems in large landscape developments.

321. THE MAINTENANCE OF ORNAMENTAL PLANTINGS AND LANDSCAPE MANAGEMENT. (Horticulture). 3 hours. Prerequisite: Horticulture 1. *Mr. Bowden* and *Mr. Wigginton.*

Formulation and study of a work program which considers those essential operations contributing to the successful landscape management of grounds. Methods of maintaining lawns, hedges, perennial and annual beds and borders, walks, pools, trees, specimen plants and other ornamental plantings.

340. PROFESSIONAL PRACTICE IN LANDSCAPE ARCHITECTURE. 3 hours. Three lectures. *Mr. Owens.*

Professional practice and ethics; contracts, reports and specifications.

350. LANDSCAPE CONSTRUCTION. *Mr. Wigginton.*

Design of construction problems, master plans and details, and estimating quantities.

351. PLANT MATERIALS. *Mr. Owens.*

A study of plant materials used in landscape architecture, dealing with trees and shrubs.

352. PLANT MATERIALS. Three laboratory periods. *Mr. Owens.*

A study of plant materials used in landscape architecture, dealing with flowers, perennials, and grasses.

353. CITY PLANNING. Three laboratory periods and two lectures. *Mr. Taylor.*

Background course in city planning, covering the history and bibliography of the subject, and introducing the student to modern trends in planning. Designed as a foundation for further study of professional planning, the course is also an elective intended to provide the layman with an informed understanding of civic problems.

354. PLANTING DESIGN. Five lecture or laboratory periods. Prerequisites: Landscape Architecture 317, 351, and 352. *Mr. Owens.*

Deals with problems which aim to train the student to produce with plants and other landscape materials practical and aesthetically effective results.

355. LANDSCAPE THESIS. Five lecture or laboratory periods. Prerequisite: Landscape Architecture 353. *Mr. Owens* and *Staff.*

A problem in designing a property will be assigned; completed plans including general plan, staking and grading plans, construction and planting plans. Specifications and estimates will be required. This course will serve as a comprehensive examination.

357. LANDSCAPE ENGINEERING. Four laboratory periods and one lecture. Prerequisites: Mathematics 101y, Agricultural Engineering 11, or equivalent.

Design, construction, and mathematical alignment of driveways and park roads; calculation of quantities.

358. ELEMENTARY CONSTRUCTION. *Mr. Wigginton.*

Materials of landscape construction, their characteristics and uses; elementary grading plans and simple construction details.

360. HISTORY OF ARCHITECTURE. Four lectures and one laboratory period. *Mr. Taylor.*

Egyptian, Greek, Roman, Byzantine, Romanesque, Gothic, Renaissance, Tudor, Georgian, Early American, and Modern Architecture, with special emphasis on domestic architecture and on those styles which have been most popular in America for residences and public buildings.

364. PLANTING DESIGN. One lecture and four laboratory periods. Prerequisite: Landscape Architecture 354. *Mr. Owens.*

A continuation of Landscape Architecture 354. Emphasis is placed on the design and planting of perennial gardens.

370. HISTORY AND APPRECIATION OF LANDSCAPE ARCHITECTURE. Five lectures. Especially designed as an elective for students not majoring in landscape architecture. *Mr. Owens.*

A study of the elements of landscape architecture. The course deals with the history of gardening, with particular attention devoted to its development in the South, and the application of landscape design to outdoor areas, including the small home, park, cemetery, farmstead, estate, etc.

381. RECREATIONAL LAND USE. 3 hours. Three lecture periods.

A study of the historical, economic, and social background of the recreational use of land with special reference to forest and park areas.

390. PROBLEMS IN RECREATIONAL PLANNING. Four laboratories and one lecture.

The study and formulation of master, project, and unit recreational plans; the design and construction of details relating thereto.

THE GEORGE FOSTER PEABODY SCHOOL OF FORESTRY

DONALD JAMES WEDDELL, B.S.F., M.S., *Dean.*

MADLINE FAMBROUGH STEWART, *Secretary.*

GEORGE NORMAN BISHOP, B.S.F., M.S.F., *Professor of Forest Protection.*

EUGENE THOMAS FARIS, B.S.F., *Associate Forester, Georgia Experiment Station.*

BISHOP FRANKLIN GRANT, B.S.F., M.S.F., *Professor of Forest Utilization and Director of the Summer Camp.*

JOHN ROBERT HAMILTON, B.S.F., M.S.F., *Associate Forester, Georgia Experiment Station.*

LEON ABRAHAM HARGREAVES, JR., B.S.F., M.S.F., *Instructor in Forestry.*

LYLE WENDELL REDVERSE JACKSON, B.S.F., M.S., Ph.D., *Professor of Silviculture.*

JAMES HOBART JENKINS, B.Sc., M.Sc., *Visiting Instructor in Forestry.*

ARCHIE EDGAR PATTERSON, B.S., M.S., *Professor of Forest Management.*

DONALD JAMES WEDDELL, B.S.F., M.S., *Professor of Forestry and Dean of the School of Forestry.*

ALBERT CADWALLADER WORRELL, B.S.F., M.F., *Assistant Professor of Forest Mensuration.*

ASSOCIATE FACULTY

WILLIAM ANDREW CAMPBELL, B.S., A.M., Ph.D., *Research Associate in Forest Pathology and U. S. Department of Agriculture Pathologist.*

WILBUR HOWARD DUNCAN, A.B., M.A., Ph.D., *Associate Professor of Botany.*

LELAND OVERBY DREW, B.S.A.E., M.S., *Assistant Professor of Agricultural Engineering and Instructor in Forest Surveying.*

HORACE ODIN LUND, A.B., M.S., Ph.D., *Professor of Entomology and Instructor in Forest Entomology.*

HAROLD DONALD MORRIS, B.S., M.S., Ph.D., *Associate Professor of Agronomy and Instructor in Forest Soils.*

MERLE CHARLES PRUNTY, JR., B.S.Ed., A.B., A.M., Ph.D., *Professor of Geography and Head of the Department of Geography and Geology.*

GEORGE EDWARD THOMPSON, B.S.A., M.A., Ph.D., *Associate Professor of Plant Pathology.*

BRATISLAV ZAK, B.S., *Research Associate in Forest Pathology and U. S. Department of Agriculture Junior Pathologist.*

OMER CLYDE ADERHOLD, B.S.A., M.S.A., Ph.D., *President of the University.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Dean of Faculties.*

JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Dean of Student Affairs.*

WALTER NEWMAN, DANNER, JR., B.S.A.E., M.S.A., *Registrar and Director of Admissions.*

JOHN DIXON BOLTON, C.P.A., *Comptroller and Treasurer.*

SCHOOL OF FORESTRY INFORMATION

HISTORY

The School of Forestry was originally established early in 1906 through the interest and generosity of Mr. George Foster Peabody, who endowed the School for a three-year period. In recognition of this gift the Board of Trustees named the School in his honor. In 1908 the School became a division of the College of Agriculture. By action of the Board of Regents of the University System in June, 1935, the School was reestablished and again became the George Foster Peabody School of Forestry.

BUILDINGS, EQUIPMENT, AND FOREST PROPERTIES

The School is ideally located for its important role as a regional school. It is located close to two diverse land areas, different in soil, in tree and other vegetational cover, in logging methods, and in the marketing of forest products. It is located in an area different from either of the other two areas, but still close enough so that day trips to these areas are feasible and may be made as needed in teaching the students.

The School is housed in its own new, modern building. The three-storied main building contains classrooms, general and research laboratories, a library containing 15,000 volumes and a reading room with the latest forestry periodicals available, a large auditorium, photographic darkroom, and offices. Two large wings attached to the main building, contain a small saw-mill, edger, a naval stores gum cleaning plant and pilot still.

Ample surveying, mapping, cruising, and other forestry equipment is owned by the School. A considerable number of pieces of equipment needed for research work have recently been purchased.

The forest properties owned by the University are managed by the School of Forestry. Two of these are located on land adjacent to the campus. The Oconee Forest, a typical Piedmont forest area of 120 acres, is used for laboratory work in silviculture, mensuration, and utilization. The Denmark Forest of 145 acres, adjoining the Oconee Forest, is used for experimental work in forest plantings. Whitehall Forest, located approximately five miles from the campus and comprising some 750 acres, was deeded to the University by the Resettlement Administration. A series of planting demonstrations has been established on this forest, and an arboretum is being developed. The United States Department of Agriculture, Division of Forest Pathology, has established a number of research plantings on this area. The Watson Springs Forest, given to the University by Colonel J. D. Watson, is located in Greene County, about 25 miles from Athens. This forest contains some 600 acres. The Hardman Memorial Forest of 500 acres is located 12 miles north of Athens in Jackson County and was deeded to the University as a memorial to the late Governor Hardman. Problems in planting and in the study of species not commonly planted are being carried out on this forest.

CONCENTRATION IN WILDLIFE MANAGEMENT

A concentration in the field of Wildlife Management is offered for the first time during the year 1951-52. This program, leading to the degree of Bachelor of Science in Forestry, Major in Wildlife Management, will give the student the necessary training in wildlife management as well as the fundamental work in forestry.

COOPERATING AGENCIES

A field station of the Division of Forest Pathology of the United States Bureau of Plant Industry is maintained at the School of Forestry. The Staff members of this division are working on the causes, prevention, and possible

cures for various tree diseases, especially those affecting this section of the country.

A branch station of the Southeastern Forest Experiment Station, formerly located at the School of Forestry, but now with headquarters at Macon, works in cooperation with the School. This station, designated as the Southern Piedmont Branch, is studying various silvicultural, management, and economic forestry problems pertaining to the Piedmont region of the South. Several technically trained foresters are working on these problems.

FIELD WORK IN FORESTRY

Field work is a very important phase of a well-rounded forestry education. In addition to field laboratories in connection with the various courses taught at the University, several field trips to other sections of the state are required. Also as a part of the regular program of work a camp is held during the summer quarter following the sophomore year.

DEGREES OFFERED BY SCHOOL OF FORESTRY

The School of Forestry offers the degrees of Bachelor of Science in Forestry and the Bachelor of Science in Forestry, Major in Wildlife Management. Through the Graduate School the degrees of Master of Science in Forestry and Master of Forestry are offered.

Students planning to major in Forestry should enter at the beginning of the freshman year, or not later than the beginning of the sophomore year. Because the courses are highly specialized, students entering as juniors have difficulty completing degree requirements in less than three additional years.

SPECIAL SCHOLARSHIP REQUIREMENTS

In addition to the general University requirements relative to scholarship, the following requirement must be met by all Forestry students:

"Any student registered in the junior and senior class of the School of Forestry who, at the end of the school year, does not have a weighted average of 70 or more in all work taken since entering the School of Forestry, will not be entitled to continue in attendance in the School except by special permission of the forestry faculty. Such permission will be granted only in exceptional cases."

At least a grade of C must be earned, by School of Forestry students, in all required *forestry courses* and approved substitutes, before credit for the course will be given toward graduation.

FEES AND EXPENSES

Certain courses require breakage deposits varying from \$10 to \$25 per year. The amount necessary for books will vary from \$15 to \$30 per year.

A camp fee of \$10 is required for Forestry 30 and for Forestry 413. Field trips will form a part of certain courses in the junior and senior years, and the expenses of these trips, usually about \$20, must be borne by the student.

ORGANIZATIONS

Xi Sigma Pi, the national honorary forestry fraternity, has an active chapter in the School of Forestry. The purpose of this fraternity is to honor those students who do outstanding scholastic work, to promote fraternal relations among earnest workers, and to work for the upbuilding of the profession of forestry.

Alpha Zeta, a national honorary fraternity in agricultural and allied fields, is open to students in the School of Forestry.

The Forestry Club, open to all students in the School, sponsors biweekly programs of special interest to the student body. The club also sponsors the annual field day, the senior banquet, and the *Cypress Knee*, the Forestry School's annual publication.

SCHOLARSHIPS AND LOAN FUNDS

THE EARL JENKINS MEMORIAL AWARD is given to a member of the junior class in Forestry who excels in scholarship, character, and interest in forestry ideals. This award honors the memory of Earl Jenkins, class of 1942, who was killed in action in World War II, and is given by his sister.

THE XI SIGMA PI-FORESTRY CLUB AWARD, amounting to \$10, is given to the outstanding freshman.

THE DUPREE BARRETT LOAN FUND, given in memory of Dupree Barrett, for many years Extension Forester in Georgia, is open to junior or senior students in the School of Forestry.

REQUIREMENTS FOR GRADUATION

A total of 207 hours, in addition to Military or Air Science and Physical Education, is required for graduation in either of the curricula.

REQUIRED CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY

FRESHMAN YEAR		SOPHOMORE YEAR	
	Hours		Hours
English 2 x-y	10	Plant Pathology 354 (Forest Pathology)	5
Math 101 x-y (Algebra and Trigonometry)	10	Chemistry 21-22 (Inorganic)	10
Geography 121	5	Forestry 83 (Dendrology)	3
Ag. Engineering 6 (Topographic Drawing)	3	Forestry 84 (Dendrology)	3
Political Science 1	5	Agronomy 7 (Forest Soils)	5
Botany 21-22 (General Botany)	10	Ag. Engineering 11 (Surveying)	5
Physics 20	5	Botany 375 (Ecology)	5
Forestry 20 (Introductory Forestry)	1	Economics 5x (Economics)	5
Military Science 1 or Air Science	5	Elective	5
Physical Education 1	0	Military Science 2 or Air Science	6
		Physical Education 2	0
	51		54

SUMMER CAMP

	Hours
Forestry 30 (Summer Camp)	15

JUNIOR YEAR

	Hours
Zoology 375 (Forest Insects)	5
Forestry 307 (Protection)	3
Forestry 340-341 (Mensuration)	6
Forestry 356 (Silvics)	5
Forestry 357 (Practice of Silviculture)	5
Forestry 358 (Reforestation Practices)	3
Forestry 359 (Regional Silviculture)	3
Forestry 370 (Wood Anatomy)	3
Forestry 371 (Forest Products)	3
Forestry 390 (Forest Finance)	3
Forestry 391 (Forest Economics)	3
Electives	8

SENIOR YEAR

	Hours
Forestry 310 (Informational Methods in Forestry).....	3
Forestry 320 (Forest Range Management)	3
Forestry 342 (Mensuration)	3
Forestry 377 (Logging)	3
Forestry 378 (Lumbering)	3
Forestry 404 (Forest Improvements)	3
Forestry 405 (Naval Stores)	3
Forestry 406 (Utilization Field Trip)	3
Forestry 410 (Forest Policy)	3
Forestry 411, 412, 413 (Forest Management)	12
Electives	8
	47

REQUIRED CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY, MAJOR IN WILDLIFE MANAGEMENT

FRESHMAN YEAR		SOPHOMORE YEAR	
	Hours		Hours
English 2 x-y	10	Chemistry 21-22 (Inorganic).....	10
Math 101 x-y (Algebra and Trigonometry)	10	Forestry 83 (Dendrology)	3
Geography 121	5	Forestry 84 (Dendrology)	3
Ag. Engineering 6 (Topographic Drawing)	3	Agronomy 7 (Forest Soils).....	5
Political Science 1	5	Ag. Engineering 11 (Surveying)....	5
Botany 21-22 (General Botany).....	10	Botany 375 (Ecology)	5
Physics 20	5	Economics 5x (Economics).....	5
Forestry 20 (Introductory Forestry)	1	Gen. Zoology 25-26	10
Military Science 1 or Air Science 5	5	Military Science 2 or Air Science 6	5
Physical Education 1	0	Physical Education 2	0
	54		51

SUMMER CAMP

	Hours
Forestry 30 (Summer Camp)	15

JUNIOR YEAR

	Hours
Forestry 307 (Protection)	3
Forestry 340-341 (Mensuration)	6
Zoology 353 (Animal Ecology)	5
Forestry 356 (Silvics)	5
Forestry 357 (Practice of Silviculture)	5
Forestry 370 (Wood Anatomy)	3
Zoology 375 (Forest Insects)	5
Zoology 381 (Ornithology) or	5
Zoology 402 (Mammalogy)	(5)
Forestry 390 (Forest Finance)	3
Electives	10
	50

(Suggested electives: Field Botany; Reforestation Practices; Mammalogy or Ornithology).

SENIOR YEAR

	Hours
Forestry 310 (Informational Methods in Forestry).....	3
Forestry 320 (Range Management)	3
Forestry 371 (Forest Products)	3
Forestry 377 (Logging)	3
Forestry 385 (Game Management)	3
Forestry 386 (Wildlife Management Techniques)	3
Forestry 391 (Forest Economics)	3
Forestry 404 (Improvements)	3
Forestry 405 (Naval Stores)	3
Forestry 411-412-413 (Management)	12
Electives	8
	47

Suggested electives: Forestry 378 (Lumbering); Forestry 342 (Mensuration).

COURSES OFFERED IN SCHOOL OF FORESTRY

(Unless otherwise indicated, all classes meet in the Forestry Building.)

The University reserves the right to withdraw any course for which the registration is not sufficient and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated, all courses will meet five hours a week and carry five hours credit.

2. FARM FORESTRY. 3 hours. *Mr. Hargreaves.*

A general course for agricultural and vocational agricultural students dealing with forestry from the farmer's standpoint.

20. INTRODUCTORY FORESTRY. 1 hour. *Mr. Weddell.*

An introductory course designed to acquaint the forestry student with the field of forestry.

30. SUMMER CAMP. 15 hours. The summer quarter following the sophomore year. Eight hours a day. Prerequisite: Agricultural Engineering 11 and Forestry 83-84. Fee \$10. *The Camp Staff.*

Field practice in general forestry. Emphasis will be placed on surveying, mensuration, and type mapping.

83. REGIONAL DENDROLOGY. 3 hours. One lecture and two laboratory periods. Prerequisites: Botany 21-22. *Mr. Hargreaves.*

A course dealing with the identification, classification, silvical requirements and distribution of the more important forest trees of the hardwood (Angiosperms) group.

84. REGIONAL DENDROLOGY. 3 hours. One lecture and two laboratory periods. Prerequisites: Botany 21-22. *Mr. Bishop.*

A course dealing with the identification, classification, silvical requirements and distribution of the more important forest trees of the coniferous (Gymnosperms) group.

303. DRY KILNING AND WOOD PRESERVATION. 3 hours. Prerequisite: Forestry 371. *Mr. Grant.*

The air drying, kiln drying, and preservative treatment of timber.

307. FOREST FIRE PROTECTION. 3 hours. Prerequisite: Forest 356. *Mr. Bishop.*

A study of the causes, effects and methods for controlling wild forest fires and of the use of controlled fire in managing a forest property.

310. INFORMATIONAL METHODS IN FORESTRY. 3 hours. Prerequisites: Forestry 307 and Forestry 359. *Mr. Bishop.*

The various means and procedures for disseminating technical and non-technical forestry information to the public.

320. FOREST RANGE MANAGEMENT. 3 hours. Prerequisites: Botany 22 and Forestry 356. *Mr. Jackson.*

A study of the principles of forest range management involving the use of forest forage as a resource; the improvement of forest range; study of forest range plants.

330. FORESTRY PROBLEMS. *The Staff.*

Class or individual instruction and guidance. Assigned or selected problems in the field of forestry. A complete report of work will be required.

340. FOREST MENSURATION. 3 hours. Three 2-hour laboratory-lecture periods. Prerequisites: Mathematics 101y and Agricultural Engineering 11. *Mr. Hargreaves.*

Measurement of forest products; determination of volume in the tree and in the stand; growth and yield of trees and stands.

341. FOREST MENSURATION. 3 hours. Prerequisite: Forestry 340. *Mr. Worrell.*

Determination of standards for the collection of forest data; sampling methods in forestry.

342. FOREST MENSURATION. 3 hours. Three 2-hour laboratory-lecture periods. Prerequisite: Forestry 341. *Mr. Worrell.*

Graphic analysis in forestry; construction of volume and yield tables; growth and yield prediction.

356. SILVICS. 5 hours. Prerequisites: Botany 21-22 and Forestry 83-84. *Mr. Jackson.*

Fundamental principles of forest physiology and ecology; the effects of various factors of site upon the characteristics, growth and development of trees and stands; forest classification.

357. PRACTICE OF SILVICULTURE. Three lectures and two laboratory periods. Prerequisite: Forestry 356. *Mr. Jackson.*

Cultural treatment of the forest including intermediate cuttings, methods of securing natural reproduction, and planting.

358. REFORESTATION PRACTICES. 3 hours. One laboratory and two lecture periods. Prerequisite: Forestry 356. *Mr. Jackson.*

Nursery management; collection, extraction, testing, and storage of seed; planting methods.

359. REGIONAL SILVICULTURE. 3 hours. Prerequisites: Forestry 356, 357. *Mr. Jackson.*

The application of silvicultural methods in the various forest regions of the United States.

370. WOOD ANATOMY. 3 hours. Three laboratories. Prerequisites: Forestry 83-84. *Mr. Grant.*

Identification of woods by gross and minute structure. Structural features of wood.

371. FOREST PRODUCTS. 3 hours. Prerequisites: Forestry 370. *Mr. Grant.*
The preparation, manufacture and use of forest products other than lumber.

377. LOGGING. 3 hours. Prerequisite: Forestry 370. *Mr. Grant.*
Logging methods and transportation. Cost studies. Logging equipment.

378. LUMBER MANUFACTURE. 3 hours. Prerequisite: Forestry 370. *Mr. Grant.*

Methods of manufacture, re-manufacture, grading and distribution.

385. GAME MANAGEMENT. 3 hours. Prerequisite: Forestry 356 or Botany 375. *Mr. Jenkins.*

A general course dealing with game management and game management policy and administration; the relation of game management to forestry and forest management.

386. WILDLIFE MANAGEMENT TECHNIQUES. 3 hours. Prerequisites: Forestry 385 or Zoology 353. *Mr. Jenkins.*

Field and laboratory techniques in wildlife management. Emphasis is placed on techniques commonly required of professional wildlife workers.

390. FOREST FINANCE. 3 hours. Prerequisites: Economics 5x and Mathematics 101y. *Mr. Patterson.*

The financial aspects of forestry as a business enterprise; methods of determining the value of forest property; the rate earned by forest properties; the appraisal of stumpage values; the appraisal of damage; the taxation of forest lands.

391. FOREST ECONOMICS. 3 hours. Prerequisites: Economics 5x. *Mr. Worrell.*

The forest as a natural resource, its present extent and use; forest ownership; consumption, distribution and prices of forest products; social aspects of forestry; forest land use planning.

404. FOREST IMPROVEMENTS. 3 hours. Prerequisite: Forestry 307. *Mr. Patterson.*

The construction of forest improvements on a forest property and the administration of forest properties.

405. NAVAL STORES PRACTICE. 3 hours. Prerequisites: Forestry 357 and 370. *Mr. Bishop.*

Factors affecting the production of naval stores; the management of forests for naval stores production; the manufacturing and marketing of naval stores products.

406. UTILIZATION FIELD TRIP. 3 hours. Prerequisites: Forestry 370 and 378. *Mr. Bishop and Mr. Grant.*

A course designed to give student personal observations of the various phases of the production, manufacturing and use of forest products.

410. FOREST POLICY. 3 hours. *Mr. Weddell.*

The development of forest policies and activities of the federal and state governments. Open only to forestry students.

411. FOREST MANAGEMENT. 3 hours. Prerequisites: Forestry 341 and 357; Economics 5x. *Mr. Patterson.*

The organization of forests for management.

412. FOREST MANAGEMENT. 3 hours. Prerequisite: Forestry 411. *Mr. Patterson.*

The regulation of the cut of forests for sustained yield; the development of forest working plans.

413. FOREST MANAGEMENT. 6 hours. Prerequisite: Forestry 30, 307, 390, 406 and 411. *Mr. Patterson.*

The preparation of a working plan for forest property.

GRADUATE COURSES

801-802. ADVANCED SILVICULTURE. 10 hours. Prerequisites: Forestry 83, 84, 359. *Mr. Jackson or Mr. Weddell.*

An advanced course dealing with the various phases of silvics and silvicultural management. A specialized problem must be worked out during the year and a written report submitted upon completion of the work.

803-804. ADVANCED SILVICULTURE. 10 hours. Prerequisite: Forestry 802. *Mr. Jackson or Mr. Weddell.*

A continuation of Forestry 801-802, embodying comprehensive research in the field of silviculture. The courses 801-802-803-804 form a sequence, and a thesis must be submitted upon completion of the work.

811-812. ADVANCED DENDROLOGY. 10 hours. Prerequisites: Forestry 83, 84, 359. *Mr. Bishop.*

A detailed study of the taxonomy, range, and habitats of trees. The collection and mounting of herbarium specimens will constitute a part of the work.

821-822. ADVANCED UTILIZATION. 10 hours. Prerequisites: Forestry 371, 377, and 405, or equivalent. *Mr. Grant and Mr. Bishop.*

An advanced course dealing with the various phases of the production, manufacture, and use of forest products, including naval stores.

823-824. ADVANCED UTILIZATION. 10 hours. Prerequisite: Forestry 822. *Mr. Grant and Mr. Bishop.*

A continuation of Forestry 821-822.

831-832. ADVANCED FOREST MANAGEMENT. 10 hours. Prerequisites: Forestry 341 and 412. *Mr. Patterson.*

An advanced course dealing with the organization of forests; their regulation for sustained yield; and various mensurational and economic problems common to forest management.

833-834. ADVANCED FOREST MANAGEMENT. 10 hours. Prerequisites: Forestry 831-832. *Mr. Patterson.*

A continuation of Forestry 831-832.

845-846. ADVANCED FOREST ECONOMICS. 10 hours. Prerequisites: Economics 5x, Forestry 391 and 412. *Mr. Worrell.*

An advanced course dealing with the extent and use of forests; consumption trends; and marketing of forest products.

921. APPLIED FORESTRY PROBLEMS. Hours to be arranged. Minimum of 5 hours. Prerequisite: Bachelor of Science in Forestry or equivalent. *Mr. Weddell, Mr. Jackson, and Mr. Patterson.*

This course is designed to give the graduate student an opportunity to apply his knowledge to the study of forestry topics or problems. Instruction will be on the basis of individual guidance or, if the needs arise, class instruction. Each student will be required to prepare a complete written report of his study and present it for criticism before the assembled members of the class and School of Forestry faculty.

THE COLLEGE OF EDUCATION

THE FACULTY

JOHN ANDREW DOTSON, A.B., M.A., Ph.D., *Dean.*

JENNIE BEER, *Secretary.*

*IRA EDWARD AARON, A.B.J., M.Ed., *Assistant Professor of Education and Research Assistant, Bureau of Educational Studies and Field Services.*

KATHERINE DURHAM ADAMS, B.S., M.A., *Instructor in Health and Physical Education.*

LORENZO EUGENE ALLGOOD, B.S., M.Ed., *Instructor in Education and Critic Teacher in the Demonstration School.*

EULALA L. AMOS, B.S.Ed., M.A., *Assistant Professor of Art Education, Atlanta Area Teacher Education Service.*

ALIDA ARMSTRONG, B.S.H.E., *Instructor in Education and Critic Teacher in the Demonstration School.*

ALICE BEALL, B.S.H.E., M.S.H.E., *Associate Professor of Education in Home Economics.*

ERNESTINE BLEDSOE, A.B., M.Ed., *Assistant Professor of Education.*

JOSEPH CULLIE BLEDSOE, A.B.Ed., M.S.Ed., *Assistant Professor of Education and Research Assistant, Bureau of Educational Studies and Field Services.*

ARTHUR GIBBON BOVEE, Ph.B., *Certificat de l'Association Phonetique Internationale, Professor of the Teaching of French.*

FANNIE LEE BOYD, B.S.H.E., M.Ed., *Assistant Professor of Education in Home Economics.*

HARRY BRICKER, B.A., M.A., *Visiting Professor of Education and Member of Staff, Atlanta Area Teacher Education Service.*

KATHLEEN DRAKE BROADHURST, B.S.Ed., A.M.Ed., B.S. in L.S., *Assistant Professor of Education and Education Librarian.*

SIBYL BROWNE, A.B., B.S., M.A., *Associate Professor of Art Education, Atlanta Area Teacher Education Service.*

JAMES GARLIN BRYANT, B.S.A., M.Ed., *Assistant Professor of Agricultural Education.*

REBA BURNHAM, B.S.Ed., M.Ed., *Assistant Professor of Education.*

JAMES WALLACE BUTTS, JR., A.B., *Associate Professor of Health and Physical Education, Head Football Coach, and Director of Intercollegiate Athletics.*

JOHNNY V. COX, B.S.Ed., M.S.Ed., *Assistant Professor of Education.*

SADIE MENZIES CRAIG, B.L., B.S., M.A., *Instructor in Education and Critic Teacher in Science and Mathematics in the Demonstration School.*

WILLIAM THEO DALTON, B.S.Ed., M.Ed., Ph.D., *Professor of Education.*

*On leave.

- JAMES LEWIS DICKERSON, A.B., M.S.Ed., *Assistant Professor of Education.*
- INEZ DOLVIN, B.A., M.A., *Assistant Professor of Education and Member of the Staff, Atlanta Area Teacher Education Service.*
- JOHN ANDREW DOTSON, A.B., M.A., Ph.D., *Professor of Education and Dean of the College of Education.*
- AMON OCYRUS DUNCAN, B.S.A., M.S.Ed., *Associate Professor of Agricultural Education.*
- HILDA GUNTER DYCHES, B.S., *Instructor in Education and Critic Teacher in the Demonstration School.*
- DAVID LEWIS EARNEST, A.B., M.A., *Associate Professor Emeritus of Education.*
- DOROTHEA ANN EDWARDS, B.S.H.E., M.S.H.E., *Instructor in Education and Critic Teacher in the Demonstration School.*
- MAMIE MCREE ELLIOTT, A.B., M.A., *Instructor in Education and Critic Teacher in Elementary Education in the Demonstration School.*
- BRAMWELL W. C. GABRIELSEN, A.B., M.A., *Associate Professor of Health and Physical Education.*
- KARL CLAUDIUS GARRISON, B.S., M.S., Ph.D., *Professor of Education.*
- JAMES EDWARD GREENE, A.B., M.A., Ph.D., *Professor of Education and Head of the Division of Graduate Studies, College of Education.*
- ALVIN GROSSMAN, B.S., M.Ed., *Assistant Professor of Mental Health Education.*
- OVAL STANLEY HARRISON, B.S., M.A., Ed.D., *Professor of Industrial Arts.*
- WILLIAM LAWRENCE HITCHCOCK, B.S.A., M.Ed., *Assistant Professor of Education.*
- NEWTON C. HODGSON, B.A., M.A., *Visiting Professor of Education and Member of Staff, Atlanta Area Teacher Education Service.*
- CHARLES FRANKLIN HUDGINS, B.S.Ed., M.S.Ed., *Associate Professor of Education.*
- LILLIAN BROWN JOHNSON, A.B., *Instructor in Education and Critic Teacher in English and Social Studies in the Demonstration School.*
- EMILY JONES, A.B., M.A., *Instructor in Education and Critic Teacher in Elementary Education in the Demonstration School.*
- FLOYD JORDAN, A.B., M.A., Ph.D., *Professor of Education and Coordinator of the Atlanta Area Teacher Education Service.*
- JAMES RALPH JORDAN, B.S., *Assistant Professor of Health and Physical Education.*
- FRANK KALEY, B.S., M.A., *Instructor in Education and Critic Teacher in the Demonstration School.*
- EFFIE LOU KEASTER, B.A., M.Ed., *Associate Professor of Health and Physical Education.*
- WILLIAM BROWNING KING, B.S.Ed., M.Ed., *Assistant Professor of Education.*
- MARY REED KNAPP, B.S.H.E., *Instructor in Education and Critic Teacher in the Demonstration School.*

- HARBIN BAILEY LAWSON, B.S., M.S., *Assistant Professor of Health and Physical Education.*
- CLIFFORD GRAY LEWIS, B.S. in Phys. Ed., M.A., *Assistant Professor of Health and Physical Education.*
- *THOMAS WILKINSON MAHLER, A.B., M.A., *Assistant Professor of Education and Research Assistant in the Bureau of Educational Studies and Field Services.*
- LAURA POWERS MARBUT, B.A., M.A., *Instructor in Education and Critic Teacher in Science in the Demonstration School.*
- JOHN DAVIS MESSER, B.Ph., M.Ed., *Assistant Professor of Education and Principal of the Demonstration School.*
- CORA ANN MILLER, A.B., M.S., *Assistant Professor of Health and Physical Education.*
- HUGH MILTON MILLS, JR., B.S.Ed., M.S.Ed., *Assistant Professor of Education.*
- *FLORIDE MOORE, B.S.H.E., M.S., *Associate Professor of Teacher Education in Home Economics.*
- VAN CLEVE MORRIS, A.B., M.A., Ed.D., *Assistant Professor of Education and Research Assistant in Bureau of Educational Studies and Field Services.*
- RAY VERLIN NEAL, B.S.A., *Assistant Professor of Agricultural Education.*
- VICTOR CHALMERS NIX, B.S.Ed., *Instructor in Education and Critic Teacher in Industrial Arts in the Demonstration School.*
- ANNIE IDA OBENSHAIN, B.S., M.A., *Instructor in Education and Critic Teacher in Elementary Education in the Demonstration School.*
- GEORGE LIGON O'KELLEY, JR., B.S.Ed., M.S.Ed., *Assistant Professor of Agricultural Education.*
- JOHN MCFERRIN POLLOCK, B.S., B.A.A., M.S., *Assistant Professor of Industrial Arts.*
- EDWIN DAVIS PUSEY, A.B., M.A., LL.D., *Professor Emeritus of Education.*
- HORACE BONAR RITCHIE, A.B., M.A., *Professor of Education.*
- GERALD BURNS ROBINS, B.S.Ed., M.S.Ed., *Instructor in Distributive Education.*
- CHARLES MONROE ROSE, B.S.A., M.Ed., *Instructor in Education and Critic Teacher in Agricultural Education in the Demonstration School.*
- EILEEN RUSSELL, B.S., M.A., *Assistant Professor of Health and Physical Education.*
- LYNN SHUFELT, B.S., M.S., *Associate Professor of Education and Member of the Staff, Atlanta Area Teacher Education Service.*
- FLORENCE ALICE SIMPSON, A.B.Ed., M.A., *Instructor in Education and Critic Teacher in Mathematics in the Demonstration School.*
- CLIFFORD SINGLETON, A.B., M.S.Ed., *Instructor in Education and Critic Teacher in the Demonstration School.*
- STANTON JAMES SINGLETON, A.B.Ed., M.A., Ph.D., *Assistant Professor of Education.*

*On leave.

- CAROLYN REBECCA SMITH, A.B., B.S. in L.S., *Instructor in Education and Librarian in the Demonstration School.*
- DORA O. SMITH, B.S., *Instructor in Education and Critic Teacher in the Demonstration School.*
- DOYNE MUNCY SMITH, B.S., M.S., Ed.D., *Associate Professor of Education.*
- ERNEST BETHLEHAM SMITH, B.S., M.A., *Professor of Health and Physical Education, Head of the Department of Health and Physical Education for Men, and Chairman of the Division of Health and Physical Education.*
- JENNIE BELLE SMITH, B.M., *Supervisor of Music in the Demonstration School.*
- SARA ANN SMITH, B.S.H.E., *Instructor in Education in Home Economics.*
- MARY ELLA LUNDAY SOULE, A.B., M.A., *Professor of Health and Physical Education and Head of the Department of Health and Physical Education for Women.*
- MARY KATHERYNE STEPHENSON, B.S.Ed., *Instructor in Education and Critic Teacher in Elementary Education in the Demonstration School.*
- LURA BELLE STRONG, A.B., *Instructor Emeritus in Health and Physical Education.*
- RACHEL SIBLEY SUTTON, A.B., M.A., Ph.D., *Professor of Education.*
- *RICHARD WILLIAM TEWS, B.S., M.A., *Assistant Professor of Health and Physical Education.*
- MARY LEATH THOMAS, B.S., M.Ed., *Assistant Professor of Education and Member of the Staff, Atlanta Area Teacher Education Service.*
- *MARY JANE TINGLE, A.B., M.A., *Instructor in Education and Critic Teacher in English in the Demonstration School.*
- ELIZABETH TODD, Ph.B., M.A., *Professor of Education in Home Economics.*
- RALPH HARMON TOLBERT, A.B., B.S.A., M.S.Ed., *Associate Professor of Agricultural Education and Acting Chairman, Division of Vocational Education.*
- FORREST GRADY TOWNS, B.S.Ed., *Assistant Professor of Health and Physical Education.*
- SARA FRANCES VARNER, B.S., *Instructor in Education and Critic Teacher in the Demonstration School.*
- JOSEPH ANDERSON WILLIAMS, A.B., M.S., M.Ed., Ed.D., *Professor of Education and Assistant to the President.*
- WENDAL TAYLOR WILSON, B.S.Ed., *Assistant Professor of Health and Physical Education.*
-
- OMER CLYDE ADERHOLD, B.S.A., M.S., Ph.D., *President of the University.*
- ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Dean of Faculties.*
-
- JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Dean of Student Affairs.*
- WALTER NEWMAN DANNER, JR., B.S.A.E., M.S.A., *Registrar and Director of Admissions.*
- JOHN DIXON BOLTON, C.P.A., *Comptroller and Treasurer.*

*On leave.

PEABODY COLLEGE OF EDUCATION

GENERAL INFORMATION

The George Peabody College of Education began in 1903 when Chancellor Walter B. Hill organized the new Department of Philosophy and Education. Dr. Thomas Jackson Woofter was made head of the department. In 1911 the Peabody Board submitted the following contract which was approved by the Governor and the General Assembly:

"In consideration of a grant of \$40,000 by the Trustees of the Peabody Education Fund for the erection and equipment of a building for the Peabody School of Education in The University of Georgia, The University of Georgia hereby agrees to maintain sufficiently and to set apart annually not less than \$10,000 for the maintenance of this School of Education, this sum to be a perpetual annuity."

Thus the Department of Philosophy and Education became the Peabody School of Education. Dr. T. J. Woofter, head of the department, was appointed as the first dean of the new school and served in this capacity for twenty years.

In 1931 the Peabody School of Education of the University, the Georgia State Teachers College, the Department of Rural and Vocational Education of the College of Agriculture, and the Departments of Physical Education for Men and Women were combined. The Peabody College of Education is an integral part of the University of Georgia and by action of the Board of Regents, it provides and administers all professional courses designed for the preparation of teachers and all other educational workers. Its purpose is to assist the student in the acquirement of the knowledge of the subjects which he wishes to teach, to develop a professional attitude toward education, and to develop skill in the use of special methods in teaching and supervision.

The effort of the College is to bring into proper adjustment within the limits of the four-year courses the academic training, the theoretical professional training, and the practical professional training necessary for effective teaching.

The College is a professional school and ranks as such with the other professional schools of the University.

The organization of the Peabody College of Education comprises the following divisions: Undergraduate, Graduate, Research, Service, and the Demonstration School.

HONOR SOCIETIES

Students registered in the College of Education with a major in language and literature are eligible for election to Phi Beta Kappa. Students pursuing a program leading to the degree of Bachelor of Science in Education are eligible for election to Phi Kappa Phi.

KAPPA DELTA PI. A chapter of this national organization was established at the University in 1929. Membership is based upon high scholastic attainments and promise of future usefulness in the field of educational leadership.

AREAS OF INSTRUCTION

The College offers instruction in the following areas: Administration and Supervision, Curriculum, Educational Psychology, Research and Measurements, Supervision of Teaching, Elementary Education, Secondary Education, Health and Physical Education, Industrial Arts, Agricultural Education, Home Economics Education, Secretarial and Distributive Education, Art Education, Music Education, and Library Science.

DEGREES

The College offers the following degrees: (a) Undergraduate degree: Bachelor of Science in Education; (b) Graduate degrees: Master of Science in Education, Master of Education, and Doctor of Education.

CURRICULA

In providing facilities for the preparation of teachers and other educational workers the needs of the following types of workers are recognized and provided for. Each curriculum is sufficiently flexible to meet the special needs of individual students.

Students must make grades of C or above in all courses in education and in their teaching fields.

UNDERGRADUATE DIVISION

The undergraduate division provides for the following types of teachers: (1) Agriculture, (2) Public School Art, (3) Elementary School, (4) Secondary School, (5) Home Economics, (6) Public School Music, (7) Health and Physical Education, (8) Industrial Arts, (9) Teacher-librarians, (10) Secretarial Education, and (11) Distributive Education.

GRADUATE DIVISION

The Graduate Division provides for the following: (1) Elementary School Teachers, (2) Elementary School Principals, (3) Secondary School Teachers, (4) Junior College Teachers, (5) Secondary School Principals, (6) School Superintendents, (7) Counselors, (8) School Psychologists, (9) Supervisors, (10) Teachers in special fields such as Health and Physical Education, Industrial Arts, Agriculture, Home Economics, and Secretarial and Distributive Education.

Graduate work in education is distinctly professional in character and is under the administration and supervision of the Graduate School. In addition to this general supervision, special direction in the graduate field of education is provided by the College of Education. A wide range of graduate courses especially designed for those specializing in the higher levels of education is offered. One or more faculty members will be appointed from the staff of the College to act as advisers in arranging and directing the student's program.

The student in cooperation with his advisers will set up his graduate program. The satisfactory completion of four undergraduate courses in education is a prerequisite of any course in education for graduate credit.

Graduate students in education may qualify for the degree of Master of Science in Education, Master of Education, or Doctor of Education.

GRADUATE PROGRAMS IN EDUCATION LEADING TO MASTER'S DEGREES

Graduate students in education may qualify for either of two degrees at the master's level, depending on their vocational objectives. The degree of Master of Science in Education is designed for students whose vocations require training in research procedures. The degree of Master of Education is designed for students whose vocational objectives do not presuppose rigorous training in research procedures but rather a broad background of professional training.

The student should seek the advice of the Chairman of the Division of Graduate Studies of the College of Education in determining the suitability of the degree program to his educational purpose.

The Georgia State Board of Education has approved the College of Education to offer graduate training programs leading to the following types of five-year professional certificates:

- Teachers—T-5 certificate
- Principals—P-5 certificate
- Superintendents—Su-5 certificate
- Supervisors—Sv-5 certificate
- Guidance Counselors—GC-5 certificate

In addition to the officially approved programs listed above, the College of Education offers special training facilities for visiting teachers and other educational specialists.

During his first quarter of graduate residence, the graduate major in Education should request the Chairman of the Division of Graduate Studies, College of Education, to assign him to a major professor. At this time the student will be furnished detailed information concerning the requirements of the graduate degree for which he wishes to become a candidate.

MASTER OF SCIENCE IN EDUCATION

The minimum requirement for the degree of Master of Science in Education is an approved program (including a major of four courses and two minors of two courses each), residence to the extent of one academic year (which may in some instances be satisfied by a minimum of thirty weeks in residence), and a thesis based upon original source material. At least one minor must be taken in a field other than education. Candidates for this degree must have Education 816, Methods and Applications of Educational Research.

MASTER OF EDUCATION

The minimum requirement for the degree of Master of Education is an approved program, including eleven courses (fifty-five quarter hours) and a residence requirement which cannot be satisfied with less than a minimum of thirty-six weeks. At least three of the courses in the student's program must be in fields other than education. Candidates for this degree must complete for credit the two following courses: Education 826, Critique of Educational Literature; and Education 921, Laboratory in Applied Education. No thesis is required for this degree.

DOCTOR OF EDUCATION

REQUIREMENTS. In general, the requirements for the Doctor of Education degree are the same as those for the degree of Doctor of Philosophy. In exceptional cases, however, some modification of the foreign language requirement may be allowed where conditions seem to justify it. Any such modification must have the specific approval of the Executive Committee of the Graduate Faculty. The Graduate Faculty may, in individual cases, also make such modification of the residence requirement as seems necessary to meet the need for approved field work.

The dissertation required for the degree of Doctor of Education will emphasize the intelligent application of research techniques to the solution of a problem connected with educational practice, and it is the most important single requirement for the degree. It is intended to show the candidate's ability to conduct an independent investigation based upon source materials growing out of practical educational problems in his field. The subject chosen must be definite and of limited range, the method of investigation must be formulated with exactness, the sources that are employed must be properly evaluated, and the conclusions must be well-supported.

Candidates for this degree must have the personal qualities necessary for success in their profession, must have had a *broad background of training,*

and must have had at least two years of successful experience in the teaching profession. A candidate who is securing training for administration should include a minor in the social sciences; one who is training for teaching should have a minor in the subject matter field in which he proposes to teach.

The Graduate School will admit to candidacy for this degree only those students who give promise of the power to do original and creative work on educational problems of major and lasting significance.

BUREAU OF EDUCATIONAL STUDIES AND FIELD SERVICES

The functions of the Bureau of Educational Studies and Field Services are: (1) to carry on, when requested, systematic research in problems of the public schools, the State Department of Education, and the University System of Georgia; (2) to provide, when requested, special field service personnel to the public schools and units of the University System to enable them to deal more effectively with the problems facing the System or units; (3) to conduct, when requested and when feasible, surveys of schools and school systems; (4) to train graduate students and others in the techniques of educational research; (5) to edit and publish several studies and other materials of interest to educators and the public; and (6) to assist local school leaders in conducting educational research.

The activities of the bureau embrace the many phases of education found in nursery school, kindergarten, elementary school, high school, college, and adult education.

The Bureau of Educational Studies and Field Services is a division of the College of Education. It is located in the College of Education, but its research and field personnel may be located conveniently to the problem or problems being attacked.

THE DEMONSTRATION SCHOOL

Supervised observation and apprentice teaching are required of candidates for a degree in the Peabody College of Education. Students preparing to teach in high school do their practice teaching in one or both teaching fields (major or minor); students preparing to teach in the elementary schools have their directed teaching at either the primary or intermediate level, or both. Apprentice teaching is articulated with instruction in general and specific methods to the limits of practical possibility. Observation and practice teaching are done under the daily direction of competent teachers.

The Demonstration School is available as a laboratory for observation and experimentation and provides opportunities for the study of educational problems and practices. The classroom instruction in education is thus combined with the opportunity to observe and participate in the activities of this school.

SATURDAY CLASSES

The College of Education holds Saturday classes for superintendents, principals, and teachers living within commuting distance of Athens. The program is planned to meet the expressed needs of those attending. The offerings are on both the graduate and undergraduate levels, and are not limited to work in education.

THE ATLANTA AREA TEACHER EDUCATION SERVICE

The College of Education of the University of Georgia, Emory University, Agnes Scott College, Georgia Institute of Technology, Columbia Theological Seminary, Atlanta Arts Association, in cooperation with six school systems in the Atlanta area, constitute the Atlanta Area Teacher Education Service. The purpose of the Atlanta Area Teacher Education Service is to pool the

resources of the higher institutions listed above in providing a program of instruction for the teachers in the Atlanta area. Courses are offered on both the credit and non-credit basis. The cooperating institutions provide the instructional and consultative personnel. Residence graduate credit up to 15 quarter hours may be earned in this program.

Several members of the staff of the College of Education and other units of the University serve as full-time or part-time instructors in the Atlanta Area Teacher Education Service.

OFF-CAMPUS WORKSHOPS

Upon request of county or independent system school officials the College of Education conducts off-campus workshops each school year. Members of the college staff work with principals, teachers, and other school officials in discovering and solving individual and group problems. Staff personnel is available for work with workshop participants on problems arising in classroom teaching, faculty meetings, and community planning. Graduate or undergraduate credit may be earned in a workshop.

CLINICS

CLINICS FOR TEACHERS OF VOCATIONAL AGRICULTURE. In cooperation with the State Department of Education and the technical departments of the University, both professional and technical short unit courses will be offered to groups of employed teachers throughout the state as a part of a program for the improvement of teachers in service. These courses run from two to five days, depending upon the nature of the problems involved.

OTHER CLINICS. Other clinics will be organized, staffed, and conducted by the College of Education upon request from groups of educators in the state concerned with various administrative and instructional problems.

RELATED MAJORS AND MINORS

The related majors and minors are named in the order of frequency of their appearance in typical high school teaching assignments.

MAJORS	MINORS
Industrial Arts.....	Physical Education, Social Sciences, Mathematics.
English.....	Mathematics, Physical Science, Physical Education.
Social Sciences.....	English, Mathematics, Biological Science, General Science, Physical Science.
Latin.....	English, French, Social Science, Mathematics.
French.....	Latin, English, Social Science, Mathematics.
Mathematics.....	Physical Science, Social Science, Biological Science.
Physical Science.....	Biological Science, Mathematics, Social Science.
Home Economics.....	Physical Science, Mathematics, Social Science.
Physical Education.....	Biological Science, Physical Science, Social Science.
Biological Science.....	Social Science, Biological Science, Physical Science, Mathematics.
Library Service.....	English, Social Science.

STATE CERTIFICATION OF TEACHERS

The following programs of the College of Education, for the preparation of teachers, are approved by the State Board of Education. A person completing any one of these programs may be recommended to the Division of Certification, State Department of Education, for a Four Year Professional certificate. For further information see the bulletin of the State Department of Education entitled "Certification of Teachers."

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE
IN EDUCATION FOR ELEMENTARY TEACHERS

In the preparation of elementary teachers the freshman and sophomore years are devoted chiefly to general education. The program, which includes English, social science, mathematics, physical and biological sciences, music, art, and physical education, is required of all persons planning to be elementary teachers. The program for the junior and senior years consists of three parts: A group of required courses in education, a group of required subject matter courses, and a group of approved electives.

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2 x-y	10	History 110 x-y	10
Speech 8	5	English 22 x-y	10
Political Science 1	5	Social Science 4	5
Human Biology 1-2	10	Psychology 1	5
Mathematics 101x or 101y	5	Art 100	5
Education 103	5	Industrial Arts 133	5
Physical Science 1, 2, or Geography 121	5	Economics 5x	5
Military Science 1 or Air Science	5	Military Science 2 or Air Science	6
Physical Education 1 (for men)	0	Physical Education 2 (for men)	0
or		Physical Education 2 (for women)	5
Physical Education 1 (for women)	5		
	50		50

JUNIOR AND SENIOR REQUIREMENTS*

	Hours
Education 304, 335.4, 336.4	15
Education 346.4, 347.4, 348.4	15
Education 349	5
Sociology 431	5
Health Education 307, 344	10
Home Economics 304	5
Geography 310	5
Music 343 or 307	5
Approved Electives	30
	95

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
EDUCATION FOR GENERAL SECONDARY TEACHERS

In the preparation of high school teachers the freshman and sophomore years are devoted chiefly to general education. The program, which includes English, social science, mathematics, physical and biological sciences, music, art, and physical education, is required of all persons planning to teach in high school. The junior and senior years consist of a group of required courses in education and an approved program in one or two teaching fields.

*Education courses may be taken any time during the junior and senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2 x-y	10	History 110 x-y	10
Speech 8	5	English 22 x-y	10
Political Science 1	5	Social Science 4	5
Human Biology 1-2	10	Psychology 1	5
Mathematics 101x or 101y	5	Art 100	5
Education 103	5	Industrial Arts 133	5
Physical Science 1, 2, or Geography 121	5	Economics 5x	5
Military Science 1 or Air Science 5	5	Military Science 2 or Air Science 6	5
Physical Education 1 (for men) ..	0	Physical Education 2 (for men) ..	0
or		Physical Education 2 (for women)	5
Physical Education 1 (for women)	5		—
	—		
	50		50

JUNIOR AND SENIOR REQUIREMENTS*

	Hours
Education 304, 335.5, 336.5	15
Education 346.5, 347.5, 348.5	15
Education 349	5
Teaching major (See suggested programs)	30
Teaching minor (See suggested programs)	20
Electives	10
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	95

RECOMMENDED COURSES IN TEACHING FIELDS FOR HIGH SCHOOL TEACHERS

The program in the teaching field may be divided into a major of at least 30 hours and a minor of at least 20 hours, or 50 hours may be concentrated in one broad field. The courses in the major and minor teaching fields must be planned with the student's adviser. In general, course selections should be made from the following programs.

SOCIAL SCIENCE TEACHERS

(Minimum of 30 hours for a major or 20 hours for a minor)

	Hours
HISTORY:	
History 310, History of the Far East	5
History 330, Europe Since 1914	5
History 350x-y, American History	10
History 395, The United States in World Affairs Since 1900	5
History 458, History of American Diplomacy	5
History 492, The Latin-American Republics Since 1823	5
POLITICAL SCIENCE:	
Political Science 312, The Governments of the Soviet Union and the Far East	5
Political Science 320, International Relations	5
Political Science 368, County and Municipal Government	5
Political Science 406, State Government	5
Political Science 410, American Political Parties	5
Political Science 421, World Political Organization	5
SOCIOLOGY:	
Sociology 360, Contemporary Social Problems	5
Sociology 431, Principles of Rural-Urban Sociology	5
Sociology 461, The Family	5

*Education courses may be taken at any time during the junior and senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

ECONOMICS:

Economics 386, Labor Problems	5
Economics 455, Contemporary Economic Problems	5
Economics 466, Economics of Consumption	5

GEOGRAPHY:

Geography 310, Conservation of Natural Resources	5
Geography 341, Problems in Political Geography	5
Geography 358, Economic Geography	5

ENGLISH TEACHERS

(Minimum of 30 hours for a major or 20 hours for a minor)

Hours

ENGLISH:

English 305, Lyric Poetry	5
English 310, Advanced Grammar and Syntax	5
English 343, Contemporary Drama	5
English 361, The Short Story	5
English 380, The Modern Novel	5
English 420, American Literature to 1865	5
English 422, American Literature after 1865	5
English 429, Southern Literature	5

SPEECH:

Speech 309, English Phonetics	5
Speech 310, Speech Correction	5
Speech 311, Speech Correction	5
Speech 386, Oral Interpretation of Literature	5
Speech 396, Dramatic Interpretation	5

JOURNALISM:

Journalism 366, Journalism in Secondary School	5
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MATHEMATICS TEACHERS

(Minimum of 30 hours for a major or 20 hours for a minor)

Hours

MATHEMATICS:

Mathematics 101 x-y, College Algebra and Trigonometry	10
Mathematics 102, Mathematics of Finance	3
Mathematics 110, Analytic Geometry	5
Mathematics 354 and 355, Calculus	10
Mathematics 356, Statistics	5
Mathematics 412, College Geometry	5

BUSINESS ADMINISTRATION:

Business Administration 6 x-y, Principles of Accounting	10
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TEACHERS OF FOREIGN LANGUAGES*

(Minimum of 30 hours for a major or 20 hours for a minor)

Hours

FRENCH:

French 101-102, Elementary French (Not required if student has had 2 years of high-school French)	10
French 103, Intermediate French	5
French 104, French Grammar, Composition, and Conversation	5
French 106, Intermediate French Conversation	5
French 201, 202, Introduction to the Study of French Literature	10
French 357, French Phonetics	5
French 456, Advanced French Syntax and Composition	5
French (Education) 481, Problems of Teaching Romance Languages	5

*Upon recommendation of a student's adviser and with permission of the Dean of the College of Education, language teachers may substitute 15 hours of an approved program in foreign language for 15 hours of junior division courses.

SPANISH:

Spanish 101-102, Elementary Spanish (Not required if student has had 2 years of high-school Spanish)	10
Spanish 103, Intermediate Spanish	5
Spanish 104, Spanish Reading	5
Spanish 106, Spanish Conversation	5
Spanish 201, 202, Introduction to Spanish Literature	10
Spanish 420, Modern Spanish Novel	5
Spanish 426, Advanced Spanish Syntax and Composition	5
Spanish 428, Spanish Phonetics	5
Spanish (Education) 481, Problems of Teaching Romance Languages.....	5

LATIN:

Latin 201, 202, Elementary Latin	10
Latin 203, Intermediate Latin	5
Latin 304, Reading in Latin	5

SCIENCE TEACHERS

(Minimum of 50 hours for a major and 25 hours for a minor)

Hours**BOTANY:**

Botany 21-22, Elementary Botany	10
Botany 305, Field Botany	5
Botany 375, Plant Ecology	5

CHEMISTRY:

Chemistry 21-22, Inorganic Chemistry	10
Chemistry 340 a-b, (346) Organic Chemistry	10(5)
Chemistry 370, 371, Industrial Chemistry	10

PHYSICAL SCIENCE SURVEY:

Physical Science 1-2, Physical Science Surveys	10
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PHYSICS:

Physics 26, General Physics—Heat, Sound, Light	5
Physics 27, General Physics—Mechanics	5
Physics 329, General Physics—Electricity and Modern Physics.....	5
Physics 370, Principles of Photography	5
Physics 380, Electronics	5

ASTRONOMY:

Astronomy 391, Descriptive Astronomy	5
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ZOOLOGY:

Zoology 25-26, General Zoology	10
Zoology 373, Entomology	5
Zoology 381, Ornithology	5
Zoology 353, Animal Ecology	5
Zoology 374, Animal Entomology	5

BACTERIOLOGY:

Bacteriology 350, Introductory Bacteriology	5
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GEOLOGY:

Geology 25, Elements of Geology (Physical)	5
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HEALTH AND PHYSICAL EDUCATION TEACHERS**

(Minimum of 20 hours for a minor)

For a minor in health and physical education the student must select a minimum of 20 hours; these hours may be from one of the following areas: Physical Education, 18, 19, 311 (Women: 352a-b-c, 353a-b-c, 315), (Men: 380a-b-c, 381a-b-c), 372, 376, 377, 383; Recreation, 18, 19, 40a-b-c, 372, 376, 377, 384, 385, 386, 387; Health Education, 307, 344, 370, 371, 372, 377, 387, 383; Dance, 307, 372, 311, 352a-b-c, 353a-b-c, 357, 358, 359, 368, 377, 399.

SCHOOL LIBRARIANS

(Minimum of 30 hours for a major—or 20 hours for a minor)

The University of Georgia now offers thirty quarter hours work in Library Service. The courses are designed to meet the needs of five groups of persons: (1) students who wish to qualify for positions as librarians or teacher-librarians in elementary or secondary schools under the requirements of the Southern Association standards for accredited schools; (2) students who wish to prepare for public library service in small communities and rural areas; (3) teachers and prospective teachers who feel the need of wider acquaintance with library materials; (4) administrators and supervisors of public schools; (5) students in other courses by supplying elementary methods of library research.

A major concentration of study consists of thirty quarter hours in addition to apprentice work. A minor consists of twenty quarter hours, including 302, 303, 304 and 305, which courses contain the subject matter requirements for certification as teacher-librarian. No courses are offered by correspondence.

	Hours
Library Service 301, Library Guidance for Teachers and Administrators	5
Library Service 302, Principles of Book Evaluation	5
Library Service 303, Utilization of Library Materials	5
Library Service 304, Organization of Library Materials	5
Library Service 305, Administration of a Small Library	5
Library Service 306, Literature for Children and Adults	5

TEACHERS OF ART

(Minimum of 30 hours for a minor)

	Hours
Art 100, Art Principles	5
Art 20, Art Structure (Drawing)	5
Art 30, Art Structure (Design) or equivalent	5
Art 413, Crafts	5
Art 231, Painting	5
or Art 241, Watercolor	
Choice of one of the following:	5
Art 40, Art Structure (Nature of Materials)	
Art 111, Design	
Art 121, Drawing and Composition	
Art 242, Watercolor	
Art 250, Weaving	
Art 160, Pottery or equivalent	
Art 414, Drawing and Painting (for teachers)	

**Education courses may be taken any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

TEACHERS OF INDUSTRIAL ARTS*

(Minimum of 25 hours for a minor)

Industrial Arts 20 or 328	5
Industrial Arts 22 or 325	5
Industrial Arts 150	5
Industrial Arts 330	5
Industrial Arts 550	5

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR IN INDUSTRIAL ARTS

FRESHMAN

SOPHOMORE

	Hours		Hours
English 2 x-y	10	English 22 x-y	10
Speech 8	5	History 110 x-y	10
Political Science 1	5	Art 100	5
Mathematics 101x or 101y	5	Industrial Arts 22	5
Education 103	5	Industrial Arts 150	5
Industrial Arts 20	5	Social Science 4	5
Psychology 1	5	Military Science 2 or Air Science 6	5
Physical Science 1, 2, 3, or Geography 121	5	Physical Education 2 (for men) ...	0
Military Science 1 or Air Science 5	5	or	
Physical Education 1 (for men) ...	0	Physical Education 2 (for women)	5
or		Electives	5
Physical Education 1 (for women) 5			
	—		—
	50		50

JUNIOR AND SENIOR REQUIREMENTS**

	Hours
Education 304, 335.6, 336.6	15
Education 346.6, 347.6, 348.6	15
Education 349	5
Industrial Arts 323	5
Industrial Arts 325	5
Industrial Arts 328	5
Industrial Arts 330	5
Industrial Arts 340	5
Industrial Arts 550	5
Teaching Minor	20
Elective	10
	—
	95

*Those teachers who want a major in industrial arts should see the special program for industrial arts teachers.

**Education courses may be taken at any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR IN ART

FRESHMAN	Hours	SOPHOMORE	Hours
English 2 x-y	10	English 22 x-y	10
Art 30 or equivalent	5	Social Science 4	5
Art 20	5	Psychology 1	5
Human Biology 1-2	10	Political Science 1	5
Mathematics 101x or 101y	5	Art 40, 111	10
Speech 8	5	Music 43	3
Education 103	5	Economics 5x or Physical Science 1	5
Military Science 1 or Air Science 5	5	Military Science 2 or Air Science 6	5
Physical Education 1 (for men) —	0	Physical Education 2 (for men) —	0
or		or	
Physical Education 1 (for women)	5	Physical Education 2 (for women)	5
Elective	3	Elective	5
	—		—
	53		53

JUNIOR AND SENIOR REQUIREMENTS*

	Hours
Education 304 and Art 414 and 415; or Education 304, 335.4, and 336.4	10 or 15
Education 346.4, 347.4, 348.4	15
Education 349	5
Sociology 431	5
Health Education 344	5
Art 211	5
Art 221	5
Art 231 and 241	10
Art 251	5
Art 261	5
Art 281, 282, or 283	5
Approved electives	15 or 20

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR IN MUSIC EDUCATION**

FRESHMAN	Hours	SOPHOMORE	Hours
English 2 x-y	10	Art 100, 281, or 282	5
Human Biology 1-2	10	English 22 x-y	10
Education 103	5	History 110 x-y	10
Political Science 1	5	Music 34, 35, 36	9
Music 10, 11, 12	9	Music 22 a-b-c	6
Music 71 a-b-c	6	Music 72 a-b-c	6
Music 21	3	Physical Science 1, 2 or 3, or Geography 121	5
Military Science 1 or Air Science 5	5	Military Science 2 or Air Science 6	5
Physical Education 1 (for men) —	0	Physical Education 2 (for men) —	0
or		or	
Physical Education 1 (for women)	5	Physical Education 2 (for women)	5
	—		—
	53		56

*Education courses may be taken at any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

**All music education majors must be able to read and play on the piano simple hymns or music of similar difficulty before graduation. All music majors must participate in ensemble courses.

JUNIOR AND SENIOR REQUIREMENTS**

	Hours
Education 304, Music 312 and 313; or Education 304, 335.5, and 336.5.....	15
Education 346.5, 347.5, 348.5	15
Education 349	5
Additional hours in music to be selected with the approval of the Head of the Department of Music and of the Dean of the College of Education	40
Approved electives	15

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR IN COMMERCIAL EDUCATION

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2 x-y	10	English 22 x-y	10
Business Administration 8	3	Social Science 4	5
Speech 8	5	Psychology 1	5
Political Science 1	5	Art 100	5
Human Biology 1-2	10	Economics 5 x-y	10
Mathematics 101x or 101y	5	Business Administration 6 x-y	10
Education 103 or 303	5	Military Science 2	5
Physical Science 1 or 2, or Geography 121	5	Physical Education 2 (for men)	0
Military Science 1	5	or Physical Education 2 (for women)	5
Physical Education 1 (for men)	0		
or Physical Education 1	5		
(for women)	5		
	53		50

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Education 304, 335.7, 336.7	15
Education 346.7, 347.7, 348.7	15
Education 349	5
Business Administration 309	5
Business Administration 303, 304, 305	6
Business Administration 300a, b, c	9
Business Administration 310	5
Business Administration 370	5
Electives	28
	93

**Education courses may be taken at any time during the junior or senior years, but must be taken in the order in which they are listed. Education 303 will be required of all transfer students who have not had Education 103 or equivalent.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR IN DISTRIBUTIVE EDUCATION

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2 x-y	10	English 6 or 22x	5
Speech 8	5	Business Administration 8	3
Political Science 1	5	Social Science 4	5
Human Biology 1-2	10	Psychology 1	5
Mathematics 101x or 101y	5	Industrial Arts 150	5
Education 103 or 303	5	Economics 5 x-y	10
Distributive Education 106	3	Business Administration 6 x-y	10
Physical Science 1 or 2, or Geography 121	5	Military Science 2	5
Military Science 1	5	Physical Education 2 (for men)	0
Physical Education 1 (for men)	0	Physical Education 2 (for women)	5
Physical Education 1 (for women)	5	Electives	5
	53		53

JUNIOR AND SENIOR REQUIREMENTS

Education 304, 335.7, 336.7	15
Education 346.7, 347.7, 348.7	15
Education 349	5
Distributive Education 205	5
Distributive Education 305	5
Distributive Education 306	5
Distributive Education 355	5
Distributive Education 356	5
Economics 360	5
Business Administration 386	5
Business Administration 462	5
Business Administration 463	5
Electives	10
	90

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR IN HOME ECONOMICS

FRESHMAN		SOPHOMORE	
	Hours		Hours
Art 30 or 100	5	English 22 x-y	10
English 2 x-y	10	Chemistry 346	5
Speech 3	3	Economics 5x or Approved Elective	5
Political Science 1 or Approved Elective	5	Sociology 5 or Social Science 4	5
Psychology 1	5	Home Economics 5	5
Home Economics 20	5	Home Economics 75	5
Education 103	5	Home Economics 90	5
Human Biology 1	5	Home Economics 222	5
Chemistry 21	5	Physical Education 2	5
Physical Education 1	5	Electives	6
	53		56

JUNIOR AND SENIOR REQUIREMENTS

Bacteriology 350	5
Home Economics 306, 321, 344	13
Home Economics 351, 377, 343	13
Home Economics 368, 369, 393, 490	16
Education 304, 335.2, 336.2	15
Education 346.2, 347.2, 348.2	15
Education 349	5
Electives	8

90

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
EDUCATION WITH A MAJOR IN HEALTH AND PHYSICAL
EDUCATION PROGRAM FOR MEN AND WOMEN

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2x-y	10	English 22x-y	10
Education 103	5	History 110x-y	10
Human Biology 1-2	10	Chemistry 21-22**	10
Speech 8 or 50	5	Physical Education 18-19	6
Political Science 1	5	Physical Education 40a-b-c (men) ..	9
Mathematics 101x or 101y	5	Military Science 2 or Air Science 6 ..	5
Sociology 5 or Psychology 1	5	Physical Education 2 (for men)	0
Military Science 1 or Air Science 5 ..	5	or	
Physical Education 1 (for men)	0	Physical Education 2 (for women) ..	5
or		Electives (women)	12
Physical Education 1 (for women) ..	5	Electives (men)	3
Elective	3		
	53		53

JUNIOR AND SENIOR REQUIREMENTS

CONCENTRATION AREAS

Although a student will receive training in each one of the fields, Health, Physical Education, and Recreation, he must, with the approval of his adviser and Head of the Department, set up a program in one of the Concentration Areas at the beginning of the junior year or earlier.

I. PHYSICAL EDUCATION

This concentration area is designed for the student interested in preparing for teaching or administration of physical education programs.

	Hours
Education 304, 335.3, 336.3	15
Education 346.3, 347.3, 348.3, 349 ..	20
Physical Education (Women) 307, 352a-b-c, 353a-b-c	23
Physical Education (Men) 380a-b-c, 381a-b-c	18
Physical Education 372, 360, 361, 383, 384*	18-21
Zoology 312a-b	10
Electives (Men) Recom. Physical Education 307, 311, 377	12
Electives (Women) Recom. Physical Education 311, 315, 384	6-9

90

II. HEALTH EDUCATION

This concentration area is designed for the student interested in professional preparation in school health education.

	Hours
Education 304, 335.3, 336.3	15
Education 346.3, 347.3, 348.3, 349 ..	20
Physical Education (Women) 307, 352a-b-c, or 353a-b-c	14
Physical Education (Men) 381a-b-c	9
Zoology 312-a-b	10
Physical Education 360, 361	10
Physical Education 371, 372, 383	13
Related Fields	8
Electives (Men)	9

90

**Ten hours of science in another field may be substituted in the Recreation Area.

III. RECREATION

This concentration area is planned for the student who is interested in the field of recreation.

	Hours
Education 304, 335.3, 336.3	15
Education 346.3, 347.3, 348.3, 349.....	20
Physical Education 372, 384, 385, 311, 386, 387	20
Physical Education 381a-b-c (men) 9 (Women) Select from Physical Education 307, 352a-b-c, 353a-b-c or other electives.....	19
Sociology	10
Fine Arts	5 or 8
Industrial Arts	5
Electives (Men)	8
	96

IV. DANCE

This concentration area is planned for the student who is interested in obtaining a foundation in the elements of creative dance leading to professional activity in dance education.

	Hours
Education 304, 335.3, 336.3	15
Education 346.3, 347.3, 348.3, 349.....	20
From Physical Education 307, 352a-b-c, 353a-b-c, 315*	12
Physical Education 360-361	10
Physical Education 311, 357, 358, 359, 368, 399	20
Zoology 312a-b	10
Electives	9
	96

*Women students select 12 hours from activity courses.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
AGRICULTURE WITH A MAJOR IN AGRICULTURAL EDUCATION

FRESHMAN

	Hours
Agricultural Economics 4	5
Animal Husbandry 1	3
Botany 21-22 (for agricultural students)	10
Chemistry 21-22 (for agricultural students)	10
Dairy Husbandry 3	3
English 2 x-y	10
Forestry 2	3
Poultry Husbandry 60	5
Military Science 1 or Air Science 5	5
Physical Education 1	0
	54

SOPHOMORE

	Hours
Agricultural Economics 10	3
Agricultural Engineering 20-60-70 ..	9
Agronomy 1	5
Agronomy 10	5
English 6	5
Horticulture 1	5
Mathematics 101x or 101y	5
Physics 20	5
Political Science 1	5
Military Science 2 or Air Science 6	5
Physical Education 2	0
	52

JUNIOR

	Hours
*Science Selection	20
Bacteriology 350	5
Plant Pathology 353	5
Animal Husbandry 382	5
Plant Pathology 358	5
Zoology 374	5
Minor No. 1	10
Agricultural Economics 301.....	5
Agronomy 458	5
Other requirements	15
Education 303	5
Food Processing 363	5
Animal Husbandry 373	5
	45

SENIOR

	Hours
Major	25
Education 335.1	5
Education 336.1	5
Education 346.1	5
Education 347.1	5
Education 348.1	5
Minor No. 2	10
Two courses in any technical de- partment of the College of Agri- culture with approval of adviser.	
Other requirements	10
Education 304	5
Education 349	5
	45

*Mathematics 356 or Chemistry 346 may be substituted for any course in this group with approval of the student's adviser.

COURSES OF INSTRUCTION

(Peabody Hall, North Campus)

The University reserves the right to withdraw any course for which the registration is not sufficient, and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses will meet five times a week and carry a credit of five hours.

Students who register for Education courses in the Atlanta Area Teacher Education Service Center may do so in units of 2½ quarter hours each. The first unit will be identified by the letter "a"; the second unit by the letter "b".

A. Courses in Education for Undergraduate Students*Basic Courses in Education*

The basic courses in education may be sectioned in accordance with the teaching objective of the student. Sectioning will be done in 335, 336, 346, 347, and 348, and may be done in other basic courses in education. Point and figure after the course number will designate section. For example, "335.1" denotes the section for agriculture teachers; "335.4" denotes the section for elementary teachers. Below are the numbers for the different kinds of sections:

.1 agricultural; .2 home economics; .3 health and physical education; .4 elementary; .5 high school; .6 industrial arts and .7 distributive education; .8 library service; .9 art education; .10 music education.

103. AN INTRODUCTION TO PERSONAL AND PROFESSIONAL DEVELOPMENT. Regular class and laboratory periods. *Mr. Hudgins and selected members of the Staff.*

This course is designed for freshmen who expect to teach. Each student will be given the opportunity to make an occupational choice and to undertake a comprehensive and systematic study of his choice in relation to personal and professional development. Students will have opportunities, through a full program of testing and counseling, to analyze their own needs in such areas as health, reading, creative writing, and computation. Guidance will be provided in terms of the student's needs. Help will be given in improving study habits and in budgeting time. The duties and responsibilities of teachers will be studied as a basis for determining competencies and proficiencies which should be acquired.

Students will acquaint themselves with the program of the University, the public school programs in the state, and the resources of the local community that contribute to an improved instructional program. Some emphasis will be given to the development of the American school. Opportunities for observation of and participation in the program of the University Demonstration School will be provided in this course.

304. EDUCATIONAL PSYCHOLOGY. *The Staff.*

Special emphasis in this course is placed upon developing competencies on the part of prospective elementary and high school teachers in understanding and applying the psychological principles involved in the growth and development of children and youth. The University Demonstration School will be used as a laboratory for students in this course.

335. CURRICULUM PLANNING. Prerequisite: Education 103 or equivalent. *The Staff.*

The purpose of this course is to develop the ability of the student to engage in curricular activities of the public schools. Emphasis is placed upon procedures for locating, organizing, and summarizing data concerning social, economic, and personal problems to serve as a guide in formulating curricular activities with youth and adults based upon their needs and interests. Several methods of formulating curricular programs are studied and evaluated. Directed observation will be carried on in the University Demonstration School and other selected schools. Interests and needs of the students taking this course will be cared for in two ways. First, they will be sectioned according to their major interests; that is, vocational agriculture, home-making, health education, and the general teachers in the elementary and high schools. Second, within each section students will be permitted and encouraged to emphasize the type of work in which they expect to engage; for example, some may be interested in the primary, others in the intermediate levels of instruction, and still others in social science or science on the high school level.

336. TEACHING PROCEDURES. Prerequisite: Education 103 or equivalent. *The Staff.*

The purpose of this course is to evaluate the teaching procedures used by the teachers in the public schools. Attention is given to techniques used in teaching pre-primary, primary, intermediate, and high school groups; out-of-school youth groups; and adult groups. The University Demonstration School and other selected schools are used for observation. Observations of out-of-school youth and adult groups are made when practicable. Individual interests and needs of students enrolled in this course are provided for by sectioning in the same manner as in Education 335.

346, 347, and 348. APPRENTICE TEACHING. 15 hours. Prerequisites: Education 335 and 336. Off-campus Centers. *The Staff.*

The program of apprentice teaching is a cooperative undertaking between the University and selected school systems. The threefold purpose is: (1) to give college students experience in actual problems of teaching in normal situations, (2) to aid teachers in service, and (3) to assist faculty members of the College of Education in understanding the actual problems in the field for which they are aiding in the preparation of teachers.

The public schools and the supervising teachers used in the program are carefully selected by the College of Education and are located in the several areas of the state. Each school selected provides facilities and opportunities for the participation of apprentices in the teaching program of that school. The student, for a quarter, becomes a resident of the selected school community and an apprentice to the supervising teacher. He participates in all the responsibilities carried by his supervising teacher, engaging in a total program of teaching activities, gradually advancing from observer to participant and finally to full responsibility as a teacher. His work is under the joint guidance of the local teaching staff and members of the University faculty.

349. SEMINAR IN EDUCATION. Prerequisite: Apprentice Teaching. *The Staff.*

This is a seminar dealing with problems emerging from experiences in apprentice teaching. Emphasis will be placed upon the planning of a total school program, and the place and responsibilities of each teacher in the school. Special attention will be given to the work of the public schools in relation to the needs and interests of the community, the nation, and the world.

Additional courses in Education.

301. PUBLIC EDUCATION. *Mr. Ritchie.*

A study of public education in Georgia and the Southeast. This course is for prospective citizens who will be taxpayers, patrons of schools, and members of school boards, as well as for prospective teachers.

303. INDIVIDUAL ANALYSIS AND PROFESSIONAL PLANNING. (No credit allowed if student has credit for Education 103 or equivalent.) *Mr. Hudgins and selected members of the Staff.*

This course is planned for upper-classmen who have not had Education 103 or equivalent. Through a full program of testing and counseling students will make a systematic study of their needs in relation to personal and professional development. Study habits will be analyzed and guidance will be given in improving study habits and in budgeting of time. Opportunities will be provided for students to study the duties and responsibilities of teachers working in the total school program. Students will be expected to choose a teaching field and to plan a professional program in terms of this choice.

390. SCHOOL ADMINISTRATION FOR TEACHERS. Prerequisites: Three courses in education. *Mr. Mahler and Mr. Smith.*

This course deals with the administrative duties of teachers and with the guidance of out-of-class activities of pupils.

MUSIC 302. METHODS OF TEACHING PUBLIC SCHOOL MUSIC. For education majors only. *Miss Smith.*

A course of Music fundamentals designed for grade teachers.

MUSIC 312. METHODS OF TEACHING MUSIC IN THE ELEMENTARY SCHOOL. Prerequisite: Music 302. Fine Arts Building. *Miss Smith.*

MUSIC 313. METHODS OF TEACHING MUSIC IN JUNIOR AND SENIOR HIGH SCHOOLS. Fine Arts Building. *Miss Smith.*

HOME ECONOMICS 304. NUTRITION EDUCATION FOR TEACHERS. Prerequisite: Senior college standing. *Miss Beall and Miss Moore.*

A study of the diet habits of Georgia school children and the relation of nutrition to health. Emphasis is placed on how all teachers working in their classrooms, in schools, and in communities, can enrich school programs and improve the health of school children through nutrition education.

ART 100. ART PRINCIPLES. Five laboratory periods. *Miss Browne.*

The course builds an understanding of the fundamentals of design and composition. Students learn to use creatively the basic art materials appropriate for public schools. Awareness of art quality is also fostered by gallery visits and lectures illustrated by work of artists and children. Readings and discussions encourage a sound attitude toward art and art education.

ART 413. CRAFTS. Five laboratory periods. *Miss Browne.*

The course develops ability to design 3-dimensionally in terms of material, process, and use. According to the needs of individual students, work is done in clay modeling, puppetry, papier mache, textile printing, simple weaving, and loom construction. Use of native materials is stressed. Students have contact with craft programs for children. The course is planned to meet the needs of teachers.

ART 414. DRAWING AND PAINTING. Five laboratory periods. *Miss Browne and Mrs. Thomas.*

Students in this course relate their own work in drawing, pictorial composition, color, and technique to the problems of teaching painting. Through readings, discussions and visits, students study the role of art experience as a means of personal development. Emphasis is placed upon the relationship of art to curricular patterns of the public school.

ART 415. DESIGN. Five laboratory periods. *Miss Browne.*

The purpose of the course is two-fold: (1) to deepen and broaden the design sense of students; (2) to help them develop means of teaching design as fundamental to every art activity.

B. Courses in Education for Advanced Undergraduates and Graduates.
(Courses numbered 400-600 may be taken by advanced undergraduates. Courses 600 and above are for graduate students.)

ADMINISTRATION

790. EDUCATIONAL ADMINISTRATION. Prerequisites: Four courses in education. *Mr. Dotson, Mr. Mahler, Mr. Smith, and Mr. Williams.*

Basic course for those preparing for administrative positions. Among the topics treated are: the function of education in a democracy, the legal bases of a school system, boards of education, organization of a school system, business management, curriculum making, improvement of instruction, the school plant, relations with the public, adult education. Attention will be directed primarily to the organization and administration of schools in the South.

791. EDUCATIONAL ADMINISTRATION. *Mr. Dotson, Mr. Mahler, Mr. Smith, and Mr. Williams.*

The second basic course for those preparing for administrative positions. The topics treated are: business management, curriculum making, improvement of instruction, the school plant, relations with the public, and adult education.

794. SCHOOL ADMINISTRATION. Prerequisites: Four courses in education. *Mr. Dotson, Mr. Mahler, Mr. Pafford, Mr. Smith, and Mr. Williams.*

A course dealing with the duties of school principals, organization and administration of the individual school, the principal's responsibility for the curricula of his school and for supervision, the principal's relationships. Not open to students who have credit for Education 793.

795. STATE AND COUNTY SCHOOL ADMINISTRATION. Prerequisite: Four courses in education including Education 790 or equivalent. *Mr. Dotson, Mr. Mahler, Mr. Purcell, Mr. Smith, and Mr. Williams.*

The relation of the Federal Government to education; the State Department of Education and the functions of its various divisions; local units of administration; the relationships of the superintendent; county boards of education; school law; certification of teachers; the county unit system; consolidation and transportation.

797. THE SCHOOL PLANT. Prerequisites: Four courses in education and two courses in school administration. *Mr. Smith and Mr. Williams.*

An intensive study of the operation and maintenance of the school plant.

798. SCHOOL FINANCE AND BUSINESS MANAGEMENT. Prerequisite: Education 790. *Mr. Purcell, Mr. Smith, and Mr. Williams.*

Problems of financing a school system; school revenues; budget making; school costs; insurance; financial accounting, records, and reports; management of school plant, equipment, and supplies.

824. SCHOOL PERSONNEL. Prerequisite: Four courses in education, including Education 790 or 794. *Mr. Hudgins, Mr. Mahler, Mr. Smith, and Mr. Williams.*

The administration of the school staff, selection, salary schedule, tenure, etc.

CURRICULUM

504-704. FUNDAMENTALS OF THE CURRICULUM. Prerequisites: Four courses in education. *Miss Burnham, Miss Cox, and Mr. Morris.*

An introductory course in the basic principles of curriculum planning as found in psychology, sociology, economics, and education. Application is made to Georgia schools and schools of the Southeast.

506-706. CURRICULUM PLANNING. Prerequisites: Four courses in education. *Miss Burnham, Miss Cox, and Mr. Morris.*

Problems of the curriculum of elementary and secondary schools in the post-war period. Special application to Georgia schools and schools of the southeastern states. Education 504 should precede this course unless it is waived by consent of the instructor.

662. THE COMMUNITY SCHOOL. *Mr. Dotson, Mr. Goodlad, and Mr. Jordan.*

The primary purpose of this course is to prepare selected school personnel, especially principals, for participation in planning and developing educational programs. The concept of the community school will be emphasized. Procedures will be developed for enlisting teachers and laymen in planning more adequate use of human and other resources in studying the school community as a basis for the development of an educational program to meet the needs of the people. A critical examination will be made of the literature and experiences of planning groups in America and other parts of the world.

804. CURRICULUM FOUNDATIONS. Prerequisites: Four courses in education. (Not open to students who have had Education 504.) *Mr. Morris.*

This course, for graduate students only, deals with the foundations of the curriculum as found in the fields of psychology, economics, government, sociology, and education. A first course.

EDUCATIONAL PSYCHOLOGY

502-702. ADVANCED EDUCATIONAL PSYCHOLOGY. *Mr. Bledsoe, Mr. Garrison, Mr. Greene.*

A consideration of the practical applications of the scientific findings of educational psychology to the more complex problems involved in the growth and development of learners.

511-711. PROBLEMS IN EDUCATIONAL PSYCHOLOGY. Prerequisite: Education 304. *Mr. Bledsoe, Mr. Garrison, Mr. Greene.*

A course designed to provide opportunities for the advanced student to secure specialized training in selected areas of educational psychology (e. g., individual differences, motivation, evaluation procedures, etc.).

552-752. PSYCHOLOGY OF CHILDHOOD. Prerequisite: Education 304 or equivalent. *Mr. Garrison, Mr. Greene, Mrs. Sutton.*

A course designed to develop functional skills in understanding the interests, needs, and abilities of elementary pupils and in evaluating the total development of elementary pupils.

555-755. PSYCHOLOGY OF ADOLESCENCE. Prerequisite: Education 304 or equivalent. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison, Mr. Greene.*

A course designed to develop functional skills in understanding the interests, needs, and abilities of adolescents and in evaluating the total development of adolescents.

636. FUNDAMENTALS OF CHILD STUDY. *Mr. Shufelt.*

This course is designed to give the teacher the techniques of learning to study a child. The content will have to do with the history and purposes of child study, the basic assumptions and philosophies, the necessary scientific knowledge, planning to make tentative and alternative hypotheses about the causes of specific bits of behavior and learning, spotting recurring patterns of behavior, and processing a case record in terms of developmental tasks and adjustment problems indicated by recurring behavior and situations.

684. ADVANCED CHILD STUDY. Prerequisite: Four courses in education including Education 636. *Mr. Shufelt.*

Emphasis is placed on the scientific interpretation of a case record. An organizing framework of six dynamic areas is introduced, namely: physiological processes; affective processes; peer group processes; socialization processes; self-developmental processes; self-adjustive processes. The framework serves two purposes: it provides a way of organizing the facts in the individual child's record; it provides a way of organizing the scientific principles and generalization which will explain the child's behavior and which are developed through lectures and directed reading.

EDUCATIONAL RESEARCH AND MEASUREMENTS

515-715. STATISTICAL METHODS IN EDUCATION. *Mr. Bledsoe, Mr. Greene.*

A course designed to develop an understanding of the appropriate uses of statistical methods in education and to develop basic skills needed in the analysis of quantitative data in education.

556-756. EDUCATIONAL TESTS AND MEASUREMENTS. Prerequisites: Four courses in education. *Mr. Bledsoe, Mr. Ritchie.*

Nature and function of measurement, the traditional examination, new-type tests, standardized tests, surveys and diagnostic tests, remedial teaching based upon diagnostic tests, measure of central tendency, measures of variability, tests and the classroom teachers, tests and the administrator.

615. PROBLEMS IN THE EVALUATION OF INSTRUCTION. *Mr. Greene.*

This course will deal with the nature and function of measurements, the traditional examination, new type tests, standardized tests, surveys and diagnostic tests, observational techniques, and other criteria. Special emphasis will be given to the interpretation of the results secured from evaluative technique.

816. METHODS AND APPLICATIONS OF EDUCATIONAL RESEARCH.* *Mr. Bledsoe and Mr. Greene.*

An appraisal of the techniques and procedures of research in education, with special applications to problems involved in conducting and reporting the research studies of graduate majors in education.

818. EVALUATION IN EDUCATION. (No credit allowed if student has credit for Education 615). Prerequisites: Four courses in education and consent of the instructor. *Mr. Bledsoe, Miss Cox, Mr. Greene, Mr. Morris, and Mrs. Sutton.*

A course dealing with the construction and application of various types of evaluative instruments: check lists, rating scales, anecdotal records, questionnaires, projective techniques, standardized and non-standardized tests.

826. CRITIQUE OF EDUCATIONAL LITERATURE. Prerequisites**: Four courses in education. *Mr. Bledsoe, Mr. Garrison, Mr. Greene, and Mr. Williams.*

This course is designed to develop abilities in the critical interpretation and evaluation of research and theoretical writing in the field of education. Each student will be expected to make a number of critical reviews of significant educational literature in the area of his specialization.

830. INVESTIGATION IN SUPERVISION. Prerequisites: Four courses in education and consent of instructor. *Miss Cox, Mr. Dalton, Mr. Singleton, and Mrs. Sutton.*

The purpose of this course is to give advanced graduate students an opportunity to do research on instructional procedures. Such problems as the comparison of two methods of teaching, the evaluation of instructional materials, or the evaluation of supervisory programs, may be studied. Supervisors and those planning to enter supervisory work will find this course of practical assistance.

900. THESIS AND DISSERTATION SEMINAR. Non-credit. Prerequisites: Four courses in education and advanced graduate standing. *The Staff.*

All candidates for graduating degrees will enroll for this course without credit. Opportunities will be provided for critical consideration of investigations being made by graduate students majoring in education.

916, 917, 918. EDUCATIONAL RESEARCH. 5-15 hours. Prerequisites: Four courses in education and graduate standing. *Authorized members of College of Education Staff.*

These courses provide opportunity for the student doing advanced graduate work to carry on individual investigation in the fields of his specialization under the guidance of the faculty member or members particularly qualified in the field under consideration.

921. LABORATORY IN APPLIED EDUCATION. Prerequisites: Four courses in education. *The Staff.*

This course is designed to provide opportunities for advanced students to undertake functional studies of topics or problems in education significantly related to their professional tasks. For most students it will involve supervised field work in the attempt to solve one or more practical school problems related to their normal duties.

*Under exceptional circumstances, upon recommendation of major professor and with approval of the Dean, Education 826 may be substituted for 816 if the training needs of the student seem to justify same.

**Under exceptional circumstances, upon recommendation of major professor and with approval of the Dean, Education 816 may be substituted for 826 if the training needs of the student seem to justify same.

GUIDANCE AND COUNSELING

520-720. FUNDAMENTALS OF A GUIDANCE PROGRAM. (No credit allowed if student has credit for Education 621, 622, or 672, or 872.) *Miss Bledsoe, Mr. Hudgins, Mr. King, and Mrs. Marbut.*

This course is designed for the purpose of identifying representative educational, vocational, and personal problems of individuals and planning a program of guidance service that will best assist individuals in solving these problems. A study will be made of each of the areas of guidance services and their relationships. This course is planned as an introduction to professional training for counselors and as an opportunity for teachers and principals to acquire an overview of guidance functions in the total school program.

521-721. ANALYSIS OF THE INDIVIDUAL. (No credit allowed if student has credit for Education 624, 625, or 872.) *Miss Bledsoe, Mr. Hudgins, Mr. King, and Mrs. Marbut.*

Emphasis in this course is placed on the study and use of techniques for discovering characteristics of individuals. Students registering for this course will be expected to develop competencies in recording, analyzing, correlating, and interpreting data as they relate to counseling.

523-723. COUNSELING. Prerequisites: Four courses in education and one course in guidance. *Miss Bledsoe, Mr. Hudgins, and Mr. King.*

The purpose of this course is to provide opportunities for students to develop abilities for dealing with problems of individuals in counseling situations. Registrants for the course will aid in making personal analyses to determine interview techniques to be used. The place of catharsis in psychotherapy and counseling will be investigated. Practice in using the interview in obtaining information, giving information, and changing attitudes will be provided.

524-724. EDUCATIONAL AND OCCUPATIONAL INFORMATION. Prerequisites: Four courses in education and consent of instructor. *Mr. Hudgins and Mr. Odgers.*

This course comprises a study of the nature, sources and functions of information about educational and occupational opportunities, their relationship and use in assisting individuals to formulate comprehensive plans in these areas. An examination and evaluation will be made of techniques for discovering, collecting, filing, interpreting, and using this information in counseling. Practice in the use of these techniques will be emphasized. Making community surveys and follow-up studies will be considered as a means of securing pertinent information.

METHODS OF TEACHING

410-610. THE USE OF AUDIO-VISUAL AIDS IN EDUCATION. Prerequisites: Four courses in education. *Mr. Bricker and Mr. Ritchie.*

A course in visual education, a study of the value and needs of visual instruction, equipment needed for visual instruction, the selection of visual material, general techniques of visual instruction, sound films, slides, opaque projections, and other visual classroom aids.

411-611. LABORATORY IN THE PRODUCTION OF AUDIO-VISUAL AIDS. Prerequisites: Four courses in education or consent of the instructor. *Mr. Bricker and Mr. Ritchie.*

Stresses the development of skills in the production of various types of audio-visual aids.

440-640. ART ACTIVITIES IN THE ELEMENTARY SCHOOL. *Miss Amos, Miss Browne, and Mrs. Thomas.*

Problems in the use of a variety of media are planned and executed with an emphasis on design and person interpretation as well as craftsmanship. Experiences in flat plane, low relief, and three-dimensional disciplines are included in such a way as to develop the abilities of individual children in keeping with modern educational objectives.

481-681. (FRENCH OR SPANISH). PROBLEMS OF TEACHING ROMANCE LANGUAGES. Prerequisite: French or Spanish 201-202 or 15 hours of education in addition to French or Spanish 104. *Mr. Boveé.*

History of method, psychology of language learning, values, objectives, teacher's library, technique of oral work, pedagogy of phonetics, phonetics applied to grammar, pedagogy of vocabulary, tests and measurements. Evaluation of texts, course intent.

601. PROBLEMS IN THE TEACHING OF READING. *Mr. Dalton, Mrs. Sutton.*

This advanced course in the teaching of reading will familiarize the student with the major causes underlying disability in reading and will guide him in planning a program that will to some extent prevent difficulties from arising. The student will be enabled, through observation and participation, to diagnose reading difficulties in the class room and to plan a corrective program of instruction based on that diagnosis. Students will become familiar with the significant body of research that indicates the important recent trends in the field of reading.

604. GUIDING THE READING OF CHILDREN. *Mrs. Dolvin.*

The study of literature and methods of reading guidance for children is based upon a careful consideration of their needs and interests. Books are discussed in relation to broad areas of interest. By means of individual projects, emphasis may be placed upon the problems of particular students.

631. PROBLEMS IN VOCAL MUSIC EDUCATION. 2½ hours.

Detailed study of voice problems from classroom point-of-view, beginning in elementary and continuing through secondary school; techniques used in choral ensembles; evaluation of present concepts and practices.

632. PROBLEMS IN INSTRUMENTAL MUSIC EDUCATION. 2½ hours.

Study of techniques used for development of the instrumental music program, beginning in elementary and continuing through secondary school; diagnosis of problems relating to strings, woodwinds, brasses, and percussion instruments.

633. MUSIC ADMINISTRATION AND CURRICULUM. 2½ hours.

Development of music curriculum as part of general educational planning; evaluation of school curricula and how music can become a functional part; problems in music administration, personnel, finances, and equipment.

634. CHORAL MUSIC MATERIALS. 2½ hours.

Study of music literature available for use in public schools at all levels of instruction; research in materials of various schools of composition and mediums which can be adapted for school use.

635. INSTRUMENTAL MUSIC MATERIALS. 2½ hours.

Evaluation of present materials available at all levels of instruction; research in materials of various mediums and schools of composition which can be adapted for school use.

667. DIAGNOSTIC AND CORRECTIVE TECHNIQUES IN SCHOOL SUBJECTS. Prerequisite: For advanced students well grounded in basic techniques in teaching. *Mr. Hall, Mr. Jordan, and instructors depending on the school subject involved.*

A study of techniques involved in locating blocks to the learning of children, and of procedures for overcoming such difficulties. Separate sections will be formed for the different school subjects and different age levels. A large amount of practice and individual investigations will be required: A mastery of the literature of experimentation in a given field may be expected.

717. PROBLEMS OF TEACHING. Prerequisites: Four courses in education. *Miss Burnham, Miss Cox, Mr. Dalton, Mr. Jordan, Miss Moore, and Mrs. Sutton.*

This course places special emphasis upon instructional procedures and evaluation of teaching in terms of child growth. Growth and the child's ability to use the skills and his ability to adjust socially and in the use of his creative ability will be emphasized.

PHILOSOPHY OF EDUCATION

803. PHILOSOPHY OF EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Mr. Morris.*

Problems of educational objectives; sources of a science of education; a study of the principal and progressive movements in education. Education for a changing social order: the new philosophy and the school; the new curriculum; reconstruction of educational ideas.

PLANNING EDUCATIONAL PROGRAMS

W560-W760. EDUCATIONAL PLANNING AND DEVELOPMENT. (No credit allowed if student has credit for Education 662). Workshops. *Mr. Dotson and Staff.*

The primary purpose of these workshops is to prepare selected school personnel for participating in programs of educational planning and development. The participants will have an opportunity to formulate plans for carrying on educational development of programs at the local school and county level and in special areas. A maximum of three workshops (15 hours) may be taken by any one registered.

The area of specialization of the registrant will determine which workshops are appropriate for him. Areas are indicated by the following subscripts:

.0 Curriculum	.11 Evaluation
.1 Agriculture	.12 Research and Measurements
.2 Home Economics	.13 Audio-visual Aids
.3 Health & Physical Education	.14 Resource Use
.4 Elementary	.15 Nutrition Education
.5 High School	.51 Administration
.6 Industrial Arts	.52 Supervision
.7 Distributive Education	.53 Counseling
.8 Library Service	.54 Visiting Teacher
.9 Art Education	.55 Supervising Teacher
.10 Music Education	

SUPERVISION OF TEACHING

730. SUPERVISING OF TEACHING. Prerequisites: Four courses in education and consent of the instructor. *Miss Burnham, Miss Cox, and Mr. Dalton.*

This course is open to supervisors, teachers, administrators, and curriculum workers. The course includes a comprehensive study of all social institutions engaged in the instructional process. The work centers about ways and means of improving instruction through an actual attack on selected instructional problems.

846. INTERNSHIP. *Authorized members of the College of Education Staff, (Major Professor).*

This course is a cooperative undertaking between the University of Georgia and school systems in the state. The purpose is to give the student carefully directed experience in selected schools. It is a study-work program. At least sixty hours are spent during the quarter in a class or conference type of activity where critical study is made of problems encountered by the intern; the remainder of the time is spent in applying the principles learned to the regular job. Contributing to this program are consultants from other teacher-education institutions, the State Department of Education, experienced supervisors, county superintendents, principals, and teachers.

847. INTERNSHIP. *Authorized members of the College of Education Staff, (Major Professor).*

This course is a continuation of the study and practice begun in Education 846.

TRADE AND INDUSTRIAL EDUCATION

641. SUPERVISION OF DIVERSIFIED COOPERATIVE TRAINING. *Mr. Haynes.*

A course intended for school superintendents and high school principals who have charge of diversified cooperative training classes, also for coordinators of such classes who anticipate supervisory responsibilities. Deals with federal and state requirements, budgetary control, social and labor legislation, evaluation of instruction, personnel and management, relations connected with the administration of diversified cooperative training.

642. SUPERVISION OF TRADE AND INDUSTRIAL TEACHING. *Mr. Haynes.*

Based on an analysis of the work of the vocational supervisors, this course will consider the functions of supervision and the necessary techniques and information which a supervisor must possess in securing the best results from the instruction which he supervises. Methods of appraising instruction and of training teachers will be emphasized.

643. CURRICULUM PLANNING FOR TRADE AND INDUSTRIAL SUBJECTS. *Mr. Haynes.*

A course for teachers and supervisors, dealing with specifications of the instructional situation in terms of objectives and facilities; selection from suitable occupational analyses or other sources of content to be taught; typical teaching plans for various units of instruction; evaluation and accrediting of learner accomplishment. Special emphasis will be given to curricula for area vocational schools.

644. COORDINATION OF DIVERSIFIED COOPERATIVE TRAINING. *Mr. Haynes.*

This course deals with procedures in organizing a diversified cooperative training program; selection and placement of trainees; analysis of job processes; organization of instructional material; methods of teaching; relationship with other phases of the high school program, with cooperating business establishments and with the public in general.

646. PROBLEMS IN TRADE AND INDUSTRIAL EDUCATION. *Mr. Haynes.*

The first unit of this course deals primarily with occupational analysis. In this connection various purposes and types of analyses as sources of teachable content for vocational subjects will be studied. The second unit of this course will deal with course organization. The topics in this unit will include specification of the teaching situation, nature of instruction units, use of occupational analysis, selecting both performance and informational content for the teaching situation and organization of this content into effective teaching sequence. The third unit of the course will deal with methods of teaching workshops. The topics studied will be the nature of performance learning, standards for learner accomplishments, methods of recording learner progress and demonstration of performance lessons. Each student will work out a list of performance lesson assignments and teaching plans in terms of the occupation which he is teaching.

657. TECHNIQUES IN TRADE AND INDUSTRIAL AND DISTRIBUTIVE EDUCATION. Prerequisite: Four courses in education including Education 646 and consent of instructor. *Mr. Haynes.*

This course deals with the techniques and principles of planning instructional programs in Trade and Industrial Education. Studies will be made of shop organization, the use of information and reference materials in teaching and the preparation of instructional materials. The preparation of instructional materials will involve gathering and organizing information dealing with the programs of Trade and Industrial Education in the United States and other countries.

VOCATIONAL EDUCATION

651. PROBLEMS IN THE TEACHING OF HOME ECONOMICS. (No credit allowed if student has credit for Education 873). *Miss Beall, Miss Moore, and Miss Todd.*

This course is designed to meet the needs of experienced teachers of home economics who want to get additional training in specific problems of teaching. The course is planned so that students may work at their special interests individually or in groups.

771. TEACHING PROCEDURES IN VOCATIONAL EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Moore, Mr. O'Kelley, Miss Todd, and Mr. Tolbert.*

This course is designed to meet the needs of those teachers of vocational agriculture and home economics who desire guidance in improving teaching procedures. Consideration is given to the development of curricula based on the needs and interests of students, the organization of the curricula into teaching units, the planning of units for instruction, teaching and evaluation.

772. EVALUATION IN VOCATIONAL EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Moore, Mr. O'Kelley, Miss Todd, and Mr. Tolbert.*

This course has two primary purposes: (1) to guide teachers, supervisors, and administrators to develop the ability to evaluate departments and programs of vocational education in schools and communities, and (2) to guide teachers in the development of methods and techniques for evaluating their own instruction. Techniques for studying and evaluating departments are developed and used in evaluating one or more vocational programs in a selected school or schools. Consideration is given to setting up evaluative techniques for measuring student development and the application of these techniques to teaching situations.

773. SUPERVISION OF VOCATIONAL TEACHING. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Mr. Duncan, Miss Moore, Mr. O'Kelley, Miss Todd, and Mr. Tolbert.*

In this course major emphasis is placed upon the following: (1) developing a point of view or philosophy of teacher education; (2) analyzing the present teacher training program in vocational education in Georgia, to discover problem situations that may be used as a basis for teacher education programs, (3) determining the relative emphasis for each teacher-training agency to place upon the solution of the several problems in the teacher-education program, and (4) projecting plans for an apprentice training program.

871. ADULT EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Todd, and Mr. Tolbert.*

The primary purposes of this course are: (1) to develop a philosophy of adult education, (2) to develop techniques for discovering adult problems, and (3) to discover and apply appropriate methods of organizing and teaching adult groups. The course is designed to meet the needs of experienced teachers, rural school supervisors and administrators, and other adult leaders.

873. PROBLEMS IN VOCATIONAL EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Moore, Mr. O'Kelley, Miss Todd, and Mr. Tolbert.*

This course is designed to meet the needs of experienced teachers of agriculture, teachers of home economics, and school administrators who want to get additional training in specific problems of teaching. The course is planned so that students may work at their special interest, individually or in groups.

C. Industrial Arts.

20. GENERAL SHOP. One single and four double periods. *Mr. Harrison, Mr. Pollock.*

A general survey course for acquainting the student with a wide variety of materials, tools, and procedures. Elementary work is done in metal, wood, drawing, electricity, and several crafts.

22. BEGINNING WOODWORK. One single and four double periods. *Mr. Pollock.*

A course designed for persons majoring in education and planning to teach. Includes the planning, construction, and finishing of projects in wood.

133. INDUSTRIAL ARTS FOR TEACHERS. One single and four double periods. *Mr. Pollock.*

A course designed for persons majoring in education and planning to teach. Emphasis is placed on the use of tools, materials, and procedures suitable for classroom work.

150. INDUSTRIAL ARTS DRAFTING. One single and four double periods. *Mr. Harrison, Mr. Pollock.*

A course in which a study is made of reading and writing a graphic language. A portion of the time will be devoted to developing working drawings which have application to industrial projects.

223. INDUSTRIAL ARTS DESIGN. One single and four double periods. *Mr. Harrison.*

A course in which good industrial arts designs are studied and the principles underlying good design are applied to plans developed by the students.

224. METAL WORK. One single and four double periods. *Mr. Harrison and Mr. Pollock.*

A beginning course in metal in which the use of hand tools with skill is emphasized. The course includes the planning, construction, and finishing of projects in metal.

225. ADVANCED WOODWORK. One single and four double periods. *Mr. Harrison.*

A continuation of beginning woodworking with more emphasis on power machinery.

228. ADVANCED GENERAL SHOP. One single and four double periods. *Mr. Harrison.*

A continuation of Education 20 in which the student works on advanced projects and gains experience in carrying on a general shop program.

330. ADVANCED DRAFTING. One single and four double periods. *Mr. Harrison, Mr. Pollock.*

A continuation of beginning drafting. Advanced problems in drafting and machine design are studied.

332. ADVANCED INDUSTRIAL ARTS FOR TEACHERS. One single and four double periods. *Mr. Pollock.*

A course designed for leaders in popular arts and crafts. Thought will be given to the place and type of arts and crafts program suitable for adults, camp counselors, teachers, homemakers, and others interested in creative activities.

340. MACHINE DRAFTING AND DESIGN. One single and four double periods. *Mr. Harrison.*

Advanced problems will be developed in drafting, such as shape description, auxiliaries, sections, perspective, and map drawing.

510-710. PRINCIPLES OF INDUSTRIAL ARTS EDUCATION. *Mr. Harrison and Mr. Pollock.*

A course which will include the history, principles, function, organization, and evaluation of industrial arts education.

550-750. ORGANIZATION OF SUBJECT MATTER IN INDUSTRIAL ARTS. *Mr. Harrison and Mr. Pollock.*

In this course necessary consideration will be given to the selection, organization, presentation, and interpretation of subject matter in industrial arts. Students will work out job plans, operation sheets, information sheets, and assignment sheets. Various industrial arts activities will be analyzed and appraised. Shop programs will be developed.

560-760. ADMINISTRATION OF INDUSTRIAL ARTS. *Mr. Harrison.*

Interpretation of industrial arts curriculum in terms of school and community needs. Organization and reorganization of shop programs. Cost accounting of materials, equipment, supplies, and housing. Care and repair of tools and equipment. The duties of the industrial arts administrator and supervisor. Shop planning and layouts.

570-770. SPECIAL PROBLEMS IN INDUSTRIAL ARTS. *Mr. Harrison.*

A course designed primarily for experienced industrial arts teachers who feel a need for improving their curriculum and teaching procedures. A student may broaden and intensify his training in a particular area of interest.

D. Distributive Education.

106. INTRODUCTION TO DISTRIBUTIVE EDUCATION. 3 hours. *Mr. Robins.*

A study of elements involved in the promotion, organization, and direction of distributive education programs, with emphasis upon the analysis of retail training provisions and procedures as established by the George-Deen and George-Barden Acts.

205. PSYCHOLOGY OF SELLING. *Mr. Robins.*

The principles underlying the practice of salesmanship from the point of view of the buyer and seller. Application through discussion and demonstration of the elements of sales psychology including such topics as developing selling qualities, customer characteristics, buying motives, steps of the sale, increasing the average sale.

305. ELEMENTS OF TEACHING DISPLAY. *Mr. Robins.*

A course dealing with the principles involved in teaching interior and exterior stores display. Introduction factors relating to the selling and advertising value of display, physical makeup of display, decorative effects and color schemes, modern interior and window illumination, motion in display, manufacturer's itinerant display, display budgets, and modern trends in display techniques.

306. MERCHANDISE INFORMATION. *Mr. Robins.*

Textile and non-textile merchandise studies including factors in importance in selling. Preparation of merchandise manuals on selected items.

355. RESEARCH METHODS IN DISTRIBUTIVE EDUCATION. *Mr. Robins.*

Through the application of individual research methods, students will survey and analyze the business in which they are receiving work experience, and prepare comprehensive teaching materials related to this study.

356. TEACHING RETAIL MANAGEMENT. *Mr. Robins.*

Covers organization, policies, location, control, building and equipment, layout, and personnel problems of the retail store. Emphasis placed on leadership and executive training.

607. CURRICULUM CONSTRUCTION IN DISTRIBUTIVE EDUCATION. 3 hours.

A workshop devoted to the construction of teaching outlines for use in distributive education and store training classes. Analysis of factors employed in the selection and organization of course materials, construction of topical outlines with the related factors of teaching methods, time elements and printed materials.

E. Library Service

L.S. 301. LIBRARY GUIDANCE FOR TEACHERS AND ADMINISTRATORS. Prerequisite: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

A non-technical course for prospective teachers and administrators interested in the relation of the school library to modern teaching methods, and designed primarily to inform them of library methods in their special fields. All types of enrichment materials are included and bibliographic work is introduced through problems chosen by the students.

L.S. 302. PRINCIPLES OF BOOK EVALUATION. Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

An introduction to the principles of evaluating books in terms of the clientele of the library for which they are to be purchased, with special emphasis on the school library and the small public library. Problems in the use of reviewing and indexing publications will be used in acquainting students with methods of selecting books for purchase.

L.S. 303. UTILIZATION OF LIBRARY MATERIALS. Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

An introduction to the use of dictionaries, encyclopedias, indices, and similar reference books commonly found in the small library. Attention will be given to the use of the library as an information laboratory for the school or for the community. Practice problems in answering reference questions will be assigned.

L.S. 304. ORGANIZATION OF LIBRARY MATERIALS. Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

A course to acquaint the student with the fundamental principles of the organization of small libraries, with particular emphasis on the uses of printed catalogues and catalogue cards. Author entries, simple collation, subject headings, abridged Dewey Decimal Classification, and rules for filing will be included.

L.S. 305. ADMINISTRATION OF A SMALL LIBRARY. Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

A course to acquaint the student with overall relationships between the library and the institutions of which it is a part. Problems of building, supplies, accounting, records and reports, personnel, discipline, routines, and the like will be discussed.

L.S. 306. LITERATURE FOR CHILDREN AND ADULTS. Prerequisite: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

A survey of the literature suitable for children and adolescents, with special attention to reading interests at the various age levels. Extensive reading and examination of standard and current books will be required.

F. Health and Physical Education.

Services Courses

1-2. PHYSICAL EDUCATION. 10 hours.

Women. Three hours a week for six quarters. Physical Education Building, South Campus and Pound Auditorium, West Campus. *Physical Education Staff.*

Women students may select activities which best meet their special needs and interests based upon their health, organic fitness, and previous experience in physical education. The activities include archery, badminton, basketball, body mechanics, bowling, creative dance, field hockey, folk dancing, fundamentals of movements, golf, horseback riding, recreational games, softball, soccer, swimming, tennis, tumbling, volleyball, and others.

Men. Three hours a week for six quarters. Stegeman Hall. *Physical Education Staff.*

The physical fitness and swimming tests will be given each quarter. Activities include touch-football, soccer, speedball, volleyball, swimming, badminton, tennis, golf, horseback riding, basketball, tumbling, apparatus, softball, track and field, weight lifting, and others.

Professional Courses

PHYSICAL EDUCATION

40a-b-c. SKILL TECHNIQUES FOR MEN. 9 hours (3 hours a quarter. Five periods a week required). Stegeman Hall and Memorial Hall. *Mr. Gabrielsen.*

This course provides demonstrations and practice, including methods and techniques, in teaching such activities as apparatus, tumbling, stunts and pyramids, aquatics, water safety, water shows, golf, and tennis.

307. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. South Campus. *Miss Russell.*

This course is designed to help the teacher plan, teach, and evaluate physical education activities based upon an understanding of the unique contribution of physical education to the developing child, of learning sequences in fundamental physical skills, desirable safety measures in activities such as games, rhythms and stunts.

315. AQUATICS. 3 hours. Prerequisite: Intermediate swimming or the consent of the instructor. South Campus. *Miss Lewis.*

This course prepares students for the American Red Cross Instructor's Water Safety Course. It is recommended to students who are interested in camping activities.

352 a-b-c. TEAM SPORTS FOR WOMEN. 9 hours (3 hours a quarter). Prerequisite: One quarter in each sport or consent of instructor. South Campus. *Miss Lewis and Miss Russell.*

The student is given actual experience in coaching and officiating in class and intramural games. The Women's National Official Rating Examination will be given in volleyball, basketball, and softball.

353 a-b-c. PHYSICAL EDUCATION ACTIVITIES FOR WOMEN. 9 hours (3 hours a quarter). Prerequisite: One quarter in the activity engaged in. South Campus. *Miss Lewis and Miss Miller.*

Theory, practice, and technique of archery, tennis, soccer, and speedball. Study of dance as a basic medium of education.

360. KINESIOLOGY. South Campus. Prerequisite: Zoology 312a. *Miss Keaster.*

Application of the physical and physiological principles involved in body mechanics. Physical laws governing the manipulation of objects in sports are studied.

361. THERAPEUTICS OF EXERCISE. South Campus. Prerequisite: Physical Education 360. *Miss Keaster.*

The techniques of appraisal and guidance of pupils with faulty body mechanics, orthopedic defects, and other atypical conditions. Practice is given in the therapeutic use of exercise, massage, relaxation, and other physical modalities.

372. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. Memorial Hall. *Mr. Gabrielsen.*

A survey of the history and study of principles and trends in health, physical education and recreation, professional organizations, literature, and outstanding programs.

376. ORGANIZATION AND ADMINISTRATION. South Campus. (Same as Education 336.3). *Mr. Gabrielsen and Mrs. Soule.*

Special emphasis and consideration of procedures, materials, and techniques to be used in setting up an effective physical education program.

380 a-b-c. THEORY, COACHING METHODS, AND OFFICIATING OF MAJOR SPORTS. 9 hours. (3 hours each quarter). Prerequisite: Senior level standing. Memorial Hall. *Coaching Staff.*

Theory and coaching techniques of major sports including football, basketball, baseball, and track, are considered in this course. Various coaching systems, stressing their strong and weak points, the study of the various positions of the teams, as well as scheduling, transportation, diets, publicity, and other administrative problems are covered. Participation in and planning of University Intramural Sports program, as well as officiating in the various sports, will be included.

381 a-b-c. SKILL TECHNIQUES FOR MEN. 9 hours. (3 hours each quarter. Five periods a week required). Stegeman Hall and Memorial Hall. *Physical Education Staff.*

This course provides demonstration and practice in teaching methods and techniques in such activities as volleyball, badminton, handball, combatives, calisthenics, marching, relays, games of low organization, speedball, soccer, archery, table tennis, paddle tennis, deck tennis, and squash.

383. EVALUATION AND MEASUREMENTS. 3 hours. Memorial Hall. *The Staff.*

A study of the methods in evaluating and testing physical education activities; procedures to be used in evaluating these tests and their results, including statistical analysis, are considered.

513-713. PHYSICAL EDUCATION IN THE SCHOOL PROGRAM. Prerequisites: Four courses in education. South Campus. *Mr. Gabrielsen, Mr. Smith, and Mrs. Soule.*

Designed to help teachers and administrators to evaluate and understand the place of physical education in education. The needs of students, both individual and group, programs, equipment, facilities, and their relation to the school and the community are studied.

714-715. (Workshop). PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION. 5 or 10 hours. *Mr. Gabrielsen, Mr. Smith, and Mrs. Soule.*

A course of the workshop type dealing with the problems met in the development of a comprehensive program of health education, physical education and recreation in the school and school community. Special emphasis on problems identified by the student.

HEALTH EDUCATION

19. FIRST AID AND TREATMENT OF ATHLETIC INJURIES. 3 hours. Memorial Hall. *Mr. Wilson.*

A study of the problems and practical applications in first aid and the common injuries received in athletic participation.

344. PROBLEMS IN HEALTH EDUCATION. South Campus. *Miss Keaster.*

Emphasis is placed upon the control of communicable diseases, safety education, nutrition, personal health problems, dental health education, and human relationships as they affect the growth and development of the child. Healthful environment, teachers' responsibility in health guidance, and ways to effective health instruction will also be considered. Designed for education majors and others interested in school and community health education.

370. SCHOOL HEALTH EDUCATION. South Campus. Prerequisite: Education 304 and 20 hours in Science. (Same as Education 335.3). *Mrs. Soule.*

Consideration of techniques for recognizing health needs and interests of people in relation to their environment; of pupil experiences and materials to meet these needs; of integrating classroom health activities with health resources in the community.

371. PERSONAL AND COMMUNITY HEALTH PROBLEMS. South Campus. *Mrs. Soule.*

A study of current information in the areas of personal health and human relations, nutrition, mental health, sanitation, dental health, communicable disease control, etc., as these apply to healthful living for individuals and groups.

377. SAFETY EDUCATION. Memorial Hall. *The Staff.*

This course deals with the problems, policies, principles, and methods involved in safety and accident prevention programs, as well as the programs of traffic safety and the teacher driver education and training in high schools. Individuals completing this course will be certified as driver education instructors by the State Department of Education. A charge of \$2.50 will be paid by each enrollee to cover expenses.

511-711. HEALTH EDUCATION IN SCHOOL AND COMMUNITY. Prerequisite: Four courses in education. South Campus.. *Mr. Gabrielsen, Mr. Smith, and Mrs. Soule.*

Analysis of problems in health education as they pertain to children in school and out of school, and to adults; the place of the classroom teacher and the school administrator in the health program. Opportunity for independent study will be provided whenever possible.

714-715. (Workshop). PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION. 5 or 10 hours. *Mr. Gabrielsen, Mr. Smith, and Mrs. Soule.*

A course of the workshop type dealing with the problems met in the development of a comprehensive program of health education, physical education and recreation in the school and school community. Special emphasis on problems identified by the student.

RECREATION

18. SOCIAL RECREATION. 3 hours. South Campus. *The Staff.*

Discussions, participation, and practical experience in conducting social activities, including parties, folk games, skits, mixers, community sings, holiday celebrations, and special occasions.

384. INTERPRETATION OF RECREATION. 3 hours. Memorial Hall. *Mr. Gabrielsen.*

Current programs and practices in recreation are studied in relation to our social and economic culture. Opportunities are given to observe recreational programs in operation.

385. PROBLEMS IN RURAL RECREATION. 3 hours. Memorial Hall. *Mr. Wilson.*

The use of community resources in planning for rural recreational programs. Observation of functioning programs will be made when possible.

386. CAMPING LEADERSHIP. 3 hours. South Campus. *Miss Lewis and Mr. Wilson.*

The study of the duties and responsibilities of camp counselors, cabin counselings, and leadership techniques in program activities.

387. COMMUNITY RECREATION. 3 hours. Memorial Hall. *Mr. Gabrielsen.*

The study of the organization and administration of recreational programs which fill the leisure time needs of the total community. A review of several community programs will be made when possible.

512-712. SCHOOL AND COMMUNITY RECREATIONAL PROGRAMS. Prerequisite: Four courses in education. Memorial Hall. *Mr. Gabrielsen, Mr. Smith, and Mrs. Soule.*

A study of philosophy, program materials, facilities, equipment, and general supervision. Opportunities will be provided for observation, participation, and study of outstanding recreational programs.

DANCE

311. FOLK DANCING. 3 hours. Prerequisite: One quarter of folk dance or permission of instructor. South Campus. *Miss Lewis.*

This course provides opportunities for practice and direction in American and foreign Folk Dancing.

CREATIVE DANCE. The introductory* as well as the following upper division courses provide the opportunity to study dance as creative and artistic expression of individual personality.

357. INTERMEDIATE DANCE COMPOSITION. 3 hours. Prerequisite: One quarter creative dance. South Campus. *Miss Miller.*

The study of force, time, and space as the elements of expressive movement. Individual and group problems.

*A sequence of three introductory classes in Creative Dance is offered each quarter as a part of the service (Physical Education 1-2) program. These classes include both technique and composition.

358. INTERMEDIATE DANCE COMPOSITION 2. 3 hours. Prerequisite: Two quarters of dance or consent of instructor. South Campus. *Miss Miller.*

A continuation of 357 and including the study of visual design in relation to movement, rhythmic form and notation.

359. DANCE HISTORY. 3 hours. Prerequisite: One quarter in dance. South Campus. *Miss Miller.*

Consideration is given to the history and theory of dance as education, recreation, and art: its relationship to other modes of human expression; and the study of representative dance forms from the primitive through more advanced periods of civilization.

368. DANCE ACCOMPANIMENT. 3 hours. Prerequisite: One quarter of dance. South Campus. *Miss Miller.*

Sound in relation to movement. Voice, sounds of the environment and various instruments used in movement and accompaniment.

399. ADVANCED DANCE. Prerequisite: Physical Education 358 or consent of the instructor. South Campus. *Miss Miller.*

Advanced problems in technique and composition including problems of production, costuming, staging, and group direction.

THE COLLEGE OF BUSINESS ADMINISTRATION

THE FACULTY

JAMES EDWARD GATES, B.S., Ph.D., *Dean.*

ROBERT TAYLOR SEGREST, B.S.C., M.S.C., *Associate Dean.*

HOPE SWINDEL SAILORS, *Secretary.*

OSCAR DWIGHT BEVERLY, B.S., M.S., *Assistant Professor of Accounting.*

ROBERT EDWARD BICKNER, B.A., M.A., *Instructor in Economics.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Professor of Economics and Dean of Faculties.*

HOMER AUGUSTUS BLACK, B.B.A., M.B.A., C.P.A., *Associate Professor of Accounting.*

ROBERT PRESTON BROOKS, A.B., Ph.D., *Professor of Economics and Emeritus Dean of Faculties.*

JOHN FRANCIS BURKE, B.B.A., M.B.A., C.P.A., *Professor of Accounting and Assistant Director of the Bureau of Business Research.*

JOHN ELMER CHAMPION, B.B.A., M.B.A., *Assistant Professor of Accounting.*

A. ALDO CHARLES, B.S., LL.B., M.Ed., D.Ed., *Professor of Economics.*

MORRIS WILLIAM HOLLOWELL COLLINS, JR., B.A., M.A., *Assistant Professor of Political Science.*

JOHN EDWARD DEAN, A.B., M.B.A., LL.B., C.P.A., *Assistant Professor of Accounting.*

WILLIAM HEFLIN DODDS, B.C.S., *Temporary Instructor in Economics.*

*ROBERT LAWRENCE FROEMKE, B.S., M.S., *Instructor in Business Administration.*

JAMES TEASLEY FRYE, B.B.A., M.B.A., *Instructor in Business Administration.*

JAMES EDWARD GATES, B.S., Ph.D., *Professor of Economics and Dean of the College of Business Administration.*

JOHN STANLEY GRAY, A.B., A.M., Ph.D., *Professor of Psychology.*

HAROLD MILTON HECKMAN, B.S.C., M.A., C.P.A., *Professor of Accounting.*

WILLIAM TROTTER HICKS, B.S., M.S., Ph.D., *Professor of Marketing and Director of the Bureau of Business Research.*

BONNIE BELLAMY HOWARD, B.B.A., M.B.A., *Instructor in Business Administration.*

ROBERT LORENZ, M.A., Ph.D., *Associate Professor of Economics.*

HAROLD WILLIAM MOORHOUSE, A.B., M.B.A., *Visiting Professor of Economics and Assistant Director of the Bureau of Business Research.*

LAWRENCE JOHN NACHTRAB, B.S.A.E., CAA Rated, C.E., *Associate Professor of Business Administration.*

CLIO CROSBY NORRIS, A.B., *Assistant Director of the Bureau of Business Research.*

GEORGE SPIRO PETRAS, B.S., A.M., *Instructor in Economics.*

*On leave.

MERLE CHARLES PRUNTY, JR., B.S., A.B., A.M., Ph.D., *Professor of Geography and Geology.*

EINAR RASMUSSEN, B.S., M.A., *Assistant Professor of Business Administration.*

GEORGE OVERTON RIGGS, A.B., M.B.A., *Instructor in Economics.*

COSTIC ROMAN, B.S., M.A., *Instructor in Business Administration.*

ALBERT BERRY SAYE, A.B., M.A., Ph.D., *Professor of Political Science.*

GREGOR SEBBA, Dr. of Pol. Sci., Dr. of Law, *Professor of Economics.*

ROBERT TAYLOR SEGREST, B.S.C., M.S.C., *Professor of Economics and Associate Dean of the College of Business Administration.*

HOWARD ROSS SMITH, A.B., M.S., Ph.D., *Professor of Economics.*

GLENN WALLACE SUTTON, B.S., M.A., Ph.D., *Professor of Finance.*

EMIL SAMUEL TROELSTON, B.S., A.M., Ph.D., *Associate Professor of Economics.*

LAURENCE HENRY WALKER, B.S.Ed., M.Ed., *Assistant Professor of Economics.*

LELAND CARLING WHETTEN, B.S., M.B.A., *Assistant Professor of Business Administration.*

CLAUDE RALPH YOUNGBLOOD, B.S.C., M.S.Ed., M.Ed., *Assistant Professor of Economics.*

OMER CLYDE ADERHOLD, B.S.A., M.S., Ph.D., *President of the University.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Dean of Faculties.*

JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Dean of Student Affairs.*

WALTER NEWMAN DANNER, JR., B.S.A.E., M.S.A., *Registrar and Director of Admissions.*

JOHN DIXON BOLTON, C.P.A., *Comptroller and Treasurer.*

ORGANIZATION AND PURPOSE

The College of Business Administration was authorized by the Board of Trustees in 1912 and began operations in 1913. For many years it was called the School of Commerce. Since 1926 the College has been a member of the national standard-setting organization, The American Association of Collegiate Schools of Business.

The primary aims of the College are to provide a foundation of general culture, to broaden the viewpoint and develop sound thinking and, at the same time, to supply practical training for students who wish to prepare for business and commercial careers. This training includes many courses designed to provide an understanding of the history and general principles that underlie the present economic organization of society, as well as courses devoted to special subjects of a technical character. Fields covered are accounting, aeronautical administration, general business, economics, finance, industrial relations, marketing, public administration, insurance and real estate, secretarial studies, and economic statistics.

The curriculum of the College, however, is by no means restricted to purely economics and business courses. The requirement of the American Association of Collegiate Schools of Business is that at least 40 per cent of the credit hours required for graduation must be in liberal or cultural courses. A list of courses of this character, so essential in the training of a well rounded college graduate, will be found under Degree Requirements. The degree of Bachelor of Business Administration is awarded upon completion of the four-year course.

EQUIPMENT

The College is housed in a modern, commodious, and attractive building, constructed for the joint occupancy of the College of Business Administration and the School of Journalism. In 1948 a large addition was made to the building and the interior of the other portion was remodeled to provide necessary facilities for the increasing enrollment.

The College of Business Administration Library has its own collection of material, which is additional to the facilities of the General Library. The collection contains economic and business publications. The College subscribes regularly to important periodicals in the general field of business, finance, and industry, including the statistical services of Babson Institute, Brookmire, Moody, and Standard and Poor. It has also a good pamphlet file and some of the outstanding financial and commercial newspapers. A full time librarian and several student assistants are in charge.

The College of Business Administration is equipped with the various types of machines common in business: adding machines, bookkeeping machines, mimeograph equipment, and dictating machines. In addition, International Business Machines Corporation equipment is available for instructional purposes in the laboratories. The latest types of this punch card accounting machinery are included, such as sorters, punches, tabulators, and summary punches. Alphabetical punch card equipment has recently been added to the numeric machines.

TRANSFER STUDENTS

The first two years of a number of University curricula often provide for general courses, such as History 110x-y, (History of Western Civilization), English 22x-y, (Survey of European Literature), and others shown below as required in the curriculum of this College. Students who transfer with less than junior standing and without credit for the general courses required in this curriculum will be required to take them here unless they have credit for courses of equal value in the same fields.

In the case of students who transfer with junior standing from standard colleges without these general courses, provisions are made for substitution of courses in the same fields. The junior-senior courses are arranged so that a student who has completed the freshman and sophomore years at a standard institution with satisfactory grades can ordinarily complete the Bachelor of Business Administration degree requirements in six quarters.

Where a prospective student is in doubt as to the manner in which this rule works a letter of inquiry should be sent to the Dean, College of Business Administration.

CREDIT HOURS REQUIRED FOR GRADUATION

A grade of "D" or "D plus," while giving hours credit, is considered by the faculty of the College of Business Administration to represent inadequate accomplishment in pursuing the specialized courses required for the B.B.A. degree. Candidates for the Bachelor of Business Administration degree must earn at least a grade of "C" in the following courses:

Economics 5x and 5y; Business Administration 6x and 6y; Business Administration 8; the core curriculum; and at least four of the courses required in the major concentration group. Should a student receive a grade of "D" or "D plus" in any course that is prerequisite to another, he can register for the second course before he achieves the necessary minimum grade on the prerequisite only with the permission of his major professor.

BUSINESS PRACTICE

The College of Business Administration with the cooperation of certain business firms has arranged for a few carefully selected students to obtain actual experience in business while still pursuing work toward the degree of Bachelor of Business Administration. Such students, upon the recommendation of the professor in charge of the major concentration group, may, with the approval of the Dean of the College and the College Executive Committee, be permitted to enter a cooperating business establishment in Atlanta or other city and spend a quarter in learning first hand something of the operation of the business. This arrangement is limited to selected students within 55 hours of graduation. A maximum of fifteen hours of elective credit will be given for the quarter. While absent from the University the students will be under supervision of their major professors. Grades for this work will depend upon the report by the head of the business as well as upon such written reports as may be required from the student.

Application for permission to register for business practice (Business Administration 340) must be made through the student's major professor during the quarter preceding the planned registration. Students approved for this privilege will be required to register in the usual way and pay the prescribed fees.

ORGANIZATIONS

The national honor society for students of schools of business, Beta Gamma Sigma fraternity, has a charter in practically every member institution of the American Association of Collegiate Schools of Business. The Alpha chapter of Georgia was the sixth established of the forty-eight chapters now active. The purpose of this fraternity is to encourage and reward scholarship and achievement. Every year about ten percent of the seniors are awarded the Beta Gamma Sigma key.

Business Administration students are eligible for election to The Honor Society of Phi Kappa Phi, and those who have a large proportion of their work in liberal arts subjects, including economics, are eligible for election to Phi Beta Kappa.

The College also has chapters of the three leading professional organizations for students of schools of business, the Alpha Kappa Psi, the Delta Sigma Pi, and the Phi Chi Theta fraternities. Delta Sigma Pi awards annually a key to the most distinguished Business Administration graduate of the year, while Phi Chi Theta awards a key to the most distinguished woman graduate, and Alpha Kappa Psi awards a gold key each year to the male Business Administration student having the highest scholastic average during three years at the University of Georgia.

The Economics Society is an organization in which membership is open to all students enrolled in the College of Business Administration who have an average grade of "C" or better. Students enrolled in other colleges who are interested in economics are invited to become members.

BUREAU OF BUSINESS RESEARCH

The College of Business Administration established a Bureau of Business Research in 1929. A program of research on specific economic and business problems of Georgia is carried on by both faculty members and students of the College.

A monthly report on Retail Trade Trends in Georgia is prepared, showing variations for twelve kinds of businesses. Separate trends are calculated for Atlanta, Augusta, Columbus, Macon, Savannah, and Albany. Approximately 60 stores cooperate by supplying monthly reports of their retail sales to the Bureau of Business Research. This program is carried on in cooperation with the Bureau of the Census.

Georgia Business, a monthly review of business activity, is published by the Bureau. Statistical indexes showing changing economic conditions in the United States with particular attention to the effects upon Georgia are summarized. A composite index of business activity in Georgia is also presented. The bulletin is available without charge to citizens of Georgia.

Currently the Bureau of Business Research is devoting special attention to developing research facilities for use by the students and faculty of the College of Business Administration. The Bureau cooperates with state and federal agencies and private firms in conducting studies and distributing information on problems of economic interest to Georgia.

GRADUATE STUDY

In the Graduate School of the University the degrees of Master of Business Administration, Master of Science in Business Administration, and Master of Arts with a major in economics are offered.

The Master of Business Administration is a professional degree designed for students intending to enter directly into business. Requirements are flexible to meet the needs of graduates of liberal arts colleges as well as professional and technical schools. A program of four quarters of graduate work will be necessary for applicants holding the B.A. degree or its equivalent and from four to six quarters for applicants holding degrees in other fields. Neither a thesis nor a reading knowledge of a foreign language is required under this program. At least fifteen hours of each student's program must be in courses numbered 800.

Through special arrangement with the School of Journalism the degree of Master of Business Administration may be taken as a combination curriculum of the School of Journalism and the College of Business Administration, leading to the degree of A.B. in Journalism in four years, and the M.B.A. after an additional four quarters of study. This program is designed to aid those anticipating interpretative writing in economics and related fields, and also those who plan to work in the business phases of journalism. For details of this program see the bulletin of the School of Journalism.

Graduate training in research methods is provided by a program leading to the degree of Master of Science in Business Administration. Based upon forty quarter hours of graduate work, a thesis, and a reading knowledge of a foreign language, this degree is specifically designed for students desiring experience in business and economic research. A minimum of three quarters of graduate work for applicants holding the B.B.A. degree or its equivalent is necessary. A major of twenty hours and one minor of ten quarter hours must be chosen from graduate courses in economics and business administration. One minor of ten quarter hours may be taken in a related field. The student has the opportunity of selecting a major from the specialized fields of accounting, economics, finance, industrial relations, marketing, public administration, and economic statistics. Fifteen hours of graduate study may be taken in other Schools and Colleges of the University.

The Master of Arts degree with a major in economics is available for Bachelor of Arts and Bachelor of Science graduates who have the essential background in economics. It is also open to holders of the Bachelor of Business Administration degree who are qualified with respect to the language and other liberal arts requirements.

REQUIREMENTS FOR THE DEGREE

FRESHMAN AND SOPHOMORE YEARS

The major part of the work in the freshman and sophomore years consists of general courses from the offerings of the College of Arts and Sciences. Courses of this type account for 73 of the 96 credit hours of the first two years. The purpose of these courses is to lay a broad foundation of cultural work so that the student may have some knowledge of history, government, science, and literature before undertaking specialized work. The remaining 23 credit hours are given to necessary courses introductory to the specialized curricula of the junior and senior years. They are:

Principles and Problems of Economics	10 hours
Elementary Accounting	10 hours
Business Correspondence	3 hours
Orientation to Business	0 hours

In detail the work of the first two years is as follows:

(Item references are to summary of total requirements as listed below).

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2x-2y	10	English 22x-22y	10
Mathematics 101x, 102	8	Political Science 1	5
(See Items 2 and 3)		Business Administration 8	3
Science (See Item 4)	10	Science (See Item 4)	10
Social Studies or		Economics 5x-5y	10
Foreign Language (See Item 5)	10	(See Item 11)	
History 110x-110y	10	Business Administration 6x-6y	10
Business Administration 1 a-b-c	0	(See Item 12)	
(See Item 8)		Military Science 2 or Air Science 6	5
Military Science 1 or Air Science	5	Physical Education 2 (for men)	0
Physical Education 1 (for men)	0	or	
or		Physical Education 2 (for women)	5
Physical Education 1 (for women)	5		
	—		—
Total	53	Total	53

JUNIOR YEAR

(NOTE: Students admitted to the junior class of the College of Business Administration are presumed to possess satisfactory skill in Business Mathematics and proficiency in the correct usage of English. As candidates for the degree of Bachelor of Business Administration they are expected to maintain reasonable standards in each of these.

Those students who, by examination or by the quality of their written work (examinations, reports, etc.), show a lack of reasonable proficiency will be required to complete satisfactorily such remedial courses as are assigned by the Dean of the College, *prior* to graduation. These courses will be in addition to those set out as requirements for the degree of B.B.A.)

In the junior year all candidates for the degree of Bachelor of Business Administration are required to take a core curriculum which has been arranged so as to include introductory courses in most of the fields of concentration. This core curriculum is as follows:

- ECONOMICS 312—Elementary Economic Statistics.
- ECONOMICS 326—Money and Banking.
- ECONOMICS 333—Economic History of the United States.
- ECONOMICS 360—Principles of Marketing.
- ECONOMICS 386—Labor Economics.
- BUSINESS ADMINISTRATION 351—Industrial Management.
- BUSINESS ADMINISTRATION 370—Business Law—first course.

It is preferable that the two courses remaining to complete a normal schedule should be chosen from subjects not offered in the College. Students who plan to major in accounting will desire to begin their advanced accounting courses during the junior year. Students who desire to major in statistics will find it necessary to take required mathematics prerequisites as their electives as set forth under the description of that concentration group.

SENIOR YEAR

The senior year is a year of specialization. The student will select his group and in consultation with the chairman of the group will work out his program for the year. In each group six courses are required plus Business Administration 395, Personal Adjustment to Business.

These courses complete the minimum of 89 hours in Business Administration and Economics necessary for the B.B.A. degree. The additional twenty-four hours necessary to complete the 186 hours (exclusive of Military Science 1-2 or Air Science 5-6 or Physical Education 1-2) required for graduation may be chosen either from the offerings of the college or from the general electives of the University. This arrangement will facilitate various combinations, such as business and art, business and music, or business and journalism.

TOTAL REQUIREMENTS

	Hours
1. English 2x-2y, Grammar and American Literature	10
2. Mathematics 101x, College Algebra	5
At least two units in high school mathematics, including one year of algebra, are required as a prerequisite. Students who have insufficient high school preparation or who for other reasons are deficient in their mathematics are required to take Mathematics 99, a remedial course in algebra.	
3. Mathematics 102, Mathematics of Finance	3
Mathematics 101x must be satisfactorily completed before scheduling Mathematics 102.	
4. Science	20

Two double courses, one of which must be a laboratory course, to be selected from the following:

- Botany 21-22 (Lab.)
- Chemistry 21-22 (Lab.)
- Geology 25-26 (Lab.)
- Geography 121-122
- Human Biology 1-2
- Mathematics 101y, 110
- Physics 20, 27, 28, 329 (Lab.)
- Zoology 25-26 (Lab.)

5. Social Studies or Foreign Language 10
 Students who elect Social Studies must take two courses from the following:

- Geography 101—World Human Geography
- Philosophy 104—Introduction to Philosophy
- Psychology 1—Introduction to Psychology
- Social Science 4—Contemporary Georgia
- Sociology 5—Introduction to Sociology

Students who elect foreign language must take ten hours in one language. A student wishing to continue his high school language must take language 103 and 104 as college credit will not be given for 101 and 102 if high school units have been presented in this language.

NOTE: Students planning to continue work toward a Master of Science in Business Administration degree should select foreign language instead of social studies as a reading knowledge of foreign language is required for the advanced degree.

- 6. Political Science 1, American Government 5
 - 7. Business Administration 8, Business Correspondence 3
 - 8. Business Administration 1 a-b-c, Orientation to Business 0
- NOTE: Transfer students with junior standing are not required to have this course for the B.B.A. degree.
- 9. English 22x-22y, Survey of European Literature 10
 - 10. History 110x-110y, History of Western Civilization 10
 - 11. Economics 5x-5y 10

These two courses are prerequisite to all advanced courses in economics and business administration except by special permission of the instructor.

- 12. Business Administration 6x-6y, Principles of Accounting 10

These two courses are prerequisite to all advanced accounting courses.

- 13. Junior Core Curriculum 35
- 14. Major Concentration Group 30
- 15. Business Administration 395, Personal Adjustment to Business 1
- 16. Electives 24

It is preferable that the elective courses should be selected from subjects not offered in the College of Business Administration.

- 17. Total Requirements 186

(Exclusive of Military Science 1-2 or Air Science 5-6, and Physical Education 1-2)

SUMMARY OF DEGREE REQUIREMENTS

(Exclusive of Military Science 1-2 or Air Science 5-6, and Physical Education 1-2)

	Hours
Required freshman and sophomore courses in the College of Arts and Sciences	73
Principles and Problems of Economics	10
Elementary Accounting	10
Business Correspondence	3
Orientation to Business	0
Junior Core Curriculum	35
Major Concentration Group	30
Personal Adjustment to Business	1
Electives	24
Total	186

MAJOR CONCENTRATION GROUPS

ACCOUNTING

Mr. HECKMAN, Chairman

Accounting knowledge is fundamental in business whether it be in retailing or wholesaling, manufacturing or selling. Internal control can be secured only through intelligent use of business statements and reports. The course in accounting is designed to give an understanding of the principles and practices in the control of business through records and reports, and likewise a knowledge of how to prepare these essential records and reports. Governmental regulations and taxation further emphasize the necessity of accounting knowledge.

Recommended courses for majors in private accounting:

	Hours
Business Administration 311, Introductory Cost Accounting	5
Business Administration 413, Advanced Cost Accounting	5
Business Administration 415, Income Tax Accounting	5
Business Administration 419, Tax Accounting	5
Business Administration 449, Analysis of Financial Statements	5
Business Administration 453, Accounting Theory, first course	5
Business Administration 454, Accounting Theory, second course	5
Business Administration 479, Functions of the Controller	5

The program in public accounting is designed to furnish adequate preparation for the public accountants examination to those students who plan to enter the professional field for public accounting. Public accounting includes the fields of auditing, system installations, and tax procedures. In order to complete preparation for the State CPA examination a fifth year of study devoted primarily to accounting subjects is recommended. The Georgia CPA law requires three years of practical experience prior to the issuance of a certificate, one year of which is cancelled for those graduates who have majored in accounting.

Recommended courses for public accounting:

	Hours
Business Administration 311, Introductory Cost Accounting	5
Business Administration 315, Punch-card Equipment	5
Business Administration 371, Business Law, second course	5
Business Administration 415, Income Tax Accounting	5
Business Administration 417, C.P.A. Review	5
Business Administration 418, Municipal Accounting	5

Business Administration 419, Tax Accounting	5
Business Administration 453, Accounting Theory, First course	5
Business Administration 454, Accounting Theory, Second course	5
Business Administration 456, Accounting Problems	5
Business Administration 457, Consolidated Statements	5
Business Administration 472, Auditing Principles	5
Business Administration 473, Auditing Problems	5
Business Administration 481, Accounting Systems	5

AERONAUTICAL ADMINISTRATION

MR. NACHTRAB, Chairman

In view of the expanding development of air transportation, there is a growing demand for college graduates trained in management or administration of aircraft manufacturing or transportation industries and as airport and airline managers. In preparation for a career in this field, this major concentration group offers courses covering aerial navigation, meteorology, aircraft and principles of flight and Civil Air Regulations as well as the business administration aspects of this industry. The student will also receive the same general training in business and economics as majors in other special groups.

	Hours
Business Administration 320, Commercial Aviation	5
Business Administration 321, Aerial Navigation	5
Business Administration 322, Civil Air Regulations and Meteorology.....	5
Business Administration 323, Aircraft Powerplants	5
Business Administration 325, Aircraft and Theory of Flight	5
Business Administration 427, Airport Management and Operation.....	5
Business Administration 428, Airline Administration and Practice.....	5
Economics 475, Economics of Transportation	5
Economics 485, Personnel Administration	5

ECONOMICS

MR. SMITH, Chairman

An understanding of the economic realities of today's world has come to be an essential for the effective management of both private and public enterprise. Leaders in both of these important areas must have an appreciation of the impact of their actions on the nation as a whole, and also an appreciation of the significance of general economic developments for the decisions that they make. Only through intelligent planning and coordination based upon an understanding of fundamental economic relationships can our nation adequately fulfill its responsibilities both at home and abroad. The program of training in economics is an outgrowth of this basic need.

	Hours
Economics 406, Economic Theory	5
Economics 434, Public Finance	5
Economics 436, Business Cycles	5
Economics 437, Comparative Economic Systems	5
Economics 444, Government Control of the Economic System	5
Economics 450, Monetary Policy	5
Economics 455, Contemporary Economic Problems	5
Economics 475, Economics of Transportation	5
Economics 477, Public Utilities	5
Economics 480, International Trade	5
Economics 489, The Labor Movement	5
Economics 491, Applied Statistics	5
Economics 494, European Economic History	5

FINANCE

MR. SUTTON, Chairman

The finance group covers the essential subjects in money, credit, banking, corporate finance, the securities market and the theory of investments. During the past decade changes of fundamental and world-wide importance have occurred in our thinking and practice with reference to money standards, currencies, banking laws and policies, and central banking. These vital matters are handled in detail in the work of this department.

	Hours
Business Administration 371, Business Law, second course	5
Business Administration 430, Corporation Finance	5
Business Administration 431, Investments	5
Business Administration 449, Analysis of Financial Statements	5
Business Administration 488, Securities Market	5
Economics 334, Personal Finance	5
Economics 432, Fundamentals of Investment Banking	5
Economics 434, Public Finance	5
Economics 435, State and Local Public Finance	5
Economics 436, Business Cycles	5
Economics 450, Monetary Policy	5
Economics 491, Applied Statistics	5

GENERAL BUSINESS

MR. SEGREST, Chairman

The major in general business is designed for those students who wish to obtain a general rather than a specialized training in business administration. It is especially appropriate for those who will eventually become owners or managers of small business concerns. In this field emphasis is placed upon a comprehensive view of business as a whole rather than upon some one of the specialized functions in business administration. This gives the student a broader and more extensive approach to business problems than that which is afforded by intensive study in a specialized field.

The method of accomplishing this broader training is that of selecting certain basic courses from each of the specialized programs. This gives the student an appreciation of the contribution of the specialized groups to the going business enterprise and shows how these specialized functions must be brought together and organized into a working system in order to operate effectively. The courses listed as a part of this major concentration provide useful training for the prospective business man regardless of the type of business entered.

	Hours
Economics 334, Personal Finance	5
Economics 380, Economics and the Individual Firm	5
Economics 436, Business Cycles	5
Economics 444, Government Control of the Economic System	5
Economics 485, Personnel Administration	5
Economics 490, Labor Legislation	5
Business Administration 371, Business Law, second course	5
Business Administration 388, Property and Casualty Insurance	5
Business Administration 415, Income Tax Accounting	5
Business Administration 430, Corporation Finance	5
Business Administration 431, Investments	5
Business Administration 462, Principles of Retailing	5

INDUSTRIAL RELATIONS AND PERSONNEL ADMINISTRATION

Mr. SEGREST, Chairman

One of the biggest tasks confronting our economy today is the harmonious coordination of the efforts of many individual workers within industrial society. Achievement of more satisfactory working conditions, steadier employment, better adjustment of labor disputes, and resulting increases in productivity and real income for all, are vital both to the individual business unit and to society. Intelligent management of labor means both reduced costs for business and more efficient utilization of the human resources of our nation. It involves an understanding of the unions with which management deals, the nature and issues of collective bargaining, and the relationship between unorganized workers and management.

This program is not primarily directed toward the professional training of students interested in the fields of labor and personnel. The growth of the labor movement, the increase of public interest and control of industrial relations, and the strength of organized labor groups in our society make many of the problems of labor relations urgent matters of public policy. Specialization in this field is viewed as part of the equipment of the citizen as well as of the executive and only secondarily as training for specialized employment.

	Hours
Economics 442, Public Personnel Administration	5
Economics 444, Government Control of the Economic System	5
Economics 485, Personnel Administration	5
Economics 489, The Labor Movement	5
Economics 490, Labor Legislation	5
Economics 491, Applied Statistics	5
Business Administration 474, Occupational Information	5
Business Administration 482, Employment Psychology	5
Business Administration 483, Psychology of Work and Efficiency	5
Business Administration 484, Psychological Aspects of Wage Determination	5

INSURANCE AND REAL ESTATE

Mr. CHARLES, Chairman

The program of study in the insurance and real estate concentration group is designed to give the student a broad understanding of the place and functions of risk-bearing institutions in a private economy, the opportunities for professional advancement in the insurance and real estate fields, either in combination or separately, and to give the future business executive some basic principles to guide him in setting up an adequate insurance program. Insurance has recently assumed the status of a profession and the concentration is designed to enable one to achieve professional efficiency as well as to become a more intelligent purchaser of insurance and real estate.

	Hours
Business Administration 371, Business Law, second course	5
Business Administration 387, Life Insurance	5
Business Administration 388, Property and Casualty Insurance	5
Business Administration 389, Insurance Agency Management	5
Business Administration 390, Real Estate Principles	5
Business Administration 391, Real Estate Agency	5
Business Administration 431, Investments	5
Economics 434, Public Finance	5
Economics 436, Business Cycles	5
Economics 491, Applied Statistics	5
Mathematics 303, Mathematics of Life Insurance	3

MARKETING

MR. HICKS, Chairman

Concentrated study of marketing is two-fold in purpose; first, it trains students for positions in sales organizations, in market research, and in other fields related to distribution; and, second, it provides appraisal of the market system's effectiveness in meeting the broad demands of social welfare.

Emphasis has been placed in recent years upon the importance of market costs as compared with those of production. Large scale production, regional specialization in production, and the development of metropolitan areas far removed from sources of supply have necessitated a complex marketing machinery. An understanding of marketing problems for the successful operation of individual businesses is necessary so that methods may be improved and selling costs controlled.

	Hours
Economics 361, Marketing Problems	5
Economics 465, Marketing Research and Analysis	5
Economics 466, Economics of Consumption	5
Economics 475, Economics of Transportation	5
Economics 480, International Trade	5
Economics 491, Applied Statistics	5
Business Administration 462, Principles of Retailing	5
Business Administration 463, Advertising	5
Business Administration 464, Sales Administration	5
Business Administration 470, Wholesaling	5
Business Administration 478, Purchasing	5

PUBLIC ADMINISTRATION

MR. GATES, Chairman

With expanding government social services and regulatory bodies, the need for personnel trained in public administration becomes greater. To provide this basic training, the Political Science Department and the College of Business Administration jointly offer a major concentration in public administration for those who wish to prepare to enter government service (local, state, or federal). It is recommended that those students who choose this major select, as their free electives, additional advanced courses in political science.

	Hours
Economics 434, Public Finance	5
Economics 435, State and Local Public Finance	5
Economics 437, Comparative Economic Systems	5
Economics 441, Principles of Public Administration	5
Economics 442, Public Personnel Administration	5
Economics 443, Public Financial Administration	5
Economics 444, Government Control of the Economic System	5
Economics 477, Public Utilities	5
Economics 491, Applied Statistics	5
Economics 492, American Administrative Law	5

SECRETARIAL STUDIES

MR. ROMAN, Chairman

The purpose of secretarial studies is to equip students with secretarial skills and a broad background to qualify them for positions in government, business, and the professions.

Students majoring in this field should take Business Administration 300 a-b-c, Shorthand; Business Administration 303-304-305, Typewriting; and

Business Administration 310, Office Practice, in residence during their senior year. Majors who receive transfer credit in these subjects must pass comprehensive tests during the last quarter before graduation as a requirement for the B.B.A. degree.

Secretarial studies majors who desire to teach commercial subjects may take Education 304, 335.5, and 336.5 in addition to the courses listed above to complete their major requirements. It is recommended that those students wishing to teach select their electives in the field of Education.

Business Administration 300 a-b-c, Shorthand	9
Business Administration 303, 304, 305, Typewriting	6
Business Administration 309, Teaching of Commercial Subjects	5
Business Administration 310, Office Practice	5
Business Administration 315, Punch-card Equipment	5
Minimum of 2 courses from one other major group in business or economics, depending upon the student's individual need	10

ECONOMIC STATISTICS

MR. SEBBA, Chairman

The concentration group in statistics is offered jointly by the Mathematics Department and the College of Business Administration for the student who desires opportunity to combine the basic mathematics courses with business or economics courses in preparation for work in statistics in some specialized field. Since statistics requires extensive preparation in mathematics, the student who selects this major must elect, in addition to the required freshman mathematics, Mathematics 441 and 442 if the schedule permits. The three electives provided in the major must be confined to one of the other major concentrations (except General Business or Secretarial Studies). This will permit a student to prepare himself for statistical work in accounting, economics, finance and banking, insurance, marketing and advertising, industrial relations, or public administration.

	Hours
Economics 436, Business Cycles	5
Economics 491, Applied Statistics	5
Business Administration 315, Punch-card Equipment	5
Mathematics 451, Mathematical Statistics	4
Mathematics 452, Mathematical Statistics	3
Minimum of 3 courses from one other major group in business or economics, depending upon the student's individual need.....	15

COMBINATION COURSE IN BUSINESS ADMINISTRATION AND LAW

MR. BURKE, Chairman

Business training in general economics, accounting, corporate organization, finance, taxation, labor and other specialized fields has become important to the lawyer. Many law firms find their practice largely confined to acting as consultants to business executives.

It would be an ideal arrangement if prospective lawyers could pass first through a school of business before taking up the study of law. Since such a course normally requires seven years, involving a greater expenditure of time and money than students can usually afford, the College of Business Administration and the School of Law have a combined curriculum making possible completion of both courses in eighteen quarters.

Students taking this combination will register for the special curriculum in Business Administration and Law as described below. This enables the student to get a total of 38 hours in subjects of an economic and business character in his first two years. In the junior year the student will complete the core curriculum (except Business Administration 370, Business Law),

and will also take a major in one of the concentration groups, making a total of 83 hours in business and economic subjects. It is thus possible for him to get specialized training in a selected business administration field before entering the School of Law. During the senior year the student will substitute the first year of work in the School of Law for his business administration requirements.

The degree of Bachelor of Business Administration may then be conferred in the combined program at the end of the fourth year's work on those students who successfully complete all of the work of the first year in the School of Law (with total University credit of 186 hours, exclusive of basic military and physical education) and who are certified by the Dean of that College as being eligible for re-admission to the second year of the School of Law.

Three quarters' residence work, including 45 hours in courses numbered 200 or above, devoted exclusively to courses in the College of Business Administration will be required after admission to senior division standing.

CURRICULUM IN BUSINESS ADMINISTRATION AND LAW

(An Eighteen Quarter Combined Curriculum)

FRESHMAN		SOPHOMORE	
	Hours		Hours
English 2x-2y	10	English 22x-22y	10
Mathematics 101x	5	Political Science 1	5
History 110x-110y	10	Business Administration 6x-6y	10
Science	10	Philosophy 104 or Speech 50	5
(Double Lab. See Item 4, Page 45)		Economics 312	5
Economics 5x-5y	10	Economics 326	5
Business Administration 8	3	Economics 386	5
Business Administration 1 a-b-c	0	Military Science 2 or Air Science 6 5	
Military Science 1 or Air Science 5 5		Physical Education 2 (for men)	
Physical Education 1 (for men)	0	or	
or		Physical Education 2 (for women) 5	
Physical Education 1 (for women) 5		Total	50
Total	53		

JUNIOR

	Hours
Economics 333	5
Economics 360	5
Business Administration 351	5
Philosophy 358	5
Major Concentration Group	30
	50

SENIOR

Satisfactory completion of the first year of work in the School of Law and a total of 186 academic quarter hours.

MAJOR IN ECONOMICS IN THE BACHELOR OF ARTS DEGREE

Applicants for the Bachelor of Arts degree upon entering the Junior Class are required to select a major division, from which at least eight courses must be taken. One of the major divisions that may thus be elected in the division of Social Sciences, and Economics is one of the departments in this division. For A.B. students who desire to major in Economics the concentration group in Economics is provided. From this group, with the approval

of the major professor and the Dean of the College of Arts and Sciences, the major program will be arranged.

SECRETARIAL STUDIES FOR BACHELOR OF EDUCATION DEGREE

For juniors and seniors in the College of Education who plan to teach commercial subjects, an arrangement has been made with that College so that such students may take courses in Secretarial Studies in the College of Business Administration for credit toward their Bachelor of Education degree.

Programs for these students will be drawn up after a conference with the Commercial Education adviser in the College of Education.

COURSES OF INSTRUCTION

(Commerce-Journalism Building, North Campus)

Unpredictable circumstances may necessitate the temporary withdrawal of some of the announced courses. The University reserves the right to withdraw any course for which the registration is not sufficiently large, and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Courses are listed under the general headings of Business Administration and Economics. Unless otherwise indicated all courses meet five hours a week and carry five hours credit.

BUSINESS ADMINISTRATION

1 a-b-c. ORIENTATION TO BUSINESS. No academic credit. (One period a week for three quarters.) *Mr. Roman.*

To acquaint the beginning student with the instructional and other programs of the University; to provide a full program of testing and counselling for freshmen. Required of all freshmen in the College of Business Administration except freshmen girls attending co-ordinate campus classes. Not required of transfer students with junior standing.

2. MATHEMATICS OF FINANCE. (Not offered 1951-52).

A basic course in the mathematics of finance including simple equations; ratio, proportion and percentage; interest and discount computations; quadratic equations; annuities, amortization and sinking funds; mathematics of depreciation.

6X. PRINCIPLES OF ACCOUNTING. First course. *The Staff.*

An introduction to the fundamental principles and practices of accounting; the construction and interpretation of balance sheet and profit and loss statements; the theory of debits and credits as applied to business transactions.

6Y. PRINCIPLES OF ACCOUNTING. Second course. Prerequisite: Business Administration 6X. *The Staff.*

An application of accounting principles to certain specialized problems, such as proprietorship under the various forms of business organization; manufacturing accounts and manufacturing cost controls; accounting for fire losses, bonds, and sinking funds.

7. PERSONAL TYPING. No academic credit. (Five periods a week.) *Mrs. Howard and Mr. Roman.*

An introductory course in typewriting designed to teach in a minimum of time typewriting for personal use.

8. BUSINESS CORRESPONDENCE. 3 hours. *The Staff.*

Qualities and principles of effective business letter writing; practice in writing various types of letters and reports.

300 a-b-c. SHORTHAND. 9 hours. (Five periods a week for three quarters). *Mrs. Howard and Mr. Roman.*

Study of the theory of Gregg shorthand, development of skill in reading and writing from printed shorthand, dictation of a general commercial nature, and transcribing into correct, acceptable form.

Students who have had Gregg shorthand in high school may register for Business Administration 300c by passing a test on the material covered in Business Administration 300 a-b. In such cases credit is given only for work done at the University.

303-304-305. **TYPEWRITING.** 6 hours. (Five periods a week for three quarters). *Mrs. Howard* and *Mr. Roman*.

Introductory and advanced typewriting; business letters and forms; tabulation and manuscript writing; stencil work, and other typewriting problems of the business office.

Students who have had typewriting in high school may register for Business Administration 305 by passing a test on the material covered in Business Administration 303 and 304. In such cases credit is given only for work done at the University.

309. **PROBLEMS AND METHODS IN TEACHING COMMERCIAL SUBJECTS.** *Mr. Roman*.

An introduction to the meaning and purpose of commercial education; modern teaching methods and practices. For prospective commercial teachers.

310. **OFFICE PRACTICE.** Prerequisites: Business Administration 300 a-b-c, 303, 304, and 305. (300c and 305 may be taken concurrently.) *Mr. Roman*.

Advanced secretarial course; secretarial traits and duties; filing; operation of dictating, duplicating, calculating, and other office appliances.

311. **INTRODUCTORY COST ACCOUNTING.** Prerequisite: Business Administration 6y. *The Staff*.

Methods of ascertaining and distributing costs in manufacturing concerns emphasizing the securing of units costs under the order and process methods.

315. **PUNCH-CARD EQUIPMENT.** Prerequisite: Business Administration 6y. *Mr. Burke*.

Designed to familiarize students with the operation of punch-card equipment; to acquaint them with the varied types of reports for management that are possible; and to suggest statistical analysis. Especially recommended for accounting, secretarial, and statistics majors.

320. **COMMERCIAL AVIATION.** *Mr. Nachtrab*.

History and development of commercial aviation, aircraft types, airways and their aids, government regulation.

321. **AERIAL NAVIGATION.** *Mr. Nachtrab*.

Aerial maps and charts, course plotting, navigation methods, including pilotage, dead reckoning and radio, navigation instruments.

322. **CIVIL AIR REGULATIONS AND METEOROLOGY.** *Mr. Nachtrab*.

Approximately one half quarter devoted to each subject; civil air regulations, covering certification of pilots and airplanes, pilot regulations, flight rules, and air traffic rules; meteorology, covering theory of weather, weather maps, teletype sequence reports, forecasting, and flight planning.

323. **AIRCRAFT POWER PLANTS.** *Mr. Nachtrab*.

Types, construction, theory and operation of aircraft engines including study of electrical systems and attendant accessories such as magnetos, generators and batteries.

325. **AIRCRAFT AND THEORY OF FLIGHT.** *Mr. Nachtrab*.

Principles of aerodynamics and physical laws related to aircraft in flight; airfoils and forces acting upon them; wing types and characteristics; propeller theory and reaction propulsion; aircraft types and construction.

327. **AIRPORT MANAGEMENT AND OPERATION.** *Mr. Nachtrab*.

Problems of airport management, development, organization of instructional personnel, charter work maintenance, sales, concessional and public services; survey of civil air regulations governing and regulating airport operations; traffic control; city and county regulations, public relations and advertising.

328. **AIRLINE ADMINISTRATION AND PRACTICE.** *Mr. Nachtrab*.

A study of the general principles governing airline administration.

340. **BUSINESS PRACTICE.** Maximum credit 15 hours. Prerequisite: Three years of college work leading to a B.B.A. degree.

A few superior students are permitted in their senior year to enter business establishments for the purpose of obtaining practical experience. The period of absence is limited to one quarter. For details of the plan see page ???

342. **MANAGEMENT OF COMMERCIAL AND TRADE ORGANIZATIONS.** 3 hours. Prerequisite: Senior standing. *Mr. Gates*.

A study of the functions, program, structural, policies, financing, public relations, administration, and legal aspects of commercial and trade organizations.

351. **INDUSTRIAL MANAGEMENT.** *Mr. Youngblood* and *the Staff*.

An introductory study of the organization, principal functions, departmental activities, and administrative policies of manufacturing industries.

370. BUSINESS LAW. First course. (Not open to students taking the combined LL.B.-B.B.A. degree). *Mr. Charles and the Staff.*

Contracts, sales contracts, uniform sales law, negotiable instruments, bailments, common and public carriers, and agency.

371. BUSINESS LAW. Second course. Prerequisite: Business Administration 370. (Not open to students taking the combined LL.B.-B.B.A. degrees). *Mr. Charles, Mr. Dean, and Mr. Whetten.*

Employer and employee, partnerships, formation, operation, and dissolution, corporations, insurance, life, property, and automobile, property: real estate mortgages, landlord and tenant, wills, and bankruptcy.

387. LIFE INSURANCE. *Mr. Charles.*

The uses of life insurance, mortality tables, types of policies, reserves and policy values, organization of life insurance companies, group and industrial insurance, legal interpretation of policies, state supervision of life insurance.

388. PROPERTY AND CASUALTY INSURANCE. *Mr. Charles.*

The functions of fire and casualty insurance, organization of carriers, standard policies, essentials of insurance law, types of underwriters, settlement of losses, clauses and forms, marine and inland marine insurance, automobile, title, credit, and other miscellaneous forms of property and casualty insurance.

389. INSURANCE AGENCY MANAGEMENT. Prerequisite: Business Administration 387 or 388. *Mr. Charles.*

Status of the Insurance agency, its legal basis, necessary equipment, methods of agency management, aids from the head office, hiring and training sub-agents, sales policies, promotion, advertising and publicity, sources of contacts, duties to the principal in claims settlements, commissions, and accounting records.

390. REAL ESTATE PRINCIPLES. *Mr. Rasmussen.*

A consideration of the general principles of property utilization, the law dealing with ownership, transfer of title, and liens; the appraisal process, determinants of values, the real estate cycle, management and salesmanship, and regulatory legislation.

391. REAL ESTATE AGENCY. Prerequisite: Business Administration 390. *Mr. Rasmussen.*

Private and government financing of real estate; the management and sales problems of a real estate broker.

395. PERSONAL ADJUSTMENT TO BUSINESS. 1 hour. *Mr. Gates.*

Methods of selecting and obtaining a suitable business position; proper techniques of making application, preparing for interview, and initial conduct on the job. Outside business men will give occasional addresses on topics of vocational information.

Required of all candidates for the B.B.A. degree.

413. ADVANCED COST ACCOUNTING. Prerequisite: Business Administration 311. *The Staff.*

A detailed study of cost accounting theories and their application to standard and estimated costs sets.

415. INCOME TAX ACCOUNTING. Prerequisite: Business Administration 6y. *The Staff.*

An interpretation of federal and state income tax laws with practice material requiring an application of other provisions to the returns of individuals, partnerships and fiduciaries.

417. C.P.A. REVIEW. Prerequisite: Business Administration 457. *Mr. Burke and Mr. Heckman.*

General review of all accounting courses preparatory to state C.P.A. examinations. Open only to students planning to take the C.P.A. examination.

418. MUNICIPAL ACCOUNTING. Prerequisite: Business Administration 6y. *The Staff.*

The study of accounting problems and procedures pertaining to state and local governments and their institutions; governmental classification of receipts and expenditures; preparation of reports; budgeting and operation of fund accounts.

419. TAX ACCOUNTING. Prerequisite: Business Administration 415. *Mr. Heckman.*

A continuation of Business Administration 415 with emphasis upon corporation income tax laws, social security taxes, gift taxes and estate taxes.

430. CORPORATION FINANCE. Prerequisite: Economics 326. *Mr. Moorhouse and Mr. Sutton.*

The promotion and organization of corporations; forms of securities issued; problems of financial administration; analysis of the causes of failures; the rehabilitation of bankrupt corporations.

431. INVESTMENTS. Prerequisite: Economics 326. *Mr. Moorhouse and Mr. Sutton.*

The elements of an "ideal" investment; the examination and testing of specific investment securities issued by railroad, public utility, industrial, mining, shipping, and other corporations.

449. ANALYSIS OF FINANCIAL STATEMENTS. Prerequisite: Business Administration 6y. *The Staff.*

Techniques of analysis of balance sheets and statements of profit and loss, and the interpretation of findings. Statements of various industries and utilities are studied, and interpretations based upon a knowledge of the particular industry are made.

453. ACCOUNTING THEORY. First course. Prerequisite: Business Administration 6y. *The Staff.*

The development of accounting theories; importance of theories and their importance in determining accounting principles, practices, and convention. Basic accounting theories are applied to the problems incident to partnership and corporation formation, operation, and liquidation. Theories determining valuation of current assets and their position on financial statements are stressed.

454. ACCOUNTING THEORY. Second course. Prerequisite: Business Administration 453. *The Staff.*

A continuation of Business Administration 453 with emphasis on the valuation of fixed assets and liability accounts with proprietorship reserves. The application of the theories of valuation to normal financial statements and the interpretation of these statements.

456. ACCOUNTING PROBLEMS. Prerequisite: Business Administration 311. *Mr. Burke and Mr. Heckman.*

Application of accounting theory to specialized problems of industry, such as consignments, insurance, receiverships, and estates. Application of funds.

457. CONSOLIDATED STATEMENTS. Prerequisite: Business Administration 454. *Mr. Burke and Mr. Heckman.*

Development of specialized accounting problems incident to corporate organizations in the preparation of consolidated statements, consolidations, and mergers.

462. PRINCIPLES OF RETAILING. Prerequisite: Economics 360. *Mr. Hicks, Mr. Troelston, and Mr. Walker.*

The current status of retailing; types of store organization, arrangement, and merchandise classification; buying, selling and controlling stocks, returned goods and adjustments; problems of general policy and control.

463. ADVERTISING. Prerequisite: Economics 360. *Mr. Hicks, Mr. Troelston, and Mr. Walker.*

A comprehensive survey course covering the history and economics of advertising; research techniques, copy and campaigns.

464. SALES ADMINISTRATION. Prerequisite: Economics 360. *Mr. Hicks, Mr. Troelston, and Mr. Walker.*

Problems and cases of manufacturers and dealers in marketing consumer and industrial goods; sales promotion; sales analysis; channels of distribution; the selection and control of salesmen.

470. WHOLESALING. Prerequisites: Economics 360 and 361. *Mr. Hicks.*

The field of wholesaling; types and classes of wholesale institutions; organization and management of wholesale establishments, with emphasis on selected product groups and trade areas.

472. AUDITING PRINCIPLES. Prerequisite: Business Administration 454. *The Staff.*

The study of the principles governing audits and audit procedure. The qualifications and responsibilities of the public accountant.

473. AUDITING PROBLEMS. Prerequisite: Business Administration 472. *The Staff.*

The application of auditing theories and principles to audit problems with emphasis upon preparation of audit working papers and reports.

474. OCCUPATIONAL INFORMATION. Prerequisites: Psychology 1 and Economics 5x and 5y. *Mr. Gray.*

A wide variety of occupations will be overviewed and certain others will be studied in detail. Tools of the occupational consultant—Dictionary of Occupational Titles, occupational families, job descriptions, will be studied. Field trips to observe jobs will be a part of the course.

478. PURCHASING. Prerequisites: Economics 360 and 361. *Mr. Hicks and Mr. Troelston.*

A study of the principles and practices used by manufacturing and other types of business concerns in the purchasing of equipment, raw materials, parts and supplies; sources of supply; necessary records; warehousing and physical handling of inventory; traffic management.

479. FUNCTIONS OF THE CONTROLLER. Prerequisite: Business Administration 311. *The Staff.*

The principles and functions of the controller and his office, forecasting, budget preparation, review, and revisions; variances and allocation of responsibility; application of principles of management psychology to remedying weaknesses.

481. ACCOUNTING SYSTEMS. Prerequisite: Business Administration 454. *The Staff.*

A study of accounting systems used in various businesses; principles of internal check; organization and installation of an accounting system.

482. EMPLOYMENT PSYCHOLOGY. Prerequisites: Psychology 1 and Economics 5x, 5y, and 312. *Mr. Gray.*

A survey of scientific methods of selecting men for industrial and business employment. Interviewing, testing, and appraising human aptitudes are studied and practiced in laboratory situations.

483. PSYCHOLOGY OF WORK AND EFFICIENCY. Prerequisites: Psychology 1 and Economics 5x, 5y, and 312. *Mr. Gray.*

Various factors which affect work and efficiency—such as lighting, ventilation, methods, rest, age, motivation—are studied. Experiments are performed to demonstrate and evaluate these factors.

484. PSYCHOLOGICAL ASPECTS OF WAGE DETERMINATION. Prerequisites: Psychology 1 and Economics 312. *Mr. Gray.*

Methods of job analysis, job evaluation, and merit ratings are studied and demonstrated. Actual practice in using these procedures is a part of the course.

488. THE SECURITIES MARKET. Prerequisite: Economics 326. *Mr. Moorhouse and Mr. Sutton.*

A study of the organization and functions of the New York Stock Exchange; types of transactions, types of traders, brokerage houses, the nature of speculation; relation of business cycles to stock prices; forecasting.

ECONOMICS

5x. PRINCIPLES OF ECONOMICS. *The Staff.*

A description and critical analysis of the organization of modern society from an economic point of view, with a brief introduction to the theory of value and distribution.

This course is required of all sophomores in the College of Business Administration and A.B. majors in Economics. It is elective as a social science for all other students and may be taken without 5y.

5y. PROBLEMS OF ECONOMICS. Prerequisite: Economics 5x. *The Staff.*

Economic problems based upon the principles studied in 5x. Continuation of Economics 5x.

This course is required of all sophomores in the College of Business Administration and A.B. majors in Economics.

These two courses (5x and 5y) are prerequisite to all advanced courses in economics and business administration, except by special permission of the instructor.

312. ELEMENTARY ECONOMIC STATISTICS. *Mr. Sebba and the Staff.*

An introduction to the presentation and analysis of quantitative economic data. Statistical sources, table reading, chart making; elementary statistical procedures and their economic interpretation; introduction to index numbers and time series analysis.

326. MONEY AND BANKING. *Mr. Sutton and the Staff.*

A study of the role of money in the economic organization; monetary theory; methods of stabilizing the price level; the integration of financial instructions; theories of bank deposits and elasticity of bank currency; discount policy and the interest rate of central banks; methods of regulating credit and business activities.

333. AMERICAN ECONOMIC HISTORY. *Mr. Lorenz and the Staff.*

A survey of American economic development from the colonial period to the present; economic factors involved in American industrial growth and the resulting economic problems.

334. PERSONAL FINANCE. *Mr. Sutton.*

A course in finance from the viewpoint of the individual. Deals with the principles and practices involved in buying on credit, borrowing money, saving money, bank relationships, buying government bonds, insurance, annuities, real estate, corporate bonds and stocks, investment company securities, and problems of taxation and wills.

352. ECONOMICS OF AMERICAN INDUSTRY. (Not offered 1951-52).

The chief economic characteristics of the leading manufacturing industries.

358. WORLD RESOURCES AND INDUSTRIES. *Mr. Prunty.*

The relation of geographic factors to economic conditions in determining the nature and location of the several productive occupations; the distribution of the output of the occupations. Special emphasis is placed upon the role of economic geography in conditioning international affairs.

360. PRINCIPLES OF MARKETING. *Mr. Hicks and the Staff.*

Principles and methods involved in the movement of goods and services from producers to consumers; marketing functions; marketing manufactured goods, raw materials and agricultural products; proposals for improving the marketing structure.

361. MARKETING PROBLEMS. Prerequisite: Economics 360. *Mr. Hicks, Mr. Troelston, and Mr. Walker.*

A course in marketing and merchandising problems. Emphasis is placed upon the influence of buyers and consumers on merchandise policy; channels of distribution for consumer and industrial goods; brand policy; marketing organization and control methods; price policies and legislative regulation and diagnosis of marketing policies.

380. ECONOMICS AND THE INDIVIDUAL FIRM. Prerequisite: The Core Curriculum. *Mr. Gates.*

The application of economic analysis to the determination of company policy including the functions of an economic system; national income; economic fluctuations; business forecasting; risks and insurance; analysis and measurement of demand; behaviour of costs and price determination; competitive strategy; and capital budgeting.

386. LABOR ECONOMICS. *Mr. Segrest and the Staff.*

A survey of wages, working conditions, unemployment, hours, workers' welfare plans, labor legislation, labor organization and current developments in labor.

406. ADVANCED ECONOMIC THEORY. *Mr. Smith.*

Designed especially for majors in economics. Application of theoretical tools to value, distribution, money, business fluctuations, and the relationships between government and business.

432. FUNDAMENTALS OF INVESTMENT BANKING. Prerequisites: Economics 326 and two senior courses in Economics. *Mr. Sutton.*

A study of the economics of investment banking; private investment banking machinery; and institutional investment banking.

434. PUBLIC FINANCE. *Mr. Brooks.*

A general consideration of American public expenditures, revenues, and fiscal administration.

435. STATE AND LOCAL PUBLIC FINANCE. Prerequisite: Economics 434. *Mr. Brooks.*

A detailed treatment of the revenues, expenditures, and fiscal administration of Georgia and its political subdivisions; fiscal comparisons of Georgia with other states; and an analysis of intergovernmental tax relationships.

436. BUSINESS CYCLES. *Mr. Sebba.*

An analysis of the economic and social significance of business fluctuations; causes of business cycles; measures for controlling cycles; the possibilities of business forecasting.

437. COMPARATIVE ECONOMIC SYSTEMS. *Mr. Sebba and Mr. Smith.*

A critical analysis and appraisal of the theories underlying economic systems, including the directed economies and economic planning. A comparison of proposed and existing schemes, with respect to the maintenance of full employment, distribution of income, and encouragement of progress.

441. PRINCIPLES OF PUBLIC ADMINISTRATION. *Mr. Collins.*

A study of administrative organization, relationships, and controls in the United States.

442. PUBLIC PERSONNEL ADMINISTRATION. *Mr. Collins.*

A study of civil service systems, their organization, procedure, and relationship.

443. PUBLIC FINANCIAL ADMINISTRATION. *Mr. Collins.*

A study of the budgeting process, preparation and enactment of the budget, financial accountability and the audit.

444. GOVERNMENT AND BUSINESS *Mr. Smith.*

A general survey of the economic aspects of business regulation by the government, with specific reference to regulatory developments and methods in the United States; other activities affecting business in general, as extension of loans and subsidies, maintenance of fact-finding agencies and government-owned corporations.

450. MONETARY POLICY. Prerequisite: Economics 326. *Mr. Moorhouse and Mr. Sutton.*

An advanced treatment of problems introduced in Economics 326; emphasis is placed on recent changes in our monetary and banking systems.

455. CONTEMPORARY ECONOMIC PROBLEMS. *Mr. Smith and the Staff.*

The application of economic theory to certain problems of contemporary economic life, such as the problems of monopoly and its regulations, federal regulation and control in general, business cycles, protective tariffs, public finance, inflationary influences, and industrial conflict.

459. ECONOMIC GEOGRAPHY OF THE WORLD. (Not offered 1951-52).

Economic and regional geography of Europe, Asia, Africa, and Australia, with a brief survey of the social, political and historical geography of major regions.

465. MARKETING RESEARCH AND ANALYSIS. Prerequisite: Economics 361. *Mr. Hicks.*

The scientific method in the construction of general marketing research studies and in the solution of specific distribution problems; qualitative market analyses; market trends; dealer analysis, data collection, tabulation and interpretation.

466. ECONOMICS OF CONSUMPTION. *Mr. Troelston.*

A study of the economics of the consumer market; the process of consumption, with special emphasis on factors that determine it; the position and responsibilities of the consumer; desirable controls of consumption.

475. ECONOMICS OF TRANSPORTATION. *Mr. Smith.*

A study of the economic principles of transportation with special emphasis on the history and regulation of railroads.

Majors in aeronautical administration will be required to complete additional assignments in air transportation.

477. PUBLIC UTILITIES. *Mr. Smith.*

A description of development, characteristics, rights, and duties of public utilities with special emphasis on the problem of regulation and rates, service, securities, holding companies, etc., in the electric utilities. Special consideration is given to activities of the Federal government in the power field.

480. INTERNATIONAL TRADE. *Mr. Sebba and Mr. Smith.*

An examination of the economic importance and problems of international trade. An analysis of the theory of international trade is presented as a tool to be used in the consideration of the international problems of exchange rates and monetary standards, tariffs and other trade barriers, debts, and the position of international trade in the post-war world.

485. PERSONNEL ADMINISTRATION. Prerequisites: Psychology 1 and Economics 386. *Mr. Roman and Mr. Segrest.*

The principles and practices in the field of the administration of human relations in industry. Emphasis is given to scientific techniques and devices in the development of a well-rounded personnel program.

489. THE LABOR MOVEMENT. Prerequisite: Economics 386. *Mr. Segrest.*

An historical background of modern industrial relations; a study of the principal economic, social and political forces contributing to the current problems in the field of labor economics.

490. LABOR LEGISLATION. Prerequisite: Economics 386. *Mr. Segrest.*

A study of state and federal legislation in the field of industrial relations.

491. APPLIED ECONOMIC STATISTICS. Prerequisite: Mathematics 356 or Economics 312 and consent of major professor. *Mr. Sebba.*

Various statistical methods and techniques applied to economic fields such as marketing, advertising, labor management, production, banking, investments.

492. AMERICAN ADMINISTRATIVE LAW. *Mr. Saye.*

This course stresses the legal principles and practical doctrines involved in work of administrative tribunals (the Interstate Commerce Commission, Federal Trade Commission, Securities and Exchange Commission, etc.) vested with quasi-legislative or quasi-judicial powers, or both. It includes also a study of the Social Security Program at both the State and National level.

494. EUROPEAN ECONOMIC HISTORY. *Mr. Lorenz.*

The development of the economic aspects of civilization in medieval and modern times; the evolution of economic institutions; the historical background of present economic problems.

GRADUATE COURSES

(Students interested in graduate work in the College of Business Administration should write to the Graduate School for a complete list of graduate offerings. The courses listed below are available for graduate students only. Courses numbered in the 400 series and listed in this bulletin are offered jointly to graduate and undergraduate students).

BUSINESS ADMINISTRATION 830. RESEARCH IN CORPORATION FINANCE. *Mr. Sutton.*

Individual research in corporation finance. Permission of the instructor required.

BUSINESS ADMINISTRATION 854. ACCOUNTING THEORY. *Mr. Heckman.*

The history and development of accounting theory with special emphasis on the new principles being advocated at the present time: the influence of legislation on accounting theory.

ECONOMICS 807. THE HISTORY OF ECONOMIC THOUGHT. *Mr. Brooks.*

A review of the history of economic theory. The evolution of the important principles of economics, with emphasis laid on the history of the theories of value and distribution. Permission of the instructor required.

ECONOMICS 844. SEMINAR IN GOVERNMENT AND BUSINESS. *Mr. Smith.*

A study of current issues in the field of governments' relation to business with particular emphasis on problems associated with monopoly and competition.

ECONOMICS 850. RESEARCH IN MONEY AND BANKING. *Mr. Sutton.*

Individual research in money and banking. Permission of the instructor required.

ECONOMICS 860. SEMINAR IN MARKETING AND SALES ADMINISTRATION. *Mr. Hicks.*

Sales and marketing problems with emphasis upon current developments in wholesale and retail agencies. Individual problems are selected in line with the training and interest of each student. Permission of the instructor required.

ECONOMICS 886. PROBLEMS IN INDUSTRIAL RELATIONS. *Mr. Segrest.*

A study of current problems in industrial relations with particular emphasis on the current status of unionism in the United States in terms of the effects of union organization, policies and methods upon employer-employee relations.

ECONOMICS 890. INDEX NUMBERS. Prerequisites: Economics 312, Economics 491, and one senior economics course. *Mr. Sebba.*

Index number construction and interpretation; a survey of the most important index numbers currently used in economic statistics.

ECONOMICS 891. RESEARCH IN APPLIED ECONOMIC STATISTICS. *Mr. Sebba.*

Individual research in the application of statistical methods to economic problems. Permission of the instructor required.

ECONOMICS 892. TIME SERIES ANALYSIS. Prerequisites: Economics 312, 491, 436. *Mr. Sebba.*

A study of statistical time series analysis and its application to economic analysis.

ECONOMICS 893. ECONOMICS SEMINAR. *The Staff.*

A research problem in the field of major concentration under personal supervision of the major professor. Permission of the instructor required.

COURSES IN OTHER SCHOOLS ACCEPTED AS PART OF MAJOR CONCENTRATION GROUPS IN BUSINESS ADMINISTRATION OR ECONOMICS.

MATHEMATICS 303. MATHEMATICS OF LIFE INSURANCE. 3 hours. Prerequisite: Mathematics 102 (Mathematics of Finance).

Mathematical theory of life insurance.

MATHEMATICS 451. MATHEMATICAL STATISTICS. 4 hours. Prerequisites: Mathematics 355 (Calculus) and 356 (Statistics).

Mathematical theory of statistical methods; probability and sampling distributions.

MATHEMATICS 452. MATHEMATICAL STATISTICS. 3 hours. Prerequisite: Mathematics 451.

Continuation of Mathematics 451.

THE HENRY W. GRADY SCHOOL OF JOURNALISM

THE FACULTY

JOHN ELDRIDGE DREWBY, A.B., B.J., A.M., *Dean.*

MARIE ANDERSON CALDWELL, B.S., *Secretary.*

LEIGHTON MILTON BALLEW, B.S., M.A., *Associate Professor of Drama and Head of the Department of Drama.*

MARION TYUS BUTLER, A.B.J., M.A., *Associate Professor of Journalism.*

LAMAR DODD, L.H.D., *Regents' Professor of Art and Head of the Department of Art.*

JOHN ELDRIDGE DREWBY, A.B., B.J., A.M., *Professor of Journalism and Dean of the School of Journalism.*

LOUIS TURNER GRIFFITH, A.B.J., M.A., *Assistant Professor of Journalism.*

ALVIN MELL LUNCEFORD, JR., A.B.J., M.Sp., *Assistant Professor of Journalism.*

WILLIAM WORTH McDUGALD, A.B., *Assistant Professor of Journalism.*

JOHN SAMUEL PETERS, B.S., *Assistant Professor of Journalism and Head of the Printing Department.*

JOHN ERWIN TALMADGE, B.A., M.A., *Associate Professor of Journalism.*

CAROLYN VANCE, A.B., M.A., *Assistant Professor of Speech and Radio.*

Members of the Faculty of the College of Arts and Sciences teach the courses other than journalism required in the School of Journalism.

OMER CLYDE ADERHOLD, B.S.A., M.S., Ph.D., *President of the University.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Dean of Faculties.*

JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Dean of Student Affairs.*

WALTER NEWMAN DANNER, JR., B.S.A.E., M.S.A., *Registrar and Director of Admissions.*

JOHN DIXON BOLTON, C.P.A., *Comptroller and Treasurer.*

SPECIAL LECTURERS*

- MERLE ARMITAGE, Art Director, *Look Magazine*, New York City.
- EDGAR S. BAYOL, Press Counsel, Coca-Cola Company, New York City.
- HELEN BULLARD, Charles A. Rawson and Associates, Atlanta.
- ROBERT P. TRISTRAM COFFIN, Author, Poet, and Pulitzer prize-winner.
- JOHN M. COOPER, Director of Radio, International News Service, New York City.
- ROGER P. FOX, Associate Editor, *Forbes Magazine*, New York.
- MALCOLM JOHNSON, International News Service, New York City.
- MISS LILA M. JONES, Head, Home Economics Department, H. J. Heinz Company, Pittsburgh.
- LAWRENCE LAYBOURNE, Chief of *Life Magazine* News Bureau.
- BENJAMIN M. MCKELWAY, Editor, *Washington Star*, and President, American Society of Newspaper Editors.
- SIG MICKELSON, Director of Public Affairs, Columbia Broadcasting System, New York City.
- MAURICE MITCHELL, Director of Broadcast Advertising Bureau, National Association of Broadcasters.
- ROBERT NIXON, White House Correspondent, International News Service, and President, White House Correspondents Association, Washington, D. C.
- ANGUS PERKERSON, Editor, Sunday Magazine, *Atlanta Journal-Constitution*.
- R. E. ROBERTS, Manager of Employee Relations, Ford Motor Company, Dearborn, Michigan.
- KENNETH ROGERS, Color Photographer, Sunday Magazine *Atlanta Journal-Constitution*.
- ROBERT C. RUARK, Syndicated Columnist and Author of "I Didn't Know It Was Loaded."
- ROBERT SHELLENBERG, Director of Educational Services, *The Saturday Evening Post*.
- SOL TAISHOFF, Editor and Publisher, *Broadcasting and Telecasting*, Washington, D. C.
- JACK TARVER, Associate Editor, *Atlanta Constitution*.
- FLOYD TAYLOR, Director, American Press Institute, Columbia University, New York City.
- EDWARD TOMLINSON, Correspondent, and Author of "Battle for the Hemisphere," etc.

*This is a partial list of those heard during the 1949-50 school year. A similar group is heard each session.

HISTORY AND AIMS OF SCHOOL OF JOURNALISM

Instruction in journalism at the University of Georgia dates back to 1915 when a School of Journalism was authorized by the Board of Trustees. In 1921 the School was named for the illustrious editor, orator, and statesman, Henry W. Grady, an alumnus of the University.

The Grady School is on the approved list of the American Council of Education for Journalism, and for some years has been a member of the American Association of Schools and Departments of Journalism, the national accrediting organization whose membership is limited to those schools which have met certain requirements as to curriculum, faculty, and equipment.

To the average person the term *journalism* means newspaper work, perhaps reporting. Important as is the newspaper, and essential to the welfare of a democracy as is accurate and truthful reporting, journalism embraces a great deal more than the daily and weekly press.

Journalism, in the broad sense, includes metropolitan dailies, small town dailies and weeklies, press associations and syndicates, certain phases of radio, specialized magazines and trade journals, general magazines, various aspects of book publishing, advertising and publicity, much of the production and promotion work in motion pictures and the theatre, and editorial, instructional, and research work for schools, colleges, and various social agencies.

Many executives and leaders in various walks of private and public life have had newspaper and other journalistic experience and have testified to the general educational value of such work. Journalism, just as the law, is both a profession within itself and an excellent preparation for dealing with the multifarious problems of life.

Just as the term *journalism* is usually interpreted to mean the newspaper, so the expression *education in journalism* to many persons means only vocational preparation for newspaper work. Actually, the curriculum leading to the degree of Bachelor of Arts in Journalism is not narrowly vocational or technical, but is designed to combine the essential elements of a liberal education and of professional training, both of which are useful and desirable in journalistic work. The requirements of the journalism degree, based upon a four-year course, include not only professional and technical courses in journalism, but the basic courses in rhetoric, English and American literature, history, political science, economics, sociology, and other liberal arts subjects.

The A.B. in Journalism curriculum, moreover, while requiring less science and language than the traditional A.B. degree, is sufficiently flexible to permit the student to take a supplementary major in such subjects as English, history, and psychology, in addition to that in journalism. Thus, for example, a student who wishes to be prepared to teach and supervise school publications and publicity may take the required courses in education in connection with the journalism degree. In the same way, a student may combine journalism with art, English, history, economics, or other related subjects in which he is interested.

COURSES FOR VARIOUS GROUPS

In addition to those students who are interested in professional preparation for journalistic work, courses in the School of Journalism are chosen by several other groups, such as the following:

- (1) Those who are interested in writing and who see in journalism courses an opportunity to develop ability in observation, clear thinking, accuracy, and effective expression.

- (2) Those who recognize the cultural benefits of certain courses, such as the history of journalism, contemporary American magazines, and literary criticism. These students feel that work in journalism, including the report-

ing of lectures and addresses, interviewing visiting celebrities, and doing the research necessary to the writing of special articles or editorials, vitalizes and increases the appeal of their other liberal arts subjects.

(3) Those students who are interested in journalism as a social science. These young people, realizing that the press and radio, along with the schools and churches, are a great social agency which reflects and in a measure directs civilization's evolving processes, choose certain courses in the School of Journalism just as they would choose those in sociology or government.

(4) Those students who see the practical usefulness of a knowledge of journalism in their after-college days. All the students in the School of Forestry, for example, are required to have one course in journalism and one in public speaking on the theory that after their graduation both subjects will be useful to them. In the same way, home economics, business administration, and pre-law students often elect courses in journalism.

(5) Those who appreciate the fact that the consumers of journalism will always far outnumber the producers and that a liberal education should include an understanding of newspapers, magazines, and contemporary books, which will constitute an important part of their reading in after-college days.

The relationship of a free press to the democratic form of government, and the increasing references to this subject in political discussions here and abroad, make a knowledge of journalism a necessary part of a liberal education.

PRACTICAL WORK

In the professional courses the instruction includes not only textbook study, analyses of the current press, lectures, and recitations, but practice under careful supervision. An effort is made to anticipate in the School of Journalism the conditions which will confront the journalism graduate. In the reporting class, for example, students cover standard sources of news, both in the city and on the campus, gathering and writing their copy with a view to publication either in the campus newspaper or in the Athens daily newspaper, which cooperates with the School by publishing meritorious student work. Students in the copy reading courses edit real newspaper copy, some of which is written by the reporting class, and some of which is furnished by news associations. Theoretical instruction in broadcasting, editing, headline writing, and newspaper make-up is supplemented with laboratory practice. In the editorial course students not only study the theory of the subject but write editorials and make critical analyses of representative editorial pages. In fact, throughout all the courses in journalism an effort is made to strengthen the instruction with laboratory practice. Many of the students make their first contacts with newspapers and magazines by submitting and having accepted feature articles written in connection with their work in the course devoted to that subject. Special editions of the Athens newspaper are prepared by the students from time to time. Field trips for similar experience in other towns have also been organized. Practical experience is provided in radio and advertising classes.

SUMMER VACATION INTERNSHIPS

To provide practical experience in addition to that received as a part of their courses in journalism, summer vacation internships on newspapers, with radio stations, in advertising departments, etc., are arranged for superior students between their junior and senior years. This summer work is not obligatory, but is recommended for those qualified students as a means of broadening their understanding and appreciation of current problems in journalism, and of making valuable contacts among journalists. The Grady School pioneered in this adaptation of a fundamental practice in medical education and has received the cooperation of newspapers, magazines, advertising departments and agencies, and other phases of journalism in Georgia and other states.

BUILDING AND EQUIPMENT

The School of Journalism is housed in the Commerce-Journalism Building which was completed in the spring of 1928 and to which a large addition was made in 1947-48. In addition to ample classroom space, there is a large editorial room, which is equipped with typewriters and a copy desk. A large reading room offers the students many newspapers and periodicals. The University Library houses the books on journalism used by the students for supplementary reading.

The printing division of the University is a department of the School of Journalism, and serves as the typography laboratory of the School. The purpose of the laboratory work is not to teach printing but to familiarize students with the principles of typography involved in editing copy, writing headlines, preparing advertising layouts, and in making up newspapers and magazines.

A radio studio and a dark room are equipped to serve as laboratories for courses in radio and news photography.

EMPLOYMENT OF GRADUATES

Graduates of the School of Journalism are filling excellent positions with newspapers, press associations, advertising agencies and departments, book and magazine publishers, schools and colleges, radio stations, and specialized publications in all parts of the country. Although the School of Journalism does not guarantee to secure positions for its graduates, members of the faculty gladly assist those whose records in the classroom and in extra-curricular activities recommend them for employment. A recent study showed that a high percentage of the School of Journalism graduates is profitably employed in various phases of journalism. In addition to those receiving the journalism degree a number of University alumni who took courses in journalism in connection with other degrees are actively engaged in journalistic pursuits. Some of these Grady alumni hold important executive positions. *The School of Journalism does not aim exclusively at the training of recruits for newspaper work, but rather would provide a broad cultural and professional education which will be useful in any work calling for a knowledge of journalism and contemporary affairs.*

GEORGIA PRESS INSTITUTE

Sponsored jointly by the Georgia Press Association and the School of Journalism, the Georgia Press Institute is designed to assemble annually newspaper men and women, teachers of journalism and their students, and public men for round table conferences, lectures, and addresses on subjects of contemporary journalistic interest. Many prominent journalists have been brought to Athens on these occasions. The Press Institute is in its 23rd year.

GEORGIA RADIO INSTITUTE

Sponsored jointly by the Georgia Association of Broadcasters and the Henry W. Grady School of Journalism, the Georgia Radio Institute is patterned after the Press Institute, and assembles the broadcasters of the state and students of radio of Georgia colleges to hear addresses by leading persons in the industry and to discuss, at round table sessions, various contemporary broadcasting problems. The 1951 Radio Institute will be the sixth annual session.

INDUSTRIAL EDITORS' INSTITUTE

Sponsored jointly by the Southern Industrial Editors' Association and the Henry W. Grady School of Journalism, the fourth annual session of the Industrial Editors' Institute was held during the fall of 1950. Patterned

after the Press Institute and the Radio Institute, the emphasis was on house organs, trade journals, and specialized magazines. Outstanding authorities in these fields were the principal speakers.

GEORGIA SCHOLASTIC PRESS ASSOCIATION

Sponsored by the School of Journalism and the University chapter of Sigma Delta Chi, the annual conventions of the Georgia Scholastic Press Association are held in Athens during the early part of May. The program of these conventions is designed to be helpful to the high school journalists of the state, and includes addresses, lectures, and round table discussions of various phases of school publication work. The association was organized June 14, 1928, at the University with this three-fold objective: (1) to stimulate interest in high school writing courses; (2) to raise the standards of high school journalists; and (3) to bring about a closer association between the Henry W. Grady School of Journalism and the high school students in Georgia interested in journalism. Through the Association, scholarships, prizes, and certificates of distinction are awarded to meritorious high school newspapers and staff members by the School of Journalism.

GEORGIA COLLEGIATE PRESS ASSOCIATION

Also organized (May 5, 1933) by the School of Journalism and the University chapter of Sigma Delta Chi is the Georgia Collegiate Press Association, which has the following objectives: (1) to provide a closer association among the college journalists of Georgia; (2) to provide a means of recognizing meritorious journalistic efforts through the annual award of suitable distinctions; (3) to raise the standards of the college press of Georgia; and (4) to foster among college journalists of Georgia an interest in journalism not only as a profession but as an important social science. Meetings of this association similar to those of the Georgia Scholastic Press Association are held regularly.

THE PEABODY RADIO AND TELEVISION AWARDS

Radio, as stated elsewhere in this bulletin, is an important phase of journalism. The George Foster Peabody Radio and Television Awards are an effort by the Grady faculty to be of educational assistance to a vital agency of communication.

Designed to give educational recognition for public service by radio, and honoring a distinguished benefactor and life trustee of the University, these awards were established in May, 1940, by the Board of Regents of the University System of Georgia, with the approval and active cooperation of the National Association of Broadcasters. Nationally prominent Americans constitute the personnel of the Advisory Board, which through the School of Journalism, administers these Awards. They are:

Edward Weeks, Editor, *Atlantic Monthly*, Boston, Chairman.

Mrs. Elizabeth Ames, Executive Director, "Yaddo," Saratoga Springs, New York.

John H. Benson, formerly President, American Association of Advertising Agencies, New York City.

Bennett Cerf, President, Random House, Inc., New York City.

John Crosby, Radio Columnist, *New York Herald Tribune*.

Jonathan Daniels, Editor, *Raleigh (N. C.) News and Observer*.

Mark Ethridge, Publisher, *Louisville (Ky.) Courier-Journal and Times*.

Earl J. Glade, Mayor of Salt Lake City, Utah.

Philip Hamburger, Television Writer, *The New Yorker*.

Joseph Henry Jackson, Literary Editor, *San Francisco (Calif.) Chronicle*.

Waldemar Kaempffert, Science Editor, *New York Times*.

Mrs. Dorothy Lewis, Coordinator, U. S. Stations Relations, United Nations.

Ralph McGill, Editor, *Atlanta Constitution*.

Paul Porter, formerly Chairman, Federal Communications Commission, Washington, D. C.

I. Keith Tyler, Director of Radio Education, Ohio State University, Columbus, Ohio.

Ex-Officio

The Chancellor, University System of Georgia.

The Dean, Henry W. Grady School of Journalism, University of Georgia.

SIGMA DELTA CHI

The University of Georgia is one of the few Southern institutions having a chapter of Sigma Delta Chi, national professional journalistic fraternity. The Georgia chapter was installed in 1928. Its membership is restricted to those male students with good scholastic standing whose professional journalistic work is of meritorious character. Sigma Delta Chi sponsors extra-curricular journalistic activities of various kinds, and aims to promote higher journalistic ideals in the School and in the state. The Sigma Delta Chi Scholarship Award is presented to those in the upper ten per cent of the graduating class.

THETA SIGMA PHI

Composed of a selected group of advanced women students, Theta Sigma Phi is a national fraternity designed to advance the interests of women journalists. Membership is restricted in a manner similar to that of Sigma Delta Chi. The local chapter has its own extra-curricular journalistic activities, but cooperates with Sigma Delta Chi in joint undertakings.

DI GAMMA KAPPA

Di Gamma Kappa is a national professional radio fraternity. Organized at the University of Georgia in 1939, it sponsors various extra-curricular activities for students interested in broadcasting, and cooperates with the School of Journalism in the conduct of the Georgia Radio Institute and similar special occasions.

KAPPA TAU ALPHA

Kappa Tau Alpha recognizes and encourages high scholarship among students in journalism. Membership is restricted to the upper ten per cent of the graduating seniors. The University of Georgia chapter was the seventh to be established in the nation.

SCHOLASTIC FRATERNITIES AND CLUBS

Students in the School of Journalism are eligible for election to Phi Beta Kappa and Phi Kappa Phi, honorary scholastic fraternities. Membership is awarded to a limited group of seniors, the selection being made on the basis of character and high scholarship. In addition to the scholastic, professional, and social fraternities at the University, there are other honorary clubs and organizations, membership in which is open to journalism students.

STUDENT PUBLICATIONS

The University has a weekly newspaper, *The Red and Black*, and a monthly magazine, *The Georgia Cracker*, the editorial staffs of which are composed largely of students in the School of Journalism. The campus annual, *The Pandora*, and other publications also have journalism students on their staffs. Students in the School of Journalism write for the local paper and serve various metropolitan newspapers as University correspondents.

BACHELOR OF ARTS IN JOURNALISM

Non-journalism courses required in all sequences (core curriculum):

	Hours
English 2 x-y	10
Physical Science 1-2	10
Human Biology 1-2	10
Mathematics 101x or 101y	5
Foreign Language	10

Students who offer for entrance two or more units of a foreign language (Greek, Latin, French, German, Spanish, Italian, or Portuguese) are required to take at least two courses in college in foreign language. Students who choose to continue in college the language they offered for entrance are required to take courses 103 and 104. Those students who enter without any foreign language credits may absorb the language requirement by taking either two courses in each of two languages or three courses in one language.

Social Science 4	10
English 22-x-y	10
History 110 x-y	10
Political Science 1	5
Psychology 1	5
Physical Education 1-2 and Military Science 1-2 or Air Science 5-6 (for men) or Physical Education 1-2 (for women)	10
	<hr/> 90

NOTE: Those students who cannot operate a typewriter are advised to take Business Administration 7, 303, and/or 304 during the fall and winter quarters of their freshman year.

Journalism courses required in all sequences (core curriculum):

Journalism 1 or 350	5
Journalism 20 or 420	5
Journalism 30 or 430	5
Journalism 40 or 440	5
Journalism 351	3
Journalism 454	3
Journalism 456	5
Journalism 457	5
Journalism 458	3
Total	<hr/> 39

NEWS-EDITORIAL SEQUENCE

Journalism courses required, in addition to core curriculum:

Journalism 352	3
Journalism 453	3
Journalism 355 a-b	6
Journalism 360, 370, or 371	5
Journalism 364	3
Journalism 459	3
Journalism 467	3
Total	<hr/> 26

Supplementary Major of 24-27 hours from such social sciences as history, political science, sociology, and psychology. Electives to complete a total of 195 hours.

RADIO-JOURNALISM SEQUENCE

Journalism courses required, in addition to core curriculum:

Journalism 369	5
Journalism 371	5
Journalism 372	5
Journalism 373	5
Journalism 374	5
Journalism 386 or 396	5
Total	30

Supplementary major of 24-27 hours from music, drama, and speech. Electives to complete a total of 195 hours.

ADVERTISING-BUSINESS SEQUENCE

Journalism courses required, in addition to core curriculum:

Journalism 208	5
Journalism 352	3
Journalism 364	3
Journalism 475	5
Journalism 476	5
Journalism 474, 477, or 478	5
Total	26

Supplementary major of 24-27 hours from economics, business administration, and psychology. (Economics 5, Business Administration 462, 463, 464, and Psychology 371, 373 especially recommended.) Electives to complete a total of 195 hours.

JOURNALISTIC-LITERARY APPRECIATION SEQUENCE

Journalism courses required, in addition to core curriculum:

Journalism 453	3
Journalism 355 a-b	6
Journalism 360 or 370	5
Journalism 369	5
Journalism 459	3
Journalism 467	3
Total	25

Supplementary major of 24-27 hours from the humanities, fine arts, social sciences. (American and English literature courses especially recommended.) Electives to complete a total of 195 hours.

NOTE: A minimum grade of C is required in all major subjects. All supplementary major subjects and electives shall be chosen with the approval of the Dean of the School of Journalism and are determined by the sequence in which the student is especially interested.

FIVE-YEAR SEQUENCE

A student who has received the A.B. degree from a college belonging to a standard regional association may satisfy the requirements for the A.B. in Journalism degree with a minimum of 45 hours in Journalism, selected with the approval of the Dean of School of Journalism. Such a student must be in residence at the University three quarters.

COMBINATION GRADUATE COURSE IN JOURNALISM AND BUSINESS ADMINISTRATION

The degree of Master of Business Administration may be taken as a combination curriculum of the School of Journalism and the College of Business Administration, leading to the degree of A.B. in Journalism in four years, and the M.B.A. after an additional four quarters of study. This program is designed to aid those anticipating interpretative writing in economics and related fields, and also those who plan to work in the business phases of journalism.

Students who contemplate pursuing this combination should register for the Advertising-Business Sequence, A.B. in Journalism degree. The supplementary major plus electives (totaling 40 hours) should be selected from offerings of the Colleges of Business Administration, including Economics 5x (Principles of Economics), Business 6x (Accounting), and the Business Administration core curriculum with the exception of Business Administration 370.

As a graduate of the School of Journalism with the foregoing undergraduate courses, the student may complete the requirements for the M.B.A. degree in four quarters. At least 40 of the 60 hours required for this degree must be taken from offerings of the College of Business. The remaining 20 hours may be taken as a minor in the School of Journalism.

COMBINATION COURSE IN JOURNALISM AND LAW

An understanding of the various phases and techniques of journalism is of much value to the lawyer. Likewise, a knowledge of the law is useful to the journalist. On this premise, a combination law and journalism curriculum has been set up, similar to that which exists in the College of Arts and Sciences and the College of Business Administration. This is a six-year program, leading to the two degrees, Bachelor of Arts in Journalism and Bachelor of Laws. Under this arrangement, the first year in the School of Law takes the place of the fourth year in the School of Journalism. The student must, however, satisfy all the specific course requirements in the School of Journalism, including the non-journalism courses in the core curriculum, the journalism courses required in all sequences, and the journalism courses in the particular sequence chosen by the student. The work in law, in this joint program, becomes the supplementary major required of all candidates for the journalism degree. Under this joint arrangement, the degree of A.B. in Journalism will be granted upon the satisfactory completion of the first year of law and a total of 185 quarter hours (exclusive of physical education and/or military or air science).

MASTER OF ARTS IN JOURNALISM

The Master of Arts in Journalism will be conferred upon the completion of a major in Journalism, a minor in the social sciences, a minor in English, and the preparation of a satisfactory thesis upon the subject assigned. Prerequisites for candidacy for this degree are the A.B. or A.B. in Journalism from an accredited institution and the necessary undergraduate courses in Journalism.

ONE-YEAR COURSE

To serve as a refresher course for returned veterans and others who wish to spend only one year in college, the School of Journalism offers a special three-quarter program, normally consisting of 45 hours in journalism and related subjects. Only those persons with a serious and definite reason are admitted to this short program. A student who enrolls for the special one-year program may later become a candidate for the A.B. in Journalism degree by meeting all entrance and residence requirements.

The one-year program was originally set up to help meet the war-created personnel shortages and also to provide some university education for pre-draft age youths. The usefulness of the course on this basis has led to its continuation in the post-war period for the groups mentioned above.

COURSES OF INSTRUCTION

(Commerce-Journalism Building, North Campus)

The University reserves the right to withdraw any course for which the registration is not sufficiently large, and to offer courses not here listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated all courses meet five hours a week and carry five hours credit.

FRESHMAN AND SOPHOMORE CLASSES

1. INTRODUCTION TO JOURNALISTIC WRITING. *Mr. Drewry, Mr. Butler, and Mr. Griffith.*

An introductory survey of newspaper methods, news values, news writing, and reporting.

20. PRINCIPLES AND ETHICS OF JOURNALISM. *Mr. Drewry.*

A study of the fundamentals of journalism, including ethics, practice, and trends.

30. HISTORY OF JOURNALISM. *Mr. Butler and Mr. Talmadge.*

A study of the development of the newspaper, particularly in the United States, including biographical studies of outstanding editors, a consideration of journalism in its various periods and conditions, and the aims of journalism.

40. PUBLIC OPINION AND JOURNALISM. *Mr. Butler, Mr. McDougald, and Mr. Talmadge.*

A study of the influence of journalism upon opinions, standards of living, tastes, and morals in American life. This course includes a survey of the theory of public opinion, particularly the part of newspapers, radio, and other agencies of communication in the development of the intelligent public mind.

JUNIOR AND SENIOR COURSES

208. ADVERTISING ART. *Mr. Dodd and Art Staff.* (Also offered as Art 208.)

Fundamentals of lettering, color, design, typography, packaging, and reproduction as related to modern advertising problems. Layout of newspaper, magazine, and direct-mail advertising.

300. INTERNSHIP. 1 to 15 hours. Prerequisites: Basic courses in technique and permission of the Dean of the School of Journalism.

A few superior students of junior or senior standing will be permitted to register for this course as a means of obtaining practical experience over and above that offered in this School. The exact amount of credit will be determined in each instance and indicated on the registration card, but under no circumstances can exceed 15 hours, or one quarter's work.

343. MANAGEMENT OF COMMERCIAL AND TRADE ORGANIZATIONS. 3 hours. (Also offered as Business Administration 451). *The Staff and special lecturers.*

A study of the functions, programs, structure, policies, financing, public relations, administration, and legal aspects of commercial and trade organizations.

344, 345, 346. ADVANCED RADIO ACTING AND PRODUCTION. Three separate three-hour courses. *Mr. Ballew.*

An advanced course in radio acting and script analysis. Plays will be rehearsed in the Laboratory Theatre and radio plays broadcast from the studio in the Commerce-Journalism Building. An elective course open to all juniors and seniors who have had Drama 34, 35, 36 and/or consent of the instructor.

350. NEWS WRITING AND REPORTING. (Part 1). *Mr. Drewry, Mr. Butler, and Mr. Griffith.*

Part A of this course consists of a consideration of newspaper organization and procedure, news values, news writing and reporting. Part B includes instruction in typewriting and writing various types of news stories under supervision.

351. COPY READING AND EDITING. 3 hours. Prerequisite: Journalism 1 or 350. *Mr. Butler and Mr. McDougald.*

Theory and practice in editing copy, determining news values, and writing headlines. Press association and syndicate services are used in the laboratory.

352. MAKE-UP AND TYPOGRAPHY. 3 hours. Prerequisites: Journalism 1 or 350 and 351. *Mr. Butler, Mr. Griffith, and Mr. Peters.*

A continuation of Journalism 351, with special emphasis on newspaper and periodical make-up and typography. Practical work is made possible by a printing laboratory.

355 a-b. NEWS WRITING AND REPORTING (Part 2). 6 hours. Prerequisite: Journalism 1 or 350. *Mr. Butler, Mr. Griffith, and Mr. McDougald.*

A course designed to give students both theory and experience in covering reporter assignments in newspaper work.

360. THE REPORTING OF PUBLIC AFFAIRS. Prerequisites: Journalism 1 or 350 and 355. *Mr. Griffith and Mr. McDougald.*

Theory and practice in covering the news of governmental activities, together with a detailed survey of municipal, state, and federal organization and the administration of public affairs.

361. DRAMATIC CRITICISM. 3 hours. *Mr. Ballew, Mr. Lunceford, and Miss Vance.*

Theory and practice in reviewing stage productions, motion pictures, and concerts.

362. THE SHORT STORY. 3 hours. *Mr. Griffith and Mr. Talmadge.*

A practical writing course for students who have mastered the fundamentals of English expression and who are interested in writing fiction for contemporary magazines or other markets.

364. NEWSPAPER ADMINISTRATION. 3 hours. *Mr. Butler, Mr. Griffith, and Mr. Peters.*

A course intended for those interested in the business and editorial management of small daily and weekly newspapers.

368. CONTEMPORARY NEWSPAPER PRACTICE. *Mr. Butler, Mr. Drewry, Mr. Griffith, and Mr. McDougald.*

A survey of news writing, feature writing, and newspaper practice for specialized groups, such as students in agriculture, home economics, county agents, and others whose work involves writing for the press or dealing with newspaper reporters and editors. Special attention will be given to publicity and promotional methods for educational purposes.

369. THE RADIO IN JOURNALISM. *Mr. Lunceford.*

An introductory survey course in which various aspects of radio are considered. Radio, as a phase of journalism, is especially stressed. There are some practical assignments, involving writing, acting, voicing of programs, and use of the School's studio-laboratory.

371. RADIO NEWS. Prerequisite: Journalism 1 or 350, or special permission. *Mr. Lunceford and Mr. McDougald.*

The processing of news for radio, including the psychology of "ear" news, basic style, evaluation of stories, arrangements of 5 and 15 minute newscasts, news spots, and analysis of newscasts being presented over network and local stations.

372. THE SOCIAL ASPECTS OF RADIO. Prerequisites: Journalism 1 or 350, 20, 40. *Mr. Lunceford.*

Radio as a social force. A comparison of commercial radio broadcasting, as it exists in this country, with the systems used in other nations. The role of the FCC and FTC in "regulating" American broadcasting. How radio serves the "public interest, convenience, and necessity," as compared with other media of communication. Preparation of documentary scripts for eventual marketing in the public service broadcasting field.

373. RADIO PERFORMANCE. Prerequisites: Journalism 1 and 369, 371, or 372 (one of last three). Class will be limited to ten carefully chosen students definitely interested in radio as a career. *Mr. Lunceford.*

A laboratory course wherein the student gets actual experience, under faculty supervision, in various aspects of broadcasting. On-the-job experience will be supplemented by weekly seminars and regular conferences with instructors.

374. RADIO ADVERTISING. Prerequisite: Journalism 1 or 350. *Mr. Lunceford.*

Radio as an advertising medium. Preparation of scripts and various types of commercial programs.

375. TELEVISION. *Mr. Lunceford.*

An introductory course concerned with the history, problems, and techniques of television. Theoretical instruction is supplemented by laboratory observation and work in the School's radio studios, the University Theatre, and nearby television stations.

376. (PHYSICS) PRINCIPLES OF PHOTOGRAPHY. 3 hours. One hour of recitation and four hours of laboratory work. Prerequisite: Physical Science 1, Physics 20, or the equivalent. Supply deposit, \$10. *Mr. Dixon.*

An elementary approach to the factors involved in the choice of a camera, the exposure and development of the film, the production of contact prints, the enlargement of prints, and color photography.

377. NEWS PHOTOGRAPHY. 3 hours. *Mr. McDougald and Mr. Stephens.*

A study of the photographic requirements of newspapers and magazines and the technique of news photography with elementary training in the use of various cameras, development, and enlarging. Selection of photographs for publication, including editing, scaling to size, the engraving processes, and caption writing.

386. RADIO—ORAL INTERPRETATION OF LITERATURE. Prerequisite: Journalism

369. *Miss Vance.* (Also offered as Speech 369.)

Fundamental principles of analysis, phrasing and emphasis. Development of vocal skills demanded in meaningful oral reading of lyric and narrative literature—with special reference to radio journalism.

396. RADIO—DRAMATIC INTERPRETATION. Prerequisite: Journalism 369. *Miss Vance.* (Also offered as Speech 396.)

Appreciation of drama and development of oral reading skills through the study and presentation of Browning's dramatic monologues and original adaptations of one play from each of the following: Shakespeare, Ibsen, Shaw, O'Neill, and Maxwell Anderson—with special reference to radio journalism.

JUNIOR-SENIOR OR GRADUATE COURSES

400. FOREIGN NEWS AND THE EUROPEAN PRESS. (Offered *in absentia*, with all class periods on shipboard or in Europe.) Prerequisite: Consent of the Dean of the School.

An investigative pro-seminar course open to a limited number of advanced students who arrange to travel under the supervision of the instructor. With the cooperation of American newspaper and press services, students will conduct research in European capitals through conferences with American foreign correspondents, visits to European newspapers, meetings with representatives of governmental propaganda ministries, and lectures by the instructor.

420. THE LITERATURE OF JOURNALISM. *Mr. Drewry.*

An advanced study of the origins and fundamentals of modern journalism, including ethics, practices, and trends, with the emphasis on extensive readings in the literature of the entire communications field.

430. HISTORY OF JOURNALISM. *Mr. Butler and Mr. Talmadge.*

An advanced course in the history of journalism in which the students make historical studies of certain newspapers or groups of newspapers, preferably Georgia or Southern, and biographical studies of editors.

440. PUBLIC OPINION AND JOURNALISM. *Mr. Butler and Mr. Talmadge.*

An advanced course devoted to an examination of the influence of the newspaper and other journalistic agencies in the direction and control of public opinion.

453. THE EDITORIAL. 3 hours. Prerequisite: Journalism 1 or 350. *Mr. Drewry, Mr. Griffith, and Mr. Peters.*

A study of the technique of writing various types of editorials, with practical assignments in each type. A study of interpretation and comment. Students in this course make critical analyses of representative editorial pages.

454. THE LAW OF COMMUNICATIONS. 3 hours. *Mr. Butler.*

A consideration of certain legal aspects of journalism (radio as well as the press), including libel, contempt of court, right of privacy, copyright, and postal laws.

456. THE MAGAZINE. *Mr. Drewry.*

This course is intended for two groups: (1) those who are interested in contemporary thought and in magazines as a phase of current American literature; and (2) those who plan to contribute to magazines, and therefore would know the markets. Attention is given to current American writers, particularly their work for the periodical press. Magazines are considered in historical and contemporary perspective.

457. ADVERTISING PRACTICE. *Mr. Drewry.*

A survey of the advertising field, including the manufacturer, the advertising agency, and the media—newspaper, magazines, billboards, the radio, etc. Theory and practice in writing various types of advertisements.

458. **FEATURE WRITING AND SPECIAL ARTICLES.** 3 hours. *Mr. Drewry, Mr. Griffith, and Mr. Lunceford.*

Theory and practice in writing articles of a varied character for newspapers, magazines, syndicates, trade journals, and the radio.

459. **LITERARY APPRECIATION.** (Book Reviewing.) 3 hours. *Mr. Drewry, Mr. Griffith, and Mr. Talmadge.*

A course in literary appreciation and evaluation, with the emphasis on current books and the preparation of reviews for newspapers, magazines, radio, and specialized publications.

463. **ADVANCED FEATURE, FICTION, AND RADIO WRITING.** 3 hours. Prerequisite: A satisfactory grade in Journalism 458, 362, or 369. *Mr. Drewry, Mr. Griffith, Mr. Lunceford, and Miss Vance.*

A continuation of production work begun in feature, fiction, or radio writing, with emphasis on marketing, publication, or broadcasting.

466. **JOURNALISM IN THE SECONDARY SCHOOL.** *Mr. Butler, Mr. Drewry, and Mr. McDougald.*

A survey of news gathering, news writing, copy reading, typography and business management, with specific relation to the high school newspaper.

467. **CONTEMPORARY AMERICAN NEWSPAPERS.** 3 hours. *Mr. Butler and Mr. Griffith.*

A study of outstanding present-day newspapers in the United States, including a consideration of their development, noted personalities of their staffs, and their characteristics and policies.

469. **GEORGIA JOURNALISM.** Prerequisite: Journalism 30 or 430, Political Science 1, and History 459. *Mr. Butler, Mr. Griffith, and Mr. Talmadge.*

A study of the place of Georgia newspapers, periodicals, editors, and contributors in American history and in American journalism.

475. **ADVERTISING COPY WRITING.** Prerequisite: Journalism 1 or 350. *Mr. Talmadge.*

Principles and practice in the preparation of copy for a variety of media. Reader surveys, copy tests, and a study of products in relationship to copy and markets are a part of this course.

476. **ADVERTISING MEDIA.** Prerequisites: Journalism 1 or 350 and 457 or 475. *Mr. Talmadge.*

A study and evaluation of the principal advertising media, including newspapers, magazines, trade publications, radio, outdoor, novelty, and cinema. The work of an advertising office or agency and the selling of space or time are considered.

477. **PUBLICITY.** *Mr. McDougald and Mr. Talmadge.*

A study of the types and techniques of publicity, as a means both of selling merchandise and of influencing public opinion. Analyses of publicity campaigns and discussions of the ways in which various media can be utilized. A term paper on some phase of publicity is required.

478. **RETAIL ADVERTISING COPY AND SALES PROMOTION.** Prerequisite: Journalism 475. *Mr. Talmadge.*

Analysis of overall promotion of the department store and other retailers. Preparation of copy for various types of retail advertisers and for the various media used by the retailer. Each student will write a term paper in the phase of retail advertising which particularly interests him.

GRADUATE COURSES

807-808. **ADVERTISING.** 10 hours. *Mr. Drewry.*

Special work based on Journalism 457.

830. **RESEARCH IN JOURNALISM.** Prerequisite: 30 or more credit hours in journalism at the senior or graduate level. Open only to graduate students in journalism. *Mr. Butler, Mr. Drewry, and Mr. Talmadge.*

Individual research in journalism. Permission of the instructor required.

THE SCHOOL OF HOME ECONOMICS

THE FACULTY

PAULINE PARK WILSON, B.S., M.A., Ph.D., *Dean.*

PATRICIA JACKSON, *Secretary.*

LELAND ROGERS ALEXANDER, B.S.H.E., M.S.H.E., *Associate Professor of Institution Management.*

MARY ANDERSON, B.S.H.E., *Instructor in Housing and Equipment and Research Assistant.*

ADA ELIZABETH ARMSTRONG, B.S.H.E., M.S.H.E., *Assistant Professor of Clothing and Textiles.*

MARGARET HARRIS BLAIR, B.S.H.E., M.A., *Professor of Clothing and Textiles.*

MATILDA CALLAWAY, B.S.H.E., M.A., *Associate Professor of Home Economics.*

MARY ETHEL CRESWELL, B.S.H.E., *Dean Emeritus of the School.*

NOBLE SANDRA DOOLEY, B.S.H.E., *Instructor in Child Development.*

MARGARET DYKES, B.S.H.E., M.S.H.E., *Assistant Professor of Nutrition and Institution Management.*

MARY IRMA HICKS, B.S., M.A., *Associate Professor of Clothing and Textiles.*

MAUDE PYE HOOD, B.S.H.E., M.S.H.E., Ph.D., *Professor of Foods and Equipment.*

MARION FAY JONES, B.S.H.E., M.S.H.E., *Assistant Professor of Child Development.*

MARTHA LABOON, B.S.H.E., M.S.H.E., *Instructor in Child Development.*

EDGAR J. MAXWELL, JR., M.D., *Medical Advisor to the Nursery School.*

KATHRYNE MOORE MCCRANEY, B.S.H.E., *Laboratory Instructor in Child Development.*

MARGARET ELIZABETH MCPHAUL, B.S.H.E., M.A., *Assistant Professor of Child Development.*

LEONORA MIRONE, A.B., M.S., Ph.D., *Associate Professor of Nutrition.*

PEARL CAMPBELL MOON, B.S.H.E., M.A., *Associate Professor of Home Management.*

CATHERINE LOWRANCE NEWTON, B.S.H.E., M.A., *Professor of Foods and Nutrition.*

IRWIN VINCENT SPERRY, A.B., M.Ed., Ed.D., *Professor of Family Development.*

CHARLOTTE OSLIN TUCK, B.S.H.E., *Instructor in Institution Management.*

MARION SKINNER WALKER, B.S.H.E., M.S.H.E., *Assistant Professor of Household Equipment.*

PAULINE PARK WILSON, B.S., M.A., Ph.D., *Professor of Home Economics and Dean of the School of Home Economics.*

OMER CLYDE ADERHOLD, B.S.A., M.S., Ph.D., *President of the University.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Dean of Faculties.*

JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Dean of Student Affairs.*

WALTER NEWMAN DANNER, JR., B.S.A.E., M.S.A., *Registrar and Director of Admissions.*

JOHN DIXON BOLTON, C.P.A., *Comptroller and Treasurer.*

GENERAL INFORMATION

HISTORY AND PURPOSE

The School of Home Economics originated as the Division of Home Economics of the State College of Agriculture in 1918 and offered the first undergraduate work open to women in the University of Georgia. The earliest curriculum marked the first opportunity for women to secure the baccalaureate degree from any state supported institution in Georgia. The School of Home Economics was established in 1933 when the Household Arts Department of the State Teachers College was merged with the Division of Home Economics of the Georgia State College of Agriculture.

The School of Home Economics takes as its major objectives the preparation of students for satisfactory and effective family life and training for professional careers. The first is achieved by means of a well-rounded program of general, scientific, and technical education, and the second through a variety of home economics curricula. Since a high percentage of all home economics graduates ultimately marry and go into homes of their own, it is important that the basic curriculum prepare them for homemaking. The student who chooses to enter home economics for vocational preparation will find in this field an interesting choice of professional opportunities.

Specialization in major concentration begins in the junior year. Students transferring from other institutions should enter the University not later than the beginning of the junior year, since schedule conflicts may prevent securing junior and senior technical subjects in the same year even though prerequisites have been completed. Limited registration in certain courses frequently makes them available only to seniors.

Graduates of the School have filled positions as home economics teachers both in high schools and colleges, home demonstration agents, service workers with such agencies as the Farm Home Administration, hospital dietitians, demonstrators for commercial organizations, department store buyers, personnel and public relations workers, and nursery school teachers.

The School of Home Economics also offers a wide variety of subject matter in general for both men and women from other schools in the University who are interested in home and family education as well as in certain technical phases of home economics.

FACILITIES

Erected in 1932, Dawson Hall is located on South Campus. It is within walking distance of the North Campus and the business center of the city.

Dawson Hall is a three-story structure containing modern and fully equipped teaching and research laboratories for equipment, foods, nutrition, textiles, clothing, home nursing, and home furnishing, as well as recitation rooms. The building was remodeled in 1948-49 to include the most recent developments in home economics. In close proximity to Dawson Hall are three girls' dormitories: Soule Hall, Mary Lyndon, and Rutherford Hall; the Physical Education Building for Women; four home management houses; the nursery school; and Lumpkin Hall Library.

In addition to the administrative and faculty offices, the building provides a student and faculty lounge and an auditorium for special programs, assemblies, moving picture showings, and club meetings. It also provides a reading room for the Homecon club and the Phi Upsilon Omicron room. A tearoom is operated for University faculty, students, and friends.

The School of Home Economics maintains, in cooperation with the Department of Psychology, a nursery school as a laboratory for courses in child development. The Department of Psychology collaborates in teaching, gives psychological tests, and offers a consultant service to parents. A pediatrician

serves as consultant on the staff. The nursery school is housed in a separate building conveniently located and equipped with reference to needs of the pre-school child and for observation and participation by students and educational and social welfare leaders. An infant laboratory adjacent to the nursery school gives an opportunity for students to observe small babies.

Four home management houses are modernly equipped. A quarter's residence in one of these is required of all students. The furnishing and decoration of the houses give teaching material for home furnishing courses. Each house has a resident director. Students living in a small group thus have opportunity to make practical application of the sciences and arts of home economics to family life.

The institution management courses are taught in the college dining halls under the direction of the dietitian in charge. Catering for large groups is done in the main dining hall. In Dawson Hall a laboratory for catering for smaller groups is maintained and the Home Economics tearoom is used for teaching tearoom management.

The new household equipment laboratory is located in Dawson. Through cooperation of manufacturers and distributors, appliances are placed in this laboratory on consignment basis, thus making it possible to keep the equipment up to date. Home economics students use this laboratory in studying care of the home and for operation and efficiency studies.

STUDENT ACTIVITIES

Home economics students are eligible to participate in all general University activities. Special activities in the School of Home Economics are carried on by the Homecon club whose semi-monthly meetings are attended by majors in the School. The national honorary home economics sorority on the campus is Phi Upsilon Omicron. Membership in this is based on scholarship, extra-curricular activities, and professional attitude. Junior Homecon is open to freshmen and sophomores. A student-faculty committee is representative of student groups within the school and serves in an advisory capacity on matters pertaining to home economics.

SCHOLARSHIPS AND AWARDS

A few scholarships and awards are open primarily to Home Economics students. For data on additional scholarships and awards, see the General Catalogue for information.

The Borden Award is made to the home economics senior who received the highest grade of any student in the School of Home Economics during the three quarters of her junior year at the University. The award is \$300.

The Danforth Fellowship provides a month's summer program for the home economics senior who holds an outstanding record of scholarship and school leadership. Two weeks at Camp Miniwanca and two weeks in St. Louis under the supervision of the Danforth staff make up the month's program. The Danforth Fellowship for freshmen is open to the outstanding home economics freshman girl both in scholarship and activities and offers two weeks of camp at Miniwanca during the summer between the freshman and sophomore years.

Kroger scholarships are awarded to high school seniors entering the School of Home Economics at the University who have high scholarship ratings and qualities of leadership. Two of these awards are open to entering home economics students each year. The scholarship is for \$200 and applications for the coming year should be in by June 15, 1951.

Two Sears-Roebuck scholarships are available each year to freshmen and sophomore home economics students. These scholarships are for \$200.

GRADUATE STUDY

The School of Home Economics offers graduate work in several phases of work that will lead toward the Master of Science degree in Home Economics. For further information on advanced study see the bulletin of the Graduate School.

DEGREE REQUIREMENTS

A total of 185 quarter hours exclusive of Physical Education is required for the Bachelor of Science in Home Economics degree. Physical Education 1 and 2 are required of all freshmen and sophomores, but may be waived for transfer students entering the junior class with full standing. Students must meet the general University scholastic requirements for graduation, and, in addition, must make a minimum grade of "C" in all courses in the major concentration.

Junior and senior schedules may vary from 45 to 48 hours with approval of the major professor and Dean of the School.

FRESHMAN		SOPHOMORE	
	Hours		Hours
Art 30	5	Art or Music	3-5
English 2x-y	10	English 22x-y	10
Science (Select from Item 2 below)	5	Science (Select from Item 2 below)	10
Social Science (Select from Item 3 below)	10	Social Science (Select from Item 3 below)	10
General Electives (Select from Item 5 below)	3	Home Economics 5	5
*Home Economics 1a-b	6	Home Economics 75	5
Home Economics 20	5	Home Economics 343	5-3
Home Economics 90	3	Physical Education	5
Physical Education	5		
	52		53-55

JUNIOR AND SENIOR CORE REQUIREMENTS

	Hours
General Electives (See major concentration or select from Item 5 below)	18
Science (Select from Item 2 below)	5
Home Economics 222 or 224	5
Home Economics 306 or 350	5
Home Economics 351 or 358	5
Home Economics 368 and 369	6
Home Economics 393 or 490	5

See major concentrations for total requirements of Junior and Senior years.

TOTAL REQUIREMENTS

	Hours
1. English 2x-y, Grammar and American Literature.....	10
English 22x-y, Survey of European Literature	10
2. Science	20

At least ten of the hours must be taken in one subject: Bacteriology, Biology, Chemistry, Physiology, Physics, Physical Science.

Specified sciences needed for certain curricula should be selected as follows:

Major in Clothing and Textiles: Chemistry 21 and 346

Major in Dietetics and Institution Management: Chemistry 21,

*Home Economics 1a is not required of students entering with advanced standing. Home Economics 1b or Education 103 or 303 (for majors in home economics education) is required of all students entering with advanced standing.

22, 346; Human Biology 1	
Major in Home Economics Education: Bacteriology 350; Chemistry 21 and 346; Human Biology 1	
Major in Experimental Foods: Chemistry 21 and 346; Human Biology 1; Physics 20	
Major in Family Development: Human Biology 1	
Major in Home Demonstration: Bacteriology 350, Human Biology 1, Chemistry 21 and 346	
Major in Housing and Management: Physics 20, Human Biology 1, Bacteriology 350	
Major in Nutrition: Chemistry 21, 22, and 346, Physics 20	
3. Social Science	20
Select courses from at least two of the following: Anthropology, Economics, Geography, History, Philosophy, Political Science, Psychology, Sociology.	
Specific courses in social science needed for certain curricula should be selected as follows:	
Major in Clothing and Textiles: Economics 5x, Psychology 1	
Major in Dietetics and Institution Management: Economics 5x, Psychology 1, Sociology or an additional Psychology	
Major in Home Economics Education: Economics 5x, Psychology 1, Sociology 5 or Social Science 4, and Political Science 1	
Major in Experimental Foods: Economics 5x, Psychology 1	
Major in Family Development: Psychology 1, Sociology 5	
Major in Home Demonstration: Economics 5x, Psychology 1, Sociology 431	
Major in Housing: Economics 5x, Psychology 1, Sociology 5	
General Major: None specified	
4. Fine Arts	8-10
Art 30 and one course in Music, Art, Visual Arts, or Crafts are to be chosen.	
5. General Electives	20
Select courses from the above Items 1, 2, 3, and 4 at least two different fields or from the following: Education, Language, Mathematics, Speech.	
Refer to major concentrations for specific courses needed in these fields.	
6. Home Economics Core Requirements	55
Home Economics 1a-b	Home Economics 222 or 223
Home Economics 5	Home Economics 343
Home Economics 20	Home Economics 306 or 350
Home Economics 75	Home Economics 351 or 358
Home Economics 90	Home Economics 368 and 369
	Home Economics 393 or 490
7. Major Concentration and Free Electives	40
At least thirty hours should be selected to meet requirements of the major concentration.	
8. Physical Education	10
Total Requirements.....	195

MAJOR CONCENTRATION

Upon completion of freshman and sophomore requirements each student will, with approval of the Dean of the School, select a major concentration. This selection should conform to one of the plans indicated, and must include forty quarter hours in home economics courses numbered 200 or above. Minor changes in programs may be made upon recommendation of the major professor with approval of the Dean.

MAJOR IN CLOTHING AND TEXTILES

This major offers training to the future homemaker for intelligently providing and caring for clothing and household fabrics for her family and her home. It gives preliminary training which may lead to commercial work; to clothing or textile designing; to becoming a clothing or textile specialist, stylist, shop worker, buyer; or to editorial writing for women's pages of newspapers or magazines.

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Home Economics 222 or 223	5 or 3
Home Economics 224	5
Home Economics 306	5
Home Economics 321	5
Home Economics 351	5
Home Economics 360 or 464	5
Home Economics 363 or 463	5
Home Economics 368, 369	6
Home Economics 461	5
Home Economics 462	5
Home Economics 490 or 393	5
Science (See page 25, Total Requirements)	5
Electives in Art	15
Electives	14 or 16
	90

Substitute Home Economics 223 if a student transfers a 3 hour course in textiles.

At least two of the art electives must be selected with approval of the major professor.

Suggested Electives: Business Administration 462; Journalism 368; Art 208, 210, 250, 251, 281, 387; Home Economics 311c and 312c; Sociology 427.

MAJOR IN DIETETICS AND INSTITUTION MANAGEMENT

This major meets the requirements of the American Dietetic Association, gives preliminary training for the dietitian, and includes work in institutional equipment, quantity cookery, catering, and accounting. It prepares the student for lunch room, tea room, and college dining hall management, and for the graduate year in hospital and administrative dietetics.

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Home Economics 222	5
Home Economics 306	5
Home Economics 351	5
Home Economics 354	5
Home Economics 393 or 490	5
Home Economics 353	5
Home Economics 368, 369	6
Home Economics 372	5
Home Economics 374	5
Bacteriology 350	5
Business Administration 6x	5
Chemistry 451	5
Education 304	5
Science (See page 25, Total Requirements)	5
Electives	19
	90

Home Economics 453 is prerequisite to interning in hospitals approved by American Dietetic Association. Other recommended electives are: Home Economics 325, 344, 355, 357, 373, 450; Journalism 368; and Landscape Architecture 301. Education 336 may be substituted for Education 304.

MAJOR IN HOME ECONOMICS EDUCATION

The major in Home Economics Education is offered jointly by the School of Home Economics and the College of Education. It fulfills the requirements for teaching in both vocational and non-vocational homemaking departments of Georgia high schools. The graduate in this program is qualified to receive a four year professional certificate. See College of Education for description of education courses.

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Home Economics 222	5
Home Economics 306	5
Home Economics 321	5
Home Economics 344	3
Home Economics 351	5
Home Economics 357 or 377	3
Home Economics 368, 369	6
Home Economics 393	5
Home Economics 490	5
Education 304, 335.2, 336.2	15
Education 346.2, 347.2, 348.2	15
Education 349	5
Science (See page 25, Total Requirements)	5
Electives	8
	90

Suggested Electives: Home Economics 357, 359, 370, 377, 461; Art 255; Dairy 383; Food Technology 363 or 409; Horticulture 365, 366; Industrial Arts 134 or 332; Journalism 350; Landscape Architecture 313; Poultry 80; Psychology 356; Physical Education 18, 385 or 387; Sociology 427.

MAJOR IN EXPERIMENTAL FOODS

This major offers training for students interested in educational, experimental, and promotional work in commercial fields, such as home service work, commercial food demonstration, or testing laboratories. Students may confer with adviser in the selection of a sequence of electives to meet individual professional interests.

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Home Economics 222	5
Home Economics 306	5
Home Economics 351	5
Home Economics 357	3
Home Economics 368, 369	6
Home Economics 393 or 490	5
Home Economics 446 or 447	5
Home Economics 450	5
Home Economics 452 or 353	5
Home Economics 454	5
Bacteriology 350	5
Education Elective	5
Public Speaking or Journalism	5
Science (See page 25, Total Requirements)	5
Electives	21
	90

Suggested Electives: Art 208, Chemistry 22 or 24, 451, Mathematics 20, Food Technology 221, Geography 355, Journalism 370.

MAJOR IN FAMILY DEVELOPMENT

Preparation for work with young children through public and private nursery schools, child serving agencies, and child clinics is provided in this major. This also provides professional preparation for work with agencies dealing with family adjustment or in positions requiring professional work in family life as a focus. Students interested in research or college teaching in this field will be prepared for advanced study with this major

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Home Economics 222	5
Home Economics 306 or 350	5
Home Economics 351 or 358	5
Home Economics 368, 369	6
Home Economics 393	5
Home Economics 490	5
Home Economics 492	5
Electives in Family Development	20
Home Economics Electives	12
Science (Select from page 25, Total Requirements)	5
Electives	17
	90

In consultation with the adviser, students may select a sequence of courses emphasizing nursery school work, child development, or family life in accordance with individual professional interests.

Suggested Electives in Family Development: Home Economics 491, 493, 494, 496, 311 and 312, 344.

Suggested Electives in Home Economics: Home Economics 325, 376, 377, 470, 455, 480.

MAJOR IN HOME DEMONSTRATION

This major provides for the training of home demonstration agents and home management supervisors in the farmers' home program, and preliminary training for district and state workers. Special field experience is provided under supervision. Courses in agriculture are required.

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Home Economics 222	5
Home Economics 306	5
Home Economics 311-312	10
Home Economics 321	5
Home Economics 344	3
Home Economics 351	5
Home Economics 357	3
Home Economics 368, 369	6
Home Economics 393	5
Home Economics 462	5
Home Economics 490	5
Agriculture electives	20
Science (Select from page 25, Total Requirements)	5
Electives	8
	90

Suggested Electives in Agriculture: Dairy 383; Food Processing 409; Horticulture 1; Poultry Husbandry 60.

Suggested Electives: Speech 50 or Journalism 368; Home Economics 350, 354, 355, 370, 377, 446; Landscape Architecture 313 or Journalism 369.

MAJOR IN HOUSING AND MANAGEMENT

This major provides training for management of multiple unit houses, advisers in Federal housing projects, and assistants to architects who design homes.

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Home Economics 222	5
Home Economics 344	3
Home Economics 350 or 306	5
Home Economics 358 or 351	5
Home Economics 368, 369	6
Home Economics 376	3
Home Economics 377	3
Home Economics 393	5
Home Economics 446, 447, 463 or 475	5
Home Economics 480	5
Home Economics 490	5
Science (Select from page 26, Total Requirements)	5
Electives	35
	90

Required courses for this major should be scheduled before other electives are chosen. Recommended electives are Agricultural Engineering 4, 5; Agricultural Economics 370; Art 111, 290; Geography 355; Journalism 368 or 350; Landscape Architecture 55 and 102; Sociology 315.

MAJOR IN NUTRITION

This major provides a background for various types of nutrition work such as research, teaching, or extension service as a nutrition specialist. It prepares the student for graduate work in nutrition or for a research assistantship in a commercial organization or an educational institution.

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Home Economics 222	5
Home Economics 306	5
Home Economics 351	5
Home Economics 353	5
Home Economics 368, 369	6
Home Economics 393 or 490	5
Home Economics 452	5
Bacteriology 350	5
Chemistry 23	5
Chemistry 451 or Physiology	5
Electives	39
	90

At least fifteen hours of electives to be chosen from the following: Home Economics 359, 450, 453, 455, 457, and 458.

MAJOR IN GENERAL HOME ECONOMICS

The general major is planned to give a broad cultural course and training for homemaking. There are fewer required courses and opportunity exists for many electives. Specialized interests may be followed through careful choice of electives.

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Home Economics 222	5
Home Economics 306 or 350	5
Home Economics 321	5
Home Economics 344	3
Home Economics 351 or 358	5
Home Economics 368, 369	6
Home Economics 393	5
Home Economics 490	5
Food Elective	5
Home Economics elective	5
Science (Select from page 25, Total Requirements)	5
Electives	36
	—
	90

General majors must select at least 15 elective hours in one field beyond requirements. Preparation for the following occupations is possible by electing necessary courses during the junior and senior years of the General Home Economics major.

A. HOME ECONOMICS JOURNALISM: Requires 25 hours of electives chosen from the following courses: Journalism 1, 350 or 368, 358, 455, 369, 357, 370.

B. SCHOOL LUNCH ROOM MANAGEMENT: Requires Home Economics 354, 359, 353 or 455, 374, 372; Education 304; Bacteriology 350.

C. PUBLIC HEALTH NUTRITION WORK: Requires Bacteriology 350, and Human Biology 2; Sociology 200 or 315; Home Economics 357, 376, 455, 457; Journalism 368. Suggested electives: Chemistry 451 and Home Economics 453, 450, 359 and Bacteriology 351 or 402.

D. CONSUMER SERVICE: Requires an approved selection of 20 additional hours in chosen field of Home Economics and at least ten hours from the following courses: Agricultural Economics 470; Business Administration 360, 312; Economics 5x; Sociology 200; Education elective; Journalism 368 or 350.

COURSES OF INSTRUCTION

The University reserves the right to withdraw any course for which the registration is not sufficiently large, and to offer courses not listed should sufficient demand arise and teaching facilities and personnel be available.

Unless otherwise indicated courses meet five hours a week and carry five hours credit.

FRESHMAN AND SOPHOMORE COURSES

1 a-b. HOME ECONOMICS ORIENTATION. 6 hours (3 hours a quarter). *Miss Callaway, Mrs. Wilson, and the Staff.*

A course offered for freshmen in home economics to help them make the best use of their opportunities in college, to guide them in study and vocational choice, and to assist them in planning for and making adjustments to a new way of life.

3. NUTRITION AND FOOD PREPARATION FOR NON-MAJORS. 3 hours. One lecture and two laboratory periods. *Miss Dykes.*

The fundamental principles of nutrition and food preparation.

5. FAMILY MEAL PREPARATION AND SERVING. Two lectures and three two-hour laboratory periods. *Mrs. Moon and staff.*

Introductory course in food preparation based on the planning, preparation, and serving of nutritious and palatable meals for the family.

20. CLOTHING. Two lectures and three double laboratory periods. *Miss Armstrong and Miss Hicks.*

A study of the fundamentals of clothing based on wardrobe planning; selection, including textiles and buymanship as related to simple construction problems; care of clothing, including repair.

43. HOUSEHOLD EQUIPMENT. 3 hours. One lecture and two laboratory periods. Prerequisite: Physics 20. *Miss Anderson and Mrs. Walker.*

Application to home situations of the principles involved in the performance of major types of household equipment used in food preparation, laundering, cleaning, and home lighting.

53. DIET THERAPY FOR NURSES. 2 hours. One lecture and informal laboratory.

A course planned to meet the special needs of nurses.

75. HOME DECORATION AND FURNISHING. Prerequisite: Art 30. *Miss Callaway.*

A study of decorating and furnishing a home to meet the basic needs of family living.

90. FAMILY FUNDAMENTALS. 3 hours. Two lectures and one double laboratory period. *Mr. Sperry, Mrs. Wilson, and the Staff.*

A study of the young family and its early adjustments, particularly with relation to the preparation for and adjustment to children.

COURSES IN MAJOR CONCENTRATION

FOODS AND NUTRITION

304. NUTRITION EDUCATION FOR TEACHERS. Prerequisite: Senior college standing. *Miss Beall and Miss Boyd.*

A study of the diet habits of Georgia school children and the relation of nutrition to health. Emphasis is placed on how all teachers working in their classrooms, in schools and in communities, can enrich school programs and improve the health of school children through nutrition education.

306. FOODS. Two lectures and three double laboratory periods. Prerequisite: Home Economics 5, and Chemistry 346. *Miss Dykes.*

Principles of cookery through analysis of basic recipes; the application of principles in preparation of commonly used foods; evaluation of products. Practical examination required.

350. MEAL PLANNING AND SERVING. Three lectures and two double laboratory periods. Prerequisite: Home Economics 5. *Miss Dykes.*

The planning, preparation, and serving of meals for the family and for special occasions. A unit on canning for the family is included.

351. FOUNDATIONS OF NUTRITION. Two lectures and three double laboratory periods. Prerequisite: Chemistry 346 and Home Economics 306. *Miss Dykes and Miss Newton.* (Home Economics 306 may parallel this course.)

The requirement of different individuals for energy, protein, minerals, and vitamins; food as a source of daily requirements; and the relation of food and the state of nutrition of an individual to physical fitness.

353. NUTRITION. Two lectures and three double laboratory periods. Prerequisite: Home Economics 306, 351, and Chemistry 451. *Miss Newton.*

The chemical and physical changes involved in the digestion and metabolism of foods. Nutritive value of foods; relative costs of foods; family dietary calculations.

354. QUANTITY COOKERY. Two lectures and three double laboratory periods. Prerequisite: Home Economics 306. *Mrs. Alexander.*

A study of cookery methods applicable to the preparation of foods for institutional or quantity service which provides for use of institutional equipment, experience in butcher shop, school lunchroom, and large cafeteria, as well as the planning and serving of meals.

355. CATERING. Informal laboratory, equivalent to two lectures and three double laboratory periods. Prerequisite: Home Economics 350 or 306. *Mrs. Alexander and Mrs. Tuck.*

The planning, preparing, and serving of teas, luncheons, dinners and banquets for various groups at different price levels.

357. **FOOD DEMONSTRATION.** 3 hours. Three double laboratory periods. Prerequisite: Home Economics 306 or 350. *Miss Dykes and staff.*

A continuation of Foods 306. Taught by student demonstrations which illustrate principles of cookery. Major emphasis on demonstration techniques.

358. **FAMILY FEEDING.** Two lectures and three laboratory periods. Prerequisite: Junior standing. *Miss Dykes and Miss Newton.*

A study of nutrition problems in feeding a family. It includes meal planning based on specific needs of various family members. Needs of infants, older children and parents are considered. Open to students outside the School of Home Economics as well as to majors.

450. **INTRODUCTION TO EXPERIMENTAL COOKERY.** Two lectures and three double laboratory periods. Prerequisite: Home Economics 306, 351, or consent of instructor. *Mrs. Hood.*

Experimental methods applied to the problems involved in food preparation. Egg cookery, jellies, fruits and vegetables, cereals and cereal products are given major emphasis.

452. **ADVANCED NUTRITION.** Two lectures and two three-hour laboratory periods. Prerequisite: Home Economics 351 or equivalent. *Miss Mirone.*

A study of some methods of evaluating nutritional status by means of laboratory tests. Some hematology, urinalysis, blood chemistry, food analysis and biological methods with animals are included.

453. **DIET IN DISEASE.** Prerequisite: Home Economics 353 or 452. *Miss Mirone and Miss Newton.*

The modification needed in the normal diet for the treatment of various diseases. Special emphasis is given to the study of digestive diseases, diabetes, diseases of the blood and to general malnutrition.

454. **EXPERIMENTAL COOKERY.** Two lectures and three laboratory periods. Prerequisite: Home Economics 306, 351 and consent of instructor. *Mrs. Hood.*

Application of experimental methods to the cookery of meats, fats, batters and doughs.

455. **NUTRITION IN INFANCY AND CHILDHOOD.** Prerequisite: Home Economics 306 and 351. *Miss Newton.*

Fundamental principles of nutrition during infancy and early childhood. Laboratory work in infant laboratory and nursery school.

456. **METABOLISM AND DIETARY STUDIES.** Two lectures and two three-hour laboratory periods. Prerequisite: Home Economics 353 or 452. *Miss Newton.*

The caloric value of foods by means of an oxy-calorimeter and the basal metabolism of individuals of different ages and under different conditions by the use of a portable respiratory calorimeter.

457. **FIELD WORK IN NUTRITION.** Prerequisite: Home Economics 353 or 351. *Miss Newton.*

Opportunity is given for contacts with various types of nutrition work such as the agricultural extension program and well baby clinics.

458. **READINGS IN NUTRITION.** Prerequisite: Home Economics 353 or 351. *Miss Mirone and Miss Newton.*

Recent developments and the present status of knowledge on selected topics from the field of nutrition. The course is designed especially for those who wish to bring their knowledge up to date.

850. **SEMINAR IN FOODS.** Prerequisite: Home Economics 306 and 450, or equivalent. *Mrs. Hood.*

Survey of current literature on selected topics in foods. Organized to use classic studies as background material for each topic.

854. **SPECIAL TOPICS IN FOODS.** Prerequisite: One graduate course in foods and consent of the instructor. *Mrs. Hood.*

Individual investigation of problems related to foods, such as food habits, historical facts, experimental problems in cookery. Designed to develop initiative in the student in seeking and/or compiling information. Primarily for students taking a minor in foods; open to foods majors also.

857. **INTRODUCTION TO RESEARCH IN FOODS OR NUTRITION.** Prerequisite: Two graduate courses in foods or nutrition. *Mrs. Hood, Miss Mirone, and Miss Newton.*

Individual investigation of selected problems in the major field.

858. **RESEARCH IN NUTRITION.** Prerequisite: Three graduate courses in nutrition, including Home Economics 857. *Miss Mirone and Miss Newton.*

The planning and conducting of an individual research problem under supervision.

CLOTHING AND TEXTILES

222. **ELEMENTARY TEXTILES AND CLOTHING FOR THE FAMILY.** Two lectures and three double laboratory periods. Prerequisite: Home Economics 20. *Miss Armstrong and Miss Hicks.*

Planning the family wardrobe; a study of the problems involved in selecting and caring for clothing for various members of a family; renovation; construction of an infant's or a child's garment.

223. **CLOTHING FOR THE FAMILY.** 3 hours. One lecture and two double laboratory periods. Prerequisite: Home Economics 20 and 222. *Miss Armstrong and Miss Hicks.*

Practical application of textiles study to clothing selection, including problems in the comparison and evaluation of fabrics and ready to wear garments; maintenance and storage of fabrics and garments; renovation; and construction of a child's garment.

224. **TEXTILES.** Two lectures and three double laboratory periods. Prerequisite: Home Economics 222 and Chemistry 21. *Miss Armstrong and Miss Hicks.*

A study of textile fibers, fabric construction and finishes; care of textiles used for clothing and in the home. Identification of fibers through chemical, physical and microscopical testing.

321. **CLOTHING SELECTION AND CONSTRUCTION.** Two lectures and three double laboratory periods. Prerequisite: Home Economics 20, 222, and Art 30. *Miss Armstrong and Mrs. Blair.*

Clothing selection, including a unit on personality; construction in various fabrics with development of accuracy, speed, and independence in execution of problems; seasonal and daily care and storage of garments; understanding of the fashion world and of related economic factors essential to becoming an intelligent consumer.

325. **HOW TO DRESS.** 3 hours. For students who are not majoring in home economics and for home economics majors whose curriculum does not require Home Economics 321. *Miss Armstrong and Mrs. Blair.*

This course is designed to include planning and selecting the wardrobe based on the artistic, psychological, social, and economic problems involved; self analysis of personality, color, and figure types; appropriate dress; grooming; buymanship of ready-to-wear garments, accessories, and fabrics; care, repair, alteration.

360. **SELECTION OF TEXTILES FOR CLOTHING AND HOUSEHOLD USES.** Two lectures and three double laboratory periods. Prerequisite: Home Economics 224 and 321. *Miss Armstrong.*

A course designed to improve the student's ability to select and care for clothing and household textiles. The course will be based on a study of chemical, physical, and microscopical characteristics of fabrics. New trends in fabric manufacture and finishes will be included. This course will familiarize the student with textile testing equipment and prepare them for graduate work in this field.

363. **COSTUME DESIGN.** Two lectures and three double laboratory periods. Prerequisite: Home Economics 321. May be elected by students majoring in fields other than home economics with approval of the instructor. *Mrs. Blair.*

Application of art principles and techniques to designing for different personalities, figures and ages, for various occasions; corrective dress; historic and current influences; development of creative ability.

461. **TEXTILE AND CLOTHING ECONOMICS.** Prerequisite: Home Economics 321, Economics 5x, and one other approved senior division course in clothing. *Mrs. Blair and Miss Hicks.*

Consumer buymanship of clothing and household textiles; commodity studies with comparison and evaluation toward standardization; study of authentic resources; educational and promotional work; new fibers and fabrics in light of recent discoveries and inventions; trips to manufacturing plants, department stores, laundries and dry cleaners.

462. **TAILORING.** Two lectures and three double laboratory periods. Prerequisite: Home Economics 321 and 363, or one other approved senior division course. *Miss Armstrong, Mrs. Blair, and Miss Hicks.*

Tailoring and other expert techniques in construction; selection of ready to wear tailored garments; care and storage of woolen garments.

463. **HISTORIC COSTUME.** Prerequisite: Home Economics 321, and one other approved senior division course. *Mrs. Blair.*

A study of ancient Egyptian, Grecian, Roman, early and modern European, and early American costume; trade and other influences on dress; historic influences on modern dress.

464. PATTERN DESIGN AND DRAPING. Two lectures and three double laboratory periods. Prerequisite: Home Economics 321 and 363, or one other approved senior division course in clothing. *Mrs. Blair*.

Application of principles of costume design to clothing problems with emphasis on independent selection and artistic effects in color, line, and texture; making and using a master pattern; draping.

865. CLOTHING PROBLEMS. Prerequisite: Home Economics 321 and one other approved senior division course. *Miss Armstrong and Mrs. Blair*.

Trends in clothing and responsible factors; advanced work on clothing problems not dealt with in other courses; individual problems based on the needs of students according to whatever phase of clothing work they are planning to enter or are already in. Course is planned primarily for in-service training but may be elected by regular students to supplement other clothing courses.

PLANNING AND MANAGEMENT

311-312. FIELD WORK IN HOME ECONOMICS. 10 hours. Prerequisite: Completion of at least two quarters of senior college work and consent of the instructor. *The Staff*.

Field work under the supervision of an instructor and a cooperating agency such as nursery school, extension service or business concerns. Opportunity to be given a limited number of students selected and approved by the instructor and the cooperating agency.

343. CARE OF THE HOUSE. Two lectures and three double laboratory periods. *Miss Anderson and Mrs. Walker*.

Designed to guide students in the use and evaluation of household equipment used in care of the house.

359. SCHOOL LUNCHROOM MANAGEMENT. Prerequisite: Home Economics 306 and 351. *Miss Dykes*.

A study of the management of school lunchrooms, including menu planning, food purchasing, preparation and service of food, record keeping, personnel management and equipment needed for different types of lunchrooms. Emphasis is given to the relation of the lunchroom to the total school program as a laboratory for nutrition teaching.

368. HOME MANAGEMENT. 3 hours. Three lectures. Prerequisite: Home Economics 43, or equivalent, 306, 351. *Mrs. Moon*.

A study of the managerial problems of the home and principles underlying their solution.

369. HOME MANAGEMENT RESIDENCE. 3 hours. Informal laboratory consisting of full quarter's residence in a home management house. Must accompany Home Economics 368 in all cases where the curriculum requires residence. *Mrs. Moon and the Staff*.

370. FOOD SELECTION AND BUYING. 3 hours. *Mrs. Moon and Mrs. Tuck*.

A study of sources, comparative values, and storage of foods for home use.

372. INSTITUTION MANAGEMENT. Prerequisite: Home Economics 43 or 343. *Mrs. Alexander*.

A study of the problems involved in the management and organization of public and private institutions as hospitals, school food departments, and commercial units; selection of materials and equipment; planning and placing equipment in food units.

373. TEAROOM MANAGEMENT. Two lecture and three laboratory periods. Prerequisite: Home Economics 306 or 350. *Mrs. Tuck*.

Organization and management of a tearoom including catering for groups.

374. INSTITUTION FOOD PURCHASING. *Mrs. Alexander and Miss Dykes*.

A study of the market organization, distribution, sources, storage, grades and value of food products. Trips to local markets to study methods of handling and distribution.

376. HOUSING. 3 hours. Prerequisite: Home Economics 75 or consent of the instructor. *Mrs. Walker*.

Present-day housing needs from the standpoint of health, safety, environment, finance, ownership; types of dwellings; minimum standards.

377. PRACTICAL HOME FURNISHINGS. 3 hours. Prerequisite: Home Economics 75. *Miss Callaway*.

A course dealing with the refurbishing of furniture and furnishings for the home. The content deals with woods and wood finishes used for furniture; upholstery techniques; making curtains, draperies, slipcovers.

446. HOUSEHOLD EQUIPMENT TESTING. Prerequisite: Physics 20 and Home Economics 43 or equivalent. *Mrs. Hood* and *Mrs. Walker*.

The operation, care and arrangement of equipment; the measurement and testing of factors governing the efficiency of different types of equipment.

447. HOME LIGHTING AND REFRIGERATION. Prerequisite: Physics 20 and Home Economics 43. *Mrs. Hood* and *Mrs. Walker*.

Application to home situations of recent developments in lighting and in refrigeration.

470. CONSUMER PROBLEMS. Prerequisite: Home Economics 368-369. *Mrs. Moon*.

Problems of the household buyer; intelligent selection of goods on modern market; standards of labeling as safeguards in buying; family income and problems of distribution.

472. ADVANCED INSTITUTION MANAGEMENT PRACTICE. One conference and four laboratory periods. Prerequisite: Home Economics 372, 354, and 374. *Mrs. Alexander*.

Study of management and of cost control in the college cafeterias. Practice in management of the dining hall. Hours for conference and laboratory work to be arranged.

475. HOME DECORATING AND FURNISHING. Three lectures and two double laboratory periods. Prerequisite: Home Economics 75, 376, 480 or equivalent; Art 111; or consent of instructor. *Miss Callaway*.

A study of decoration and furnishings in the past and present with an application to contemporary living.

480. HOUSING DEVELOPMENTS. Prerequisite: Home Economics 75, 368-369 and a senior division course in social sciences or consent of the instructor. *Mrs. Walker*.

Development of modern housing as related to family welfare; to health, safety, delinquency, social progress. A survey of housing problems; development of legislation; policies and programs; social and economic trends in Europe and the United States.

FAMILY LIFE

344. HOME NURSING. 3 hours. Two lectures and one laboratory period. Prerequisite: Bacteriology 350. *Miss Callaway* and *Miss Dykes*.

The principles and techniques of home care of the sick.

393. FAMILY RELATIONS. *Mrs. Moon*, *Mr. Sperry*, and *Mrs. Wilson*.

Personal, social, and economic problems of the modern family; survivals of various characteristics influencing family life; development of the personality within the family environment and the relationships of the individual within his family group as well as those which extend into his broadened social relationships.

397. CREATIVE MATERIALS AND ACTIVITIES IN THE HOME. Prerequisite: Art 30, and Home Economics 90 or equivalent. *Miss LaBoon*.

Functions of creative materials and activities in the home in developing a closer family unity; types of creative activities such as hobbies and other interests which can be carried on in the average home with minimum of special materials, equipment, and expenditure; utilization of common materials in these activities.

*490. DEVELOPMENT OF THE YOUNG CHILD. Three lectures and four periods of supervised observation in the Nursery School. Prerequisite: Psychology 1 or a satisfactory substitute. *Miss Young* and *the Nursery School Staff*.

The physical, mental, emotional, and social development of the pre-school child; the environmental factors influencing the development of the young child and special reference to techniques and guidance. Planned to meet the requirements for teachers of home economics in high schools; desirable also for teachers of elementary grades.

491. CREATIVE ACTIVITIES FOR THE PRE-SCHOOL CHILD. Prerequisite: Psychology 1, Home Economics 490 and one additional related senior division course. *Miss Dooley*, *Miss McPhaul*, and *the Nursery School Staff*.

The course covers selected types of creative activities for children of the pre-school years, including appropriate literature, art, music, nature study and other materials for young children. Through first hand experiences with these materials, students have opportunity to develop skill in presenting and an appreciation for creative activities of very young children.

*490 may also be taken in the Psychology Department.

492. GROWTH AND GUIDANCE OF CHILDREN. Three lectures and four periods of supervised observation in the Nursery School. Prerequisite: Work in child development, child psychology, or closely related courses. *Miss Jones, Mr. Sperry, and Miss Young.*

An advanced course designed to give students a greater insight into the guidance of young children as based upon a knowledge of their maturation in the pre-school years. The work will be of particular value to high school teachers of home economics in preparing them to teach and supervise units which involve child guidance and child care. It will also be helpful to teachers of the elementary grades and to homemakers.

493. ECONOMIC AND SOCIAL PROBLEMS OF THE FAMILY. Prerequisite: Consent of the instructor. *Mr. Sperry and the Staff.*

The modern family; home life in changing social and economic order; special legislation affecting the family; relation of the members of the family to each other and to the community.

494. NURSERY SCHOOL LABORATORY PROBLEMS. Three lectures and supervised practice in the Nursery School. Prerequisite: Home Economics 490 or Psychology 490 and one additional senior college course. *Miss Dooley, Miss Jones, and Miss McPaul.*

An advanced course designed to give through instruction, observation, and practice, the basic principles in the problems of group management of children from two years through five years; guidance in selection of equipment and play materials will be included. Actual administration and organization of a nursery school will be discussed.

495. CONTEMPORARY FAMILY LIFE. Prerequisite: Psychology 1, Home Economics 490 and one additional senior college course or consent of the instructor. *Mr. Sperry and Mrs. Wilson.*

A study of the interpersonal relationships of family members, the forces impinging upon them today, and the changes that result in home and family living.

496. PARENT EDUCATION. Prerequisite: Home Economics 393 and 490 or equivalent. *Mr. Sperry and Mrs. Wilson.*

A course designed to develop a working philosophy for parent education and to augment skills in procedure and techniques both in regard to working with parents, groups, and in conference with individual parents. Opportunity will be given the student to observe and participate in the work of parent groups.

890. RESEARCH IN FAMILY OR CHILD DEVELOPMENT. Prerequisite: Home Economics 490 and one additional approved senior division course and statistics as indicated. *Mr. Sperry, Mrs. Wilson, or Miss Young.*

The planning and conducting of an individual research problem under supervision.

892. BEHAVIOR PROBLEMS IN CHILDREN. Prerequisite: Home Economics 490. *Mr. Sperry or Miss Young.*

The child's adjustment to his environment with a consideration of the cause, treatment, and prevention of behavior problems. Research problems in the field will be carried out by the students.

THE SCHOOL OF VETERINARY MEDICINE

THE FACULTY

THOMAS JOHN JONES, B.S.A., D.V.M., M.S., Ph.D., *Dean.*

SEA WILLOW NICHOLS, *Secretary to the Dean.*

FRANCES COX, *Bookkeeper.*

DOUGLAS RITCHIE BURLEY, V.S., D.V.M., *Associate Professor of Veterinary Medicine and Surgery.*

WALTER GRANGER COOK, D.V.M., *Assistant Professor of Veterinary Anatomy and Histology.*

DONALD ELMER COOPERRIDER, D.V.M., M.S., *Associate Professor of Veterinary Parasitology.*

LAWRENCE TARVER CRIMMINS, D.V.M., *Assistant Professor of Veterinary Pathology and Parasitology.*

CALVIN MARION DAVIS, D.V.M., *Assistant Professor of Veterinary Medicine and Surgery.*

CARLTON CASE ELLIS, B.S., M.S., D.V.M., Ph.D., *Professor of Poultry Diseases.*

JOHN WALLACE FOSTER, B.S., M.S., Ph.D., *Assistant Professor of Veterinary Hygiene.*

MARTIN PATTERSON HINES, D.V.M., M.P.H., *Assistant Professor of Veterinary Hygiene.*

WILLIAM FRANKLIN JACKSON, D.V.M., M.S., *Associate Professor of Pathology.*

THOMAS JOHN JONES, B.S.A., D.V.M., M.S., Ph.D., *Professor of Veterinary Medicine and Surgery and Dean of the School of Veterinary Medicine.*

ABE B. KAMINE, Ph.G., D.V.M., *Associate Professor of Veterinary Physiology and Pharmacology.*

ALBERT LOUIS KLECKNER, B.S., M.S., Ph.D., *Professor of Veterinary Hygiene, Head of Department of Veterinary Hygiene, and Director of Veterinary Research.*

WALTER KORNFELD, B.S.A., M.S., *Assistant Professor of Veterinary Physiology and Pharmacology.*

WESLEY AUGUSTUS MACKENZIE, D.V.M., *Assistant Professor of Veterinary Medicine and Surgery.*

JOHN TOM MERCER, B.S., D.V.M., *Assistant Professor of Veterinary Medicine and Surgery.*

WALTER FLOYD MCLENDON, D.V.M., *Professor of Veterinary Medicine and Surgery and Head of the Department of Veterinary Medicine and Surgery.*

THOMAS HAMILTON MILNER, JR., LL.B., *Lecturer in Veterinary Jurisprudence.*

JACK ROLES PALMER, D.V.M., *Assistant Professor of Veterinary Medicine and Surgery.*

PAUL LAVERNE PIERCY, D.V.M., *Professor of Veterinary Physiology and Pharmacology and Head of the Department of Veterinary Physiology and Pharmacology.*

JAMES RUSSELL SAUNDERS, D.V.M., *Professor of Veterinary Medicine and Surgery.*

EDWARD DONALD STODDARD, D.V.M., *Associate Professor of Veterinary Anatomy.*

EZEKIAL FRED THOMAS, D.V.M., *Professor of Veterinary Medicine and Surgery.*

CLIFFORD WESTERFIELD, B.S., M.S.A., D.V.M., *Professor of Veterinary Anatomy and Histology and Head of the Department of Veterinary Anatomy and Histology.*

ASSOCIATE FACULTY

FREDERICK WILLIAM BENNETT, B.S.A., M.S., Ph.D., *Associate Professor of Dairy.*

WILBUR HOWARD DUNCAN, A.B., M.S., Ph.D., *Associate Professor of Botany.*

IRWIN ALLEN DYER, B.S.A., M.S.A., Ph.D., *Assistant Professor of Animal Husbandry.*

TILL MONROE HUSTON, B.S.A., M.S., *Assistant Professor of Poultry Husbandry.*

JOHN HENRY THOMASON, B.S.A., M.S.A., *Assistant Professor of Animal Husbandry.*

OMER CLYDE ADERHOLD, B.S.A., M.S., Ph.D., *President of the University.*

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Dean of Faculties.*

JOSEPH THOMAS ASKEW, Ph.B., M.A., LL.D., *Dean of Student Affairs.*

WALTER NEWMAN DANNER, JR., B.S.A.E., M.S.A., *Registrar and Director of Admissions.*

JOHN DIXON BOLTON, C.P.A., *Comptroller and Treasurer.*

SPECIAL LECTURERS

EDWARD E. CHAMBERS, Rossville, Georgia, D.V.M.
 GORDON L. FOY, Thomaston, Georgia, D.V.M.
 W. S. HIRLEMAN, Waynesboro, Georgia, D.V.M.
 HAROLD B. HODGSON, Athens, Georgia, D.V.M.
 J. LEE HOPPING, SR., Atlanta, Georgia, D.V.M.
 JULIUS E. SEVERIN, Atlanta, Georgia, D.V.M.
 WILLIAM L. SIPPLE, Tifton, Georgia, D.V.M., M.S.
 LELAND E. STARR, Atlanta, Georgia, D.V.M., Ph.D.
 RAYMOND F. THOMAS, Atlanta, Georgia, D.V.M.
 W. M. COFFEE, LaCenter, Kentucky, D.V.M.

TECHNICAL ASSISTANTS

JOHN THOMAS BELL, JR.	J. C. FRAZIER, B.S.A.
WILLIAM C. CALDWELL	ROBERT M. KUHN
ELDRED WAYNE CAUSEY	ELEANOR B. LOUDENSLAGER, B.S.
JAMES S. ELLIS, B.S.	JACK T. TUMLIN, B.S.A., M.S.

ADVISORY COMMITTEE OF GEORGIA
 VETERINARY MEDICAL ASSOCIATION MEMBERS

DR. EDWARD E. CHAMBERS.....	Rossville, Georgia
DR. TIM BRICE CLOWE.....	State Capitol, Atlanta, Georgia
DR. GORDON L. FOY.....	Thomaston, Georgia
DR. J. T. RIDLEY.....	Marietta, Georgia
DR. LEWIS C. ROSSMAN.....	Albany, Georgia
DR. SHIRLEY SHEPARD.....	Moultrie, Georgia
DR. JULIUS E. SEVERIN.....	Atlanta, Georgia
DR. RAYMOND F. THOMAS.....	Atlanta, Georgia

HISTORY

The University of Georgia first offered a degree course in veterinary medicine in September 1918, and graduated the first class in 1922. This course was abolished in June 1933, and no work in the field was offered until the present school was established in August 1946. Since becoming established, the school has shown magnificent and favorable development, being officially recognized by the Education Council of the American Veterinary Medical Association as an accredited institution in May, 1950. The first class was graduated in June, 1950.

At the present the physical accommodations for the school are divided between temporary quarters and the uncompleted new building, which currently houses the Administrative Offices of the School of Veterinary Medicine and serves as academic quarters for gross anatomy and the Department of Medicine and Surgery.

The new building is of modern design in every way and when completed will be of ample size to house all functions of the veterinary school, as well as provide space for considerable research.

POLICIES

In November 1948 at the Southern Governors' meeting in Savannah, Georgia, there was ratified a compact for regional education in veterinary medicine. The states of Maryland, Virginia, and North Carolina were assigned by the Regional Council on Education to the University of Georgia, School of Veterinary Medicine. Approximately ten students who meet the qualifications will be accepted from each of the above states each year, while twenty qualified students will be accepted from the state of Georgia. This will give a class of fifty each year, making a total for the school of two hundred students.

In order to gain admission to the School of Veterinary Medicine applicants from the above named three states will apply as follows: Application blanks must be secured from the committee on veterinary student selection at the Land Grant College for each state. They are as follows: Maryland, Dr. John M. Coffin, University of Maryland, College Park, Maryland; North Carolina, Dean C. H. Bostian, College of Agriculture, Raleigh, North Carolina; Virginia, Dr. Paul Farrier, Registrar, Virginia Polytechnic Institute, Blacksburg, Virginia; Georgia, Mr. Walter Danner, Registrar, University of Georgia, Athens, Georgia.

All applicants are required to complete the pre-veterinary requirements by the end of the spring quarter or semester preceeding the fall that they wish to enter the School of Veterinary Medicine.

Outstanding students meeting all requirements except one or two courses may be given tentative acceptance but they must meet all requirements by the end of the summer session of that year.

OPPORTUNITIES FOR VETERINARIANS

For the past several years there has been an increase in the demand for skilled veterinarians. There are numerous fields of service, all of which are expanding, open to graduates of approved schools of veterinary medicine. At present a well qualified veterinarian may enter any one of the following fields of endeavor:

PRIVATE PRACTICE. Although the vast majority of veterinarians in the United States are in private practice, there are still many desirable locations for veterinarians who wish to practice the profession. The renewed interest in fur animal farming affords opportunities for diagnosis and control of fur-bearing animal diseases.

GOVERNMENT SERVICE. The U. S. Bureau of Animal Industry is the largest single employer of veterinarians in this country. There are many desirable positions under the protection of Civil Service in the B. A. I., Federal meat inspection, quarantine, control and eradication of animal diseases, research in diseases of animals, and Veterinary Public Health Section of the U. S. Public Health Service.

VETERINARY CORPS OF THE U. S. ARMY. Veterinary officers in the U. S. Army are commissioned with the rank of first lieutenant up to and including colonel.

STATE VETERINARIANS. Most states have state veterinarians whose official duty is the regulation and control of preventable diseases in the state, with a corp of veterinarians under their supervision. County veterinarians have a similar work in a more restricted area.

MUNICIPAL VETERINARIANS. Many cities employ veterinarians to inspect abattoirs and butcher shops, and meat and dairy products and to serve on municipal boards of health.

TEACHERS IN AGRICULTURAL AND VETERINARY COLLEGES. There is always a demand for well-trained men in these positions and they command good salaries.

RESEARCH AND INVESTIGATION IN ANIMAL DISEASES. At the state agricultural experiment stations veterinarians are employed who are fitted for original research in the broad field of animal disease.

COMMERCIAL WORK. Veterinarians are employed by large commercial firms in the preparation of biological products (tuberculin, serums, vaccines, antitoxins, etc.) for use in both human and veterinary medicine.

STOCK FARM MANAGERS. A number of veterinarians are serving as managers on stock farms ,particularly in breeding districts.

VETERINARIANS FOR ZOOS. As a result of the increased interest in wild animals, many zoological societies employ full time veterinarians to look after the health and sanitary conditions of their animals.

ARTIFICIAL BREEDING SOCIETIES. One of the newest places of employment for veterinarians is the program of artificial insemination, where they direct the work and assume responsibility for the health of the animals involved.

POULTRY INDUSTRY. The ever-increasing economic importance of the poultry industry in this nation demands the services of the veterinary profession. Those services are concerned with a wide field of research study as well as the diagnosis and control of poultry diseases in general veterinary practice.

ADMISSION REQUIREMENTS FOR PROFESSIONAL COURSE OF STUDY

In order to matriculate in the School of Veterinary Medicine in 1951, a student must present a minimum of 90 credits from an acceptable college with grades of C or better. At the present time due to the fact that there are an exceedingly large number of applicants seeking admission, those having the highest scholastic rating will be given preference.

If one of the two following courses of study is followed during the pre-veterinary years a minimum of time will be lost by those students who are not admitted. It is necessary, however, that the student decide at the time of registration whether he would prefer to continue his education in the College of Agriculture or in the College of Arts and Sciences in the event that his education must be continued in a field other than veterinary medicine.

The following subjects are acceptable for admission to the School of Veterinary Medicine and most of them are acceptable for credit toward a degree in the Department of Animal Husbandry of the College of Agriculture, University of Georgia.

English 2 x-y Chemistry 21-22 Mathematics 101x or 101y Botany 21-22 Animal Husbandry 1 Poultry Husbandry 60 Mil. (Air) Sc. & Tactics 1(5) a-b-c Electives: Agricultural Economics 4 Agronomy 1 and 10 Horticulture 1	English 6 Physics 20 Dairy 3 Zoology 25-26 Political Science 1 Organic Chemistry 346 and 347h Mil. (Air) Sc. & Tactics 2(6) a-b-c (Chemistry 347h will be required for admission in September 1951.)
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The following subjects are recommended for pre-veterinary training. The majority are acceptable for credit toward a degree in the College of Arts and Sciences, University of Georgia.

English 2 x-y Mathematics 101x-y Political Science 1 Chemistry 21-22 Botany 21-22 Physical Education 1 (for men) or Physical Education 1 (for women) Mil. (Air) Sc. & Tactics 1(5) a-b-c	Physics 20 English 6 Chemistry 340 a-b Dairy 3 Zoology 25-26 Animal Husbandry 1 Poultry Husbandry 60 Electives 5 hours Physical Education 2 (for men) or Physical Education 2 (for women) Mil. (Air) Sc. & Tactics 2(6) a-b-c
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All candidates for admission into the entering class in September each year will be required to take during the preceding May or June a veterinary medical aptitude test. The results of this test will become a part of the student's credentials for admittance into the School of Veterinary Medicine.

Applicants for admission to the School of Veterinary Medicine, University of Georgia, who are known to have been dismissed from another veterinary school for any reason, shall not be accepted. Any student who shall gain entrance to the School of Veterinary Medicine by misrepresentation of the facts shall be immediately dismissed.

ACADEMIC REGULATIONS

In addition to regulations governing the grading system of the University (see Academic Regulations—General Catalogue), students enrolled in the School of Veterinary Medicine are subject to a proficiency evaluation established by the faculty of the school.

A student is subject to dismissal from the School of Veterinary Medicine if he is placed on probation more than two successive quarters, or more than three times during the professional course of study.

FOUR YEAR PROFESSIONAL CURRICULUM

FIRST YEAR

FALL QUARTER			WINTER QUARTER			SPRING QUARTER					
	Lec	Lab Cr		Lec	Lab Cr		Lec	Lab Cr			
101a Vet. Anat. & Histology	2	12	6	101b Vet. Anat. & Histology	2	12	6	101c Vet. Anat. & Histology	2	12	6
111a Vet. Anat. & Histology	2	4	4	111b Vet. Anat. & Histology	2	4	4	111c Vet. Anat. & Histology	2	4	4
180a Vet. Physiol. & Pharmacology	3	3	4	167b Applied Vet. Genetics	3	0	3	185c Vet. Physiol. & Pharmacology	3	8	5
373 An. Husb.	5	0	5	185b Vet. Physiol. & Pharmacology	3	0	3	190c Poisonous Plants	0	4	2
	12	19	19		10	18	16		7	28	17

SECOND YEAR

FALL QUARTER			WINTER QUARTER			SPRING QUARTER					
	Lec	Lab Cr		Lec	Lab Cr		Lec	Lab Cr			
220a Vet. Hyg.	4	6	6	220b Vet. Hyg.	4	6	6	220c Vet. Hyg.	4	6	6
261a Vet. Path. & Parasitology	3	4	4	262b Vet. Path. & Parasitology	3	4	4	230c Dairy Tech.	1	4	3
274a Vet. Path. & Parasitology	2	2	3	274b Vet. Path. & Parasitology	3	4	4	262c Vet. Path. & Parasitology	3	4	4
285a Vet. Physiol. & Pharmacology	3	6	5	290b Vet. Physiol. & Pharmacology	3	3	4	275c Vet. Path. & Parasitology	3	4	4
290a Vet. Physiol. & Pharmacology	3	0	3					290c Vet. Physiol. & Pharmacology	3	3	4
	15	18	21		13	17	18		14	21	21

THIRD YEAR

FALL QUARTER			WINTER QUARTER			SPRING QUARTER					
	Lec	Lab Cr		Lec	Lab Cr		Lec	Lab Cr			
340a Vet. Med. & Surgery	5	0	5	340b Vet. Med. & Surgery	5	0	5	300c Vet. Anat. & Histology	0	3	1
348a Vet. Med. & Surgery	3	0	3	348b Vet. Med. & Surgery	3	0	3	340c Vet. Med. & Surgery	5	0	5
345a Vet. Med. & Surgery	5	0	5	345b Vet. Med. & Surgery	5	0	5	348c Vet. Med. & Surgery	3	0	3
363a Vet. Path. & Parasitology	3	3	4	364b Vet. Path. & Parasitology	5	0	5	345c Vet. Med. & Surgery	5	0	5
190 Poisonous Plants	0	4	2	349b Vet. Med. & Surgery	3	0	3	347c Vet. Med. & Surgery	2	0	2
341a Vet. Med. & Surgery	Required			342b Vet. Med. & Surgery	Required			391c Vet. Physiol. & Pharmacology	3	0	3
	16	7	19		21	0	21	342c Vet. Med. & Surgery	Required		
									18	3	19

SUMMER QUARTER

357d CLINIC PRECEPTORSHIP — Required — 13 hours credit.

FOURTH YEAR

FALL QUARTER			WINTER QUARTER			SPRING QUARTER					
	Lec	Lab Cr		Lec	Lab Cr		Lec	Lab Cr			
435a Vet. Hyg.	5	0	5	239c Dairy Tech.	1	4	3	402 An. Husb.	5	0	5
436a Vet. Hyg.	5	0	5	435b Vet. Hyg.	5	0	5	436c Vet. Hyg.	5	4	6
440a Vet. Med. & Surgery	5	0	5	451b Vet. Med. & Surgery	2	0	2	449c Vet. Med. & Surgery	2	0	2
442a Vet. Med. & Surgery	Required			442b Vet. Med. & Surgery	Required			442c Vet. Med. & Surgery	Required		
445a Vet. Med. & Surgery	1	2	2	445b Vet. Med. & Surgery	1	2	2	445c Vet. Med. & Surgery	1	2	2
	16	2	17		9	6	12		13	6	15

REQUIREMENTS FOR THE DEGREE—DOCTOR OF VETERINARY MEDICINE

Upon completion of the four year professional curriculum, including a satisfactory point average, and evidence of satisfactory performance in the required clinical courses, the student will be recommended by the Dean, through the Faculty, of the School of Veterinary Medicine for the degree of Doctor of Veterinary Medicine (D.V.M.).

DEPARTMENTS OF INSTRUCTION VETERINARY ANATOMY AND HISTOLOGY

(Hardman Hall, South Campus)

Head: Westerfield. Staff: Stoddard, Cook.

101 a-b. ANATOMY OF THE HORSE. 12 hours. Two recitations and twelve hours of laboratory per week, fall and winter quarters. First year. *Mr. Jook and Mr. Stoddard.*

Topographic and systematic anatomy of the horse.

102c. COMPARATIVE ANATOMY OF THE DOMESTIC ANIMALS. 6 hours. Two recitations and twelve hours of laboratory per week, spring quarter. First Year. *Mr. Cook and Mr. Stoddard.*

Complete dissection and study of the ox, sheep, dog, pig, cat, and fowl and their comparison with the horse in both topographic and systematic relations.

111a-b-c. HISTOLOGY AND EMBRYOLOGY OF THE DOMESTIC ANIMALS. 12 hours. Two recitations and four hours of laboratory per week, fall, winter, and spring quarters. First year. *Mr. Cook and Mr. Westerfield.*

The development of the vertebrate from the origin of the germ cells through fertilization, cleavage, germ layers, and organogenesis, with special attention to fetal membranes, placenta, and teratology; and the microscopic structure of the various tissues and organs of the animal body; all of which is correlated with gross anatomy.

300c. APPLIED VETERINARY ANATOMY. 1 hour. Three hours of laboratory per week, spring quarter. Third year. *Mr. Cook and Mr. Stoddard.*

A special study of anatomy as related to diagnosis and surgery.

400. ANATOMICAL TECHNIQUE. 2 to 5 hours. Three hours of laboratory for each credit hour. Prerequisites: Veterinary Anatomy 101b and 111c or their equivalent. Offered on demand. *Mr. Stoddard and Mr. Westerfield.*

Instruction in the technique of preparation of animals for dissection as well as methods of preparation of material for microscopic study.

VETERINARY HYGIENE

(Veterinary Laboratory Building, South Campus)

Head: Kleckner. Staff: Hines, Foster

220a. GENERAL MICROBIOLOGY. 6 hours. Four lectures and six hours of laboratory per week, fall quarter. Breakage fee, \$5.00. Second year. *Mr. Foster.*

Surveys the scope, general morphology and universal distribution of bacteria, yeasts, molds, viruses and rickettsia; growth, reproduction, influence of environment, nutrition, metabolism and biochemical changes produced by microorganisms and the basic principals and characteristics of filterable infectious agents.

221b-c. PATHOGENIC MICROBIOLOGY, IMMUNOLOGY AND VIROLOGY. 12 hours. Four lectures and six hours of laboratory per week, winter and spring quarters. Breakage fee, \$5.00 each quarter. Second year. *Mr. Foster, Mr. Hines and Mr. Kleckner.*

The morphological, cultural and physiological characteristics of pathogenic microorganisms, together with the mechanisms of infection and immunity.

Instruction also on the special characteristics of virus diseases and host resistance, supplemented by laboratory studies and demonstrations on virus infections of domestic animals and poultry.

Although emphasis is placed upon the relation of disease producing bacteria and viruses to health and disease of domestic animals and poultry, consideration is given to diseases of animals transmissible to man.

NOTE: The above courses are open to a limited number of students enrolled in other schools or colleges of the University, subject to approval of the Head of the Department and upon presentation of evidence of satisfactory prerequisite training.

435a-b. INFECTIOUS DISEASES OF DOMESTIC ANIMALS. 10 hours. Five lectures or recitations per week, fall and winter quarters. Fourth year. *Mr. Kleckner.*

A study of the infectious and communicable diseases of domestic animals including regulatory measures governing their prevention and control; embracing the history, etiology, transmission, symptoms, lesions, diagnosis and treatment of each disease.

436a-c. FOOD HYGIENE AND PUBLIC HEALTH. 11 hours. Five lectures or recitations per week, fall and spring quarters and four hours laboratory per week, spring quarter. (Fall and spring quarters 1950-51 and 1951-52 only). *Mr. Hines.*

A survey of municipal, state, and federal regulatory measures governing transportation, slaughter, merchandising, and disposal of meat, meat food products, poultry, and dairy products. The sanitary, epidemiological, and regulatory aspects of public health programs, particularly as human health is affected by diseases of animals transmissible to man.

437a-b. FOOD HYGIENE. 8 hours. Three lectures or recitations per week in fall quarter and four lectures or recitations and four hours of laboratory per week in winter quarter. Beginning fall quarter 1952. Fourth year. *Mr. Hines.*

A survey of the municipal, state, and federal regulatory measures governing transportation, slaughter, merchandising and disposal of meat, meat food products and poultry; the application of dairy hygiene and public health measures to the production, processing and distribution of clean, safe milk and dairy products.

438c. PUBLIC HEALTH. 3 hours. Three lectures or recitations per week, spring quarter. Beginning spring 1953. Fourth year. *Mr. Hines.*

A survey of the sanitary, epidemiological and regulatory aspects of public health programs, particularly as human health is affected by diseases of animals transmissible to man; the veterinarian's role in local, state and federal public health organizations.

200. VETERINARY HYGIENE. 5 hours. Five lectures or recitations per week, fall, winter and spring quarters. Offered to students in the College of Agriculture. *Mr. Jackson.*

A survey course dealing with the common diseases of livestock in Georgia, with emphasis on prevention and control through better management and sanitation on the farm.

VETERINARY MEDICINE AND SURGERY

(School of Veterinary Medicine, South Campus)

Head: W. F. McLendon. Staff: Jones, Thomas, Saunders, Burley, Mackenzie, Mercer, Palmer, Davis, Milner.

340a-b-c, 440a. LARGE ANIMAL MEDICINE. 20 hours. Five lectures per week each quarter third year and fall quarter fourth year. *Mr. Burley.*

A study of noninfectious diseases, obstetrics, genital diseases, dentistry, and lameness of farm animals.

341a. CLINICAL ORIENTATION. Not less than six hours per week, fall quarter. Third year. *The Staff.*

Demonstration and practice in the techniques of clinical examination, restraint and the administration of medication to all animals.

345a-b-c. VETERINARY SURGERY. 15 hours. Five lectures per week, fall, winter and spring quarters. Third year. *Mr. Saunders.*

A survey of general surgical pathology, therapeutics, wound infection, asepsis, antiseptics, anesthesia and the fundamentals of operative technique. Emphasis during the latter two quarters is placed on regional surgery of both large and small animals.

347c. RADIOLOGY. 2 hours. Two lectures per week, spring quarter. Third year. *Mr. Mackenzie.*

Lectures on radiology, dark room technique, and x-ray and fluoroscopic techniques. Radiologic aspects of diseases and injuries of the various parts of animals and an introduction to the therapeutic use of x-ray.

348a-b-c. SMALL ANIMAL MEDICINE. 9 hours. Three lectures per week, fall, winter and spring quarters. Third year. *Mr. Mackenzie.*

A study of the diagnosis, pathology, and therapeutics of the infectious and non-infectious diseases of small domestic animals.

349b. DEFICIENCY DISEASES OF LIVESTOCK. 3 hours. Three lectures per week, winter quarter. Third year. *Mr. Jones.*

A study of diseases of nutritional origin in large and small animals with special emphasis on deficiency due to low mineral and vitamin content of naturally occurring feeds.

445a-b-c. VETERINARY OPERATIVE SURGERY. 6 hours. One conference and five hours of laboratory per week for three weeks, fall, winter and spring quarters. Fourth year. *Mr. Palmer* and *Mr. Saunders.*

Surgical exercises cover instruction, demonstration and practice on preoperative preparation, operating technique on animals under suitable anesthesia, and post-operative care of both large and small animals.

451b. ETHICS AND BUSINESS. 2 hours. Two lectures per week, winter quarter. Fourth year. *Mr. Mackenzie.*

A study of the business aspects of veterinary practice and ethical obligations of the veterinarian.

449c. JURISPRUDENCE. 2 hours. Two lectures per week, spring quarter. Fourth year. *Mr. Milner.*

A study of the laws and regulations governing veterinary medicine, including contracts, leases, liabilities, stockyard and transportation laws.

THE VETERINARY CLINICS

Clinical instruction is given by the staff of the Department of Veterinary Medicine and Surgery and the Department of Veterinary Pathology and Parasitology. A large animal clinic and hospital with ambulatory farm service, small animal clinic and hospital, necropsy laboratory, clinical diagnostic laboratory and poultry disease laboratory are the sections of clinical instruction.

342b-c. CLINICS. Daily during clinic hours, winter and spring quarters. Third year.

Working with Fourth year students and under close supervision of the clinicians, each student, by observation and as a helper, is afforded the opportunity of obtaining a varied experience in clinical medicine.

357d. CLINIC PRECEPTORSHIP. 13 hours. Daily during clinic hours, and on call at all times for a minimum of ten weeks during summer between the third and four year.

Work performed in groups under supervision of the staff.

442a-b-c. CLINICS. Daily during clinic hours and on call at all times throughout the four year, under supervision by the staff.

Students work in groups and on a rotation basis alternate every two weeks between the various sections of clinical instruction. Under the supervision of a clinician, the student will diagnose, treat, and manage the various cases presented to the clinic.

VETERINARY PATHOLOGY AND PARASITOLOGY

(Hardman Hall, South Campus)

Staff: Cooperrider, Ellis, Jackson, Crimmins.

261a. GENERAL ANIMAL PATHOLOGY. 4 hours. Three recitations or lectures and four hours of laboratory per week, fall quarter. Second year. *Mr. Crimmins.*

A study of the causes of disease and alterations characterizing the degenerations, necrosis, inflammation, repair and neoplasms.

262b-c. SYSTEMATIC ANIMAL PATHOLOGY. 8 hours. Three recitations or lectures and four hours of laboratory per week winter and spring quarters. Second year. *Mr. Crimmins.*

Pathology of the respiratory, circulatory, digestive, genito-urinary, integumentary, nervous, muscular and skeletal systems and specific infectious and nutritional diseases.

274a. VETERINARY PARASITOLOGY (Helminthology). 3 hours. Two lectures and two hours of laboratory per week, fall quarter. Second year. *Mr. Cooperrider*.

Introduction to Veterinary Parasitology and instruction in the economic importance of helminthic parasites of animals in relation to livestock production and public health. Study of the techniques of collection, examination and preservation of parasitological materials as an aid to diagnosis of animal diseases. Studies in general confined to the helminths.

274b. VETERINARY PARASITOLOGY (Helminthology). 4 hours. Three lectures and four hours of laboratory per week, winter quarter. Second year. *Mr. Cooperrider*.

A continuation of the previous course to complete the study of the helminthic parasites.

The above courses in parasitology include instruction and demonstration in classification, morphology, life history, pathogenesis, treatment and control of the nematode, cestode and trematode parasites of domestic animals.

275c. VETERINARY PARASITOLOGY (Entomology and Protozoology). 4 hours. Three lectures and four hours of laboratory per week, spring quarter. Second year. *Mr. Cooperrider*.

A study of those insects and protozoa that are parasitic on or in the domestic animals corresponding to the two helminthological courses listed above.

363a. CLINICAL ANIMAL PATHOLOGY. 4 hours. Three lectures or recitations and three hours of laboratory per week, fall quarter. Third year. *Mr. Jackson*.

This course consists of a series of lecture and laboratory periods designed to instruct the student in the correct methods for preparing and submitting samples to the laboratory for diagnosis, the performing of various laboratory tests and the correct interpretation of these tests. Major emphasis is placed upon performance of the hematological, bacteriological, serological, urological, parasitological and histopathological examinations and to apply the results obtained as a practical aid in the diagnosis of animal diseases.

364b. POULTRY DISEASES. 5 hours. Five lectures or recitations per week, winter quarter. Third year. *Mr. Ellis*.

A study of etiology, epidemiology, pathogenesis, diagnosis, prevention and control of diseases of poultry.

465b. POULTRY DISEASE CONTROL. 3 hours. Three lectures or recitations per week, winter quarter. *Mr. Ellis*.

A course which includes a study of the diagnosis, prevention and control of the common diseases of chickens and turkeys for students with a major in Poultry Husbandry.

466. POULTRY PATHOLOGY. Credit and hours to be arranged. *Mr. Ellis*.

This course provides intensive laboratory experience in diagnosis and through discussions will emphasize disease control and prevention.

804. POULTRY PATHOLOGY. Hours to be arranged. *Mr. Ellis*.

This course provides intensive laboratory experience in diagnosis and through discussion will emphasize disease control and prevention.

VETERINARY PHYSIOLOGY AND PHARMACOLOGY

(Veterinary Laboratory Building, South Campus)

Head: Piercy. Staff: Kamine, Kornfeld.

180a. VETERINARY PHYSIOLOGY. 4 hours. Three lectures and three hours of laboratory per week, fall quarter. First year. *The Staff*.

A survey of the chemistry of physiological processes.

185b-c. VETERINARY PHYSIOLOGY. 8 hours. Three lectures per week, winter and spring quarters, eight hours of laboratory per week, spring quarter. First year. *Mr. Kornfeld* and *Mr. Piercy*.

A study of the physiology of the circulating fluids of the body, the circulatory, respiratory, digestive and urinary systems, metabolism and heat regulation.

285a. VETERINARY PHYSIOLOGY. 5 hours. Three lectures, three hours of laboratory and three hours of seminar per week, fall quarter. Second year. *Mr. Kornfeld* and *Mr. Piercy*.

The physiology of the muscular, nervous, endocrine and reproductive systems of the body. Seminar reports are designed to cover various phases of physiology and physiological chemistry.

290a-b-c. VETERINARY PHARMACOLOGY. 11 hours. Three lectures per week, fall, winter and spring quarters, four hours of laboratory per week, winter and spring quarters. Second year. *Mr. Kamine.*

An introduction to pharmaceutical principles and processes including mathematics and metrology, prescription writing, pharmacological classification of drugs, their pharmaco-dynamic and pharmaco-therapeutic actions, posology, and toxicological properties. Drugs important to the practice of veterinary medicine are stressed.

Laboratory exercises concern demonstration and actual student participation in the biological study of the pharmacological action of drugs and consideration of official and non-official preparations useful in veterinary medicine.

391c. VETERINARY TOXICOLOGY. 3 hours. Three lectures per week, spring quarter. Third year. *Mr. Kamine.*

Toxicological effects of plants and chemicals poisonous to livestock with emphasis on symptoms, treatment, methods of control, and related factors.

DEPARTMENTS OUTSIDE OF THE SCHOOL

ANIMAL HUSBANDRY

(Hardman Hall, South Campus)

373. FEEDS AND FEEDING. 5 hours. Five hours of lecture per week, fall quarter. First year. *Mr. Thomason.*

A study of the basic principles of genetics and reproduction as related to the feeding of all classes of farm livestock.

402. ADVANCED ANIMAL NUTRITION. 5 hours. Five lectures per week, spring quarter. Fourth year. *Mr. Dyer.*

A study of the chemical composition and the physical and chemical properties of feeds and feed nutrients; the digestion, absorption and metabolism of the nutrients; factors affecting nutrient utilization; the functions of the different nutrients; the nutrient requirements of farm animals; the effects of nutrient deficiencies and how to correct and prevent them.

BOTANY

(Baldwin Hall, North Campus)

190c. POISONOUS PLANTS. 2 hours. Four hours of lecture, demonstrations, laboratory, or field trips per week, spring quarter. First year. Also offered in fall quarter, 1950 and 1951 to third year students. *Mr. Duncan.*

A study of the plants that are poisonous to livestock, with emphasis on identification, distribution and species of livestock most apt to be poisoned. This study covers not only the plants growing in Georgia but also those found in the entire Southeastern United States.

DAIRY

(Dairy Building, South Campus)

239c. DAIRY TECHNOLOGY. 3 hours. One lecture and four hours of laboratory per week, spring quarter. Second year. Also offered in winter quarter 1951 and 1952 to fourth year students. *Mr. Bennett.*

A survey of the physical, chemical and biochemical properties of milk and dairy products. Laboratory procedures on pasteurization, quality and sanitary control of dairy products.

POULTRY HUSBANDRY

(Poultry Building, South Campus)

167b. APPLIED VETERINARY GENETICS. 3 hours. Three lectures per week, winter quarter. First year. *Mr. Huston.*

A course dealing with the application of genetics to domestic animals and poultry, emphasizing the genetic influence on the susceptibility to disease and the occurrence of lethal factors.

DEGREES CONFERRED JUNE 5, 1950

MASTER OF ARTS

Emily Bealer Calhoun	Virginia A. Pitts
Harold Earl Davis	Wesley Sale Sherman
Derrell Coolidge Dowdy	John Lee Smith
Alva Len Hutcheson	Franz Thurner
Joseph Buford Mahan, Jr.	James V. Webb

MASTER OF SCIENCE

Norman Miller Atkins	Henry Ford Gober
Howard Walker Burnette	Bradford F. Hadnot
Robert Kent Butz	Richard Leo Young
Joseph Roman Ditzer, Jr.	

MASTER OF FINE ARTS

Florence Evalyn Barnwell	Methvin Thomson Salter, III
David Michael, Jr.	Lewis Owens Thompson
Lawrence Ferguson Mills	

MASTER OF SCIENCE IN AGRICULTURE

Hudson Lester Boyd	Julian Adkins Raburn
Blake Bridges Brantley, Jr.	Edwin Harkness Todd
Jack Earl Jones	J. C. Wells
Harvey Cleo Lowery	Carl Julius Williams

MASTER OF SCIENCE IN AGRICULTURAL ENGINEERING

Reed Smoot Hutchison

MASTER OF SCIENCE IN FORESTRY

Mason C. Cloud, Jr.	Charles Alden Rowland, III
Charles Henry Driver, III	

MASTER OF FORESTRY

Robert Walter Cannon	Robert Emerson Edney
Edward Alton Davenport, Jr.	Cheves Winton Parnell

MASTER OF SCIENCE IN EDUCATION

Edward Rema Cone	Ethel Eugenia Lancaster
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MASTER OF EDUCATION

Fannie Lee Boyd	Alvin Grossman
Annette Maughon Braselton	Albert Parks Henderson
James Garlin Bryant	Tom Curtis Hodges
Robert Griffin Casteel	James Conner Ivey
Daniel Erastus Cochran	Henry Alexander Love
James Chapley Denman	Samuel Arnold Moss
John Dallas Durden, Jr.	Betty Waite Frier Simpson

MASTER OF BUSINESS ADMINISTRATION

Tor Johan Olof Brann	Jasper Ivy Maloy, Jr.
Horace G. Dodson, Jr.	William Hinton Shy
Marvin Columbus Jones, Jr.	

MASTER OF ARTS IN JOURNALISM

Sidney Samuel Thomas

MASTER OF SCIENCE IN HOME ECONOMICS

Betty Cox Baggs

Audrey Sutton Cash

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Charles Van Sicklen Mottola, magna cum laude
 Cecil Jay Olmstead, magna cum laude
 Palmer Hubert Ansley, cum laude
 Thomas Edgar Dyar, cum laude
 Charles L. Goodson, cum laude
 John Rene Hawkins, cum laude
 Cecil Wilbur Lynn, cum laude
 John Pat Persons, cum laude
 John William Roberts, Jr., cum laude
 Hoyt Henry Whelchel, Jr., cum laude

Baron Henry Asher
 Augustus Reagam Barksdale
 J. Donald Bennett
 James Benjamin Blackburn
 Edward Earl Brown
 Susan Henrietta Brown
 Bobby Day Bryant
 Clark Howell Bryant, Jr.
 Hiram Edward Camp, Jr.
 Joseph Elbert Cheeley, Jr.
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 Henry Eugene Cline
 Carswell Hill Cobb
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 Henry Thaddeus Crawley
 Jack Sullivan Davidson
 Braswell Drue Deen, Jr.
 Harry Ashley DeLoach
 David Stanley Eisenberg
 William Mallette Exley, Jr.
 Frank Foy Faulk
 Albert P. Feldman
 Leroy Clemens Fowler
 Ralph Freeman
 Joseph Jackson Fulbright
 Ruth Estelle Gaskin
 Quinton Lamar Gibson
 Edwin Reginald Hancock
 William M. Harris, Jr.
 Otis Woodard Harrison
 Julian Hartridge, Jr.
 Lincoln Nelson Haslam
 Glenn B. Hester
 Andrew Judson Hill, Jr.
 Oscar Palmour Hollis
 Elie Lee Holton
 Noah Edgar Holton, Jr.
 Paul Brannon Huckeby

Benjamin Pope Jackson, Jr.
 John Lee Jernigan
 Billy Maddox Jones
 David Campbell Jones
 Robert Wick Jones
 Robert J. Kamack
 John Groover Kennedy, Jr.
 John Steverson Knight
 Ezekiel Roy Lambert
 Bernard Kerr Logan
 Lemuel Maddox
 Dorothy Ann Massenburg
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 James Polk McLain, Jr.
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 Alvin Bloch Mitchell
 Claude E. Moss
 William Augustus Nevin, Jr.
 James Connor Owens, Jr.
 James Clement Pullin
 William Talmage Roberts
 Louis Harris Rozier
 Francis Eugene Ruffin
 Robert Lee Russell, Jr.
 Parham Walter Smith, Jr.
 Thomas Marvin Smith, Jr.
 William Truett Smith
 George O. Taylor
 Charlton M. Theus, Jr.
 Wilbur Jackson Tipton
 Henry Battey Troutman, Jr.
 William Alford Wall
 Albert Bailey Wallace
 Daniel H. White
 Watson Lawrence White
 Glenn Thomas York
 Frank Allen Young

DOCTOR OF VETERINARY MEDICINE

Lawrence Tarver Crimmins, cum laude
 Quincy Lewis Darbyshire, cum laude
 Calvin Marion Davis, cum laude
 Deward Earl Hightower, cum laude
 John T. Mercer, cum laude

Donovan Baker Bell, Jr.
 Carl Ashton Blount, Jr.
 James Turner Bryson
 Walter Granger Cook
 John Lee Christopher
 Ollie Mabry Dodgen
 Arthur Leroy Dorminy
 Roscoe Lee Drake
 Frederick Emmett Ducey, Jr.
 Obe Daniley Dye, Jr.
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 Ernest Ray Griner
 Clarence B. Grubbs, Jr.
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 Gaynor Wilson Henry
 John Greene Herring, Jr.
 Byron Franklin Hilliard
 Lois Eugenia Hinson
 Lecel Tyler Leard
 Charles Winfred Leonard

Robert Lester Lott
 Edward Lee McConnell
 Paul Angus McDonald
 Charles Neill McNeill
 Ralph Carol Mobley
 Murry Edward Nunnery
 Joseph O'Connor
 Jack Roles Palmer
 Harley Angus Phillips
 Clyde Monroe Reagan
 Robert Odum Shannon
 Felix Marion Smith
 William Vaughn Smith
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 Walter Gene Thomas
 Jack Gilbert Tuttle
 William Harrison Watson, Jr.
 Charlie Loyd Williams
 Charles W. Wincey

BACHELOR OF ARTS

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 Barbara Edwina Pause, cum laude
 John Berry Benson, with special honors in English

Sonya Herschine Abelson
 Jean Isabelle Allen
 Carl Raymond Anderson
 Beverly Allen Asbury
 Robert Charles Balfour, III
 Lantie Vanelle Barrett
 Vivian Cleo Barlow
 Mary Anne Beck
 Susanna James Bellmore
 Mary Elizabeth Black
 Glenna Katherine Boardman
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 Deore J. Cannon
 Catherine Deriseau Chance
 Theodore Keller Cobb
 Neil Page Collins

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 Richard Lamar Custer
 Cornelius Benson Davis
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 Alice Nan Divine
 Barbara Dorward
 Louie Newton Dowis
 Virginia Byrd Drake
 Clinton David Dyches, Jr.
 Walter Jay Edwards
 Lewis Bertram Epstein
 Nona Marie Ferdon
 Frances Eloise Fowler
 Rita Louise Fowler
 Sam Frew
 David Michael Friedman
 Shirley Jane Fries
 Michael Gannam
 Robert Gentry Gartrell
 Quinton Lamar Gibson
 Margaret Gilbert
 David Perry Ginn
 Joel Hirsch Goldberg
 Linda Arnold Grills

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Harriet Emile Heins	Irwin Lewis Prager
Mary Adele Henderson	Alfred Asbury Quillian
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Ernest Basil Holditch	Lucy Carolyn Satterwhite
Grace Florence Holden	Francis Muir Scarlett
Dorothy Jeanne Hollingsworth	Carl Samuel Selsky
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Martha George Jackson	Carroll Lewis Simmons
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Sheila Whitman Kelly	Raleigh Hightower Sims, Jr.
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Stedham Lamar Maddox	Ann Stubbs
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Jorge Angel Nobregas, Jr.	Martha Leta Webb
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Carolyn McLendon Parker	Betty Slade Williams
Esther Parrish	Mary Margaret Williams
William Eston Paulk, Jr.	Anne Claiborne Willingham
Isaac Hall Peebles	Ann Elizabeth Wilson
Elizabeth Ann Pitts	Barbara Lyon Wood

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 Chester Earl McKay, cum laude
 Hoke Smith Nash, Jr., cum laude

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William Oliver Granade	George Robert Phillips
Richard Forrest Graves	William Kenneth Pittman
Rowland Eugene Gregory	Harold Bennett Poole
Beverly Ann Gunn	Bernard Mayer Portman
Herman G. Hamby	Dewey Ralph Power
Jean Cathlean Hess	Lake Theodore Proctor
Wynelle Hinson	Carlin DeWitt Rainey
Betty Ann Hogan	Robert Louis Reeves
Marion Lewellyn Holliman	Florence Ellen Rehnquist
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Richard Nelms Jones	Wilburn Dewey Russell
Uno Kask	Beverly June Scarborough
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John Walter Krewson, Jr.	Evan Harvey Thompson, Jr.
Elmer Lawrence Kruger	Homer Scott Titshaw, Jr.
McDaniel M. Lang	William McClintock Todd
Herman Lawton Lee	Frank E. Troiano
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Charles Albert Little, Jr.	Gordon Ervin Walters
William Collier Martin	Ray Darwin Webb
Mae Massey	William Parker Westbrook, Jr.
Murray Norman Matez	Jack Griffin Wheelchel
George Walker McCammon	Andrew Jackson Whitaker
Asben Alpha McCurry, Jr.	Bettie Zane Williams
LeMar Scott McGinnis, Jr.	John Atticus Williams, Jr.
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George Thomas Mims, Jr.	Jane Irwin Wise
Diskin Gilford Morgan	Allie Janie Wright
Milton Hood Murray	

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Midford Middleton Broadwell	Charles L. Norton

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Willie Mae Graham	Edith Claire Wilson
Christine Maxcy	

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 Sara Berrien Baxley
 Charlotte Ann Bell
 Patsy Clark
 Macon Gregory Core
 Marilyn Martin Cox
 Barbara Schwettmann Crawford
 Jean Carolyn Cummings
 Marjorie Inez Davis
 James Edwin Dean
 Joe Travis Dye
 Mary Brock Eidson
 James Alvin Ellison
 Beverly Jeanne Flanders
 Howard Eugene Frable, Jr.
 George Herman Gaines
 Thomas Gardner Gidley
 Iris Hart Gignilliat
 Donald Harris Goldman
 Marcia Esther Goldman
 James Kenneth Griffeth
 William Morton Groff
 John Edward Hamrick
 Troupe Mercer Harris, Jr.
 Mary Eleanor Haslett
 Robert Clifford Henning
 Beverly Briggs House
 William Christoff Hudson
 James Clifford Hulme, Jr.
 Patricia Anne James
 Edward Arthur Johnson
 Virginia Carleen Johnson
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 Florance Obeare Lacour
 Alice Thompson Law

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 Kathryn Patricia Mays
 Stephens Cary McColskey
 William Wrenshall McCullock, Jr.
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 Jesse Leonard Ruffin
 Millicent Jane Schneider
 Pearl Seligman
 Margaret Louise Sherman
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 Joy Elizabeth Smith
 Mitchell Martha Smith
 Nancy Anderson Stanley
 Albert Jack Stodghill
 Patricia Ann Turner
 Iris Frances Van Houten
 Lambros Charles Vocalis - 1949
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 Thomas Goodwin Walker
 Fred Weatherly
 Eugene Baxter Webb
 Maxine Wells
 Thomas G. Williams, Jr.
 Margaret Camille Wood

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Iva Mae Wallace, magna cum laude

G. M. Atkinson
 George Perry Atkinson, Jr.
 David Louis Branch, Jr.
 John Boyd Butts, Jr.
 Edward Glenn Caldwell
 Glynn Lamar Cawley
 James Wiley Clark, Jr.
 Ross Alexander Cloer
 John Milton Cochran, Jr.
 David Turner Coley
 James Erwin Comer
 Lamar Fulcher Cooley
 Carleton Carson Crabill, Jr.
 Cornelius Marvin Crouch
 Sam Thomas Davis, Jr.

Geraldine Jeanie Dodgen
 Stanley Martin DuPree
 Samuel Joseph Durden
 William Delmon Easterly, Jr.
 Nathan Thomas Elder
 Durward Neal Entrekin
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 William Doyal Fields
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 Charlotte Irene Gleeson
 James Conner Gordy
 Peyton Warde Grigg, Jr.
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 James Linton Holcomb, Jr.
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 Lamar James Jackson, Jr.
 Ferman Lloyd Jay
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 John William Kennedy
 Wyman Rexall Kirkland
 Clarence Otis Landers, Jr.
 Harold Joseph Lefkoff
 Gilbert LaSeine Lewis
 Roy Julius Malcolm
 James Riley Mauldin
 Willie Lee Maxwell
 William Albert McKenzie
 Charles Ligon McWhorter, Jr.
 Robert Lee McWilliams
 James Mitchell, Jr.

Doyle Erwin Mote
 James Frank Olliff, Jr.
 Robert Thomas Petruzzo
 Edward Nesbit Potter
 James Augustus Redfearn, Jr.
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 Laura Perez Rosario
 Darius DeWitt Stamey
 Walter Greene Strange, Jr.
 Walter Hardwick Swearingen
 William Harold Thomas
 William Richard Thomas, Jr.
 Thomas Mahone Tolleson
 Leon Calvin Tomlinson
 Jack Catlett Toombs
 Earl Caloway Troup
 James Allen Turner
 Augustus Guinn Vaughn
 Charles Moses Waldrop, Jr.
 George Aubrey Wheeler
 Clyde Weydell Whitworth
 Carl Cook Wicker
 Charlie Frank Young

BACHELOR OF SCIENCE IN AGRICULTURE

James Marion Aiken, cum laude

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 John Widner Adams
 William Robinson Akers
 George Lester Allmond, Jr.
 Marion Lewis Anderson
 Constantinos George Apostolakis
 John Jackson Armstrong, Jr.
 Thomas Blake Armstrong, Jr.
 Daniel Dexter Bacon
 Eldridge Odell Baggett
 James Ray Bagwell
 John Troy Barton
 M. H. Belcher, Jr.
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 Robert Haynes Beverly
 Curtis Lamar Bigham
 LeRoy Bigham
 Frank Moody Blackburn
 James Moten Bledsoe, Jr.
 John Davis Bolton
 James Augustus Bower
 David Eli Bozeman
 Stephen Joshua Brannen
 John Henry Bridges
 Emory Myron Brooks
 James Edward Brown
 Curtis Lee Browning
 Owen Franklin Bryant
 Jack Phillips Buchanan
 Daniel Israel Bugeslov
 Thomas E. Bush, Jr.
 Joe A. Cannon

Otho Lee Butler
 Robert Christopher Cantey
 Bond Monroe Carlton
 David Dennis Carroll
 Graham McNeil Carter
 Ollie Winford Carter
 Tom Bell Cash
 Morris Lamar Chapman
 Joseph Logan Clark
 William Madison Clement, Jr.
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 Pierce Lovett Cline
 Leonard Fretwell Cobb
 Harold Olin Cole
 Cecil Lennis Collins
 John Sidney Conner
 Herbert Eugene Cook
 Jack Daniel Courson
 Benjamin Franklin Cowart
 Jimmie Lane Cowart
 Buford Olin Cox
 Cullen Cecil Crook
 Walter Green Culverhouse, Jr.
 Judson Henry Daniel
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 Albert David Dean, Jr.
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 Arthur Hudson Dunagin
 Charles Porter Ellington

Robert Hardin Farmer
Novis Kenneth Fields
Clarence Fisher, Jr.
Halley Alford Fleming
Alex White Franklin
Thomas Lanier Frazier
Clarence Harold Freeman
Melver Marvin Fulghum
John Eugene Fuller
Godfrey Marion Funk
Robert Lee Fuquea
Claude Ralph Gaines, Jr.
James Leroy Garrett
Craig Gay
John Harry Gay, Jr.
Towns Tolbert Gay, Jr.
William Marvin Giddens
William Henry Gilbert
Julian Alphonso Gissendanner
William Mays Gober, Jr.
Morgan Golden
Raymond Colon Gornto
Thomas Oren Gurley
William Harold Gurley
Royce Charon Hall
Hugh Victor Harless
James Monroe Harper
Jack Tarver Harrison
William Turner Hay
Thomas Howard Helton
Harry Edward Hemphill
Robert Bennie Henderson
Donald LeRoy Herndon
Earl Nolan Hester
William Harris Hinton
Robert Harry Hodges
Benjamin Milton Hogan
Luke Howell
Anton Huber
Joe Ellis Ingram
Calvin Lewis Jackson
James Lowe Jackson
Marvin David Jackson
Alfred Irving Jaffee
John Henry Johnson
Emmet Marshall Jordan
Edgar William Keller
Elbert Bird Kicklighter
Marion Jackson Kiser
Roy Chappell Knight
George Miloslav Kozelnicky
Crayton James Lankford
John Knox Larkins
Claude Hoyt Leasman
Clarence Ernest Lee, Jr.
Robert Clarence Lee
Logan Montgomery Lewis
Bobby Jackson Locke
William Dean Long
Verdie E. Love, Jr.
Herbert Hodges Luke
Jethro Cline Mahaffey
Karl Duane Maret
Hugh Benson Martin, Jr.
Edwin Cannon Martin
Jack Daniel Martin
Thomas Riviere Mashburn
Lewis Lester McCrary
Maurice Carroll McMillan
Charles Clifford Meeks
William Russ Meigs
Russell Lee Miller
Howell Edward Minchew
William Robert Mitchell
James Homer Moore, Jr.
Walter Jackson Moore, Jr.
Coatus Lee Morehead, Jr.
George Rollie Morris, Jr.
William Clarence Muggridge
Frederick Myers, Jr.
Russell Oliver Neal
Fred Braswell Newton, Jr.
J. Preston Newton
Lee Roy O'Neal
Henry Holbert Owings, Jr.
James Harold Parker
Robert Thomas Parker
Robert McDowell Paxson
Ralph Lewis Petree
Grady Wallace Phillips
Charles Talmadge Pickren
Joseph Benjamin Powell
Dan Edwin Pratt
Howard Lavaine Pridgen
Thomas David Quarles
Clark Quarterman
Richard Eugene Ramsey
Kay Read
James Benjamin Rice, Jr.
Samuel Winters Richwine
Ive Leonard Ridley, Jr.
Walter James Riley, Jr.
Alfred Ernest Ritchie
Wallace Ralph Rodgers
Walter Harrison Rucker
Jesse Rhodes Russell
Rufus Gerald Sadler
Charles Winfred Seigler
Robert Verna Shiver
James Donald Smith
Olin Cecil Smith
Warner G. Smith
Thomas Edmund Stephens, Jr.
Frank Harrison Stephenson
William Spencer Stevenson
John Lafayette Stewart
Cicero Willis Swint
John Wesley Taylor
Lewis Perkins Teal, Jr.
Aubrey Wayne Tennile
Pearly Uzziar Thigpen
Buster Phinezy Thomas

Grover Jehue Thomas, Jr.	William Leonard Whittle
Thomas Warren Thornton, Jr.	Harry Lynnwood Wingate, Jr.
David Harding Tift	Ray Wood
Thomas Berry Tillman, Jr.	Wendell H. Wood
Larry Thomas Torrance	William Franklin Wood
Aubrey Varner	Charles Robert Worrall
Thomas Lavelle Webb	Cornelius Jackman Worrell
Branson Edwin Welborn	William H. Worrell, Jr.
Thomas Edward Wheeler	Howard Bacon Young
Emmet Vickery Whelchel, Jr.	William Pearce Zellner

BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING

James Travis Reid, cum laude

Walter Dozier Allen	Fred Edward House
Elvis Eugene Andrews	Oswald Dorsett Hudgins
Denver Olen Baxter	Charles Bedingfield Lanier
Lewis Mercer Brown	Shelby Robert Lastinger
Joe Mervin Carson	Jesse Cornelius Lumsden, Jr.
Andrew Cowart	Joseph Beecher McCrary, Jr.
Alfred Cecil Doudney	William Floyd McCreery
Liston Nathaniel Drury	Leslie Bowen Patrick
Welborn Arthur Duke	Wesley Jones Phillips
John Paul Eidson, Jr.	Joshua Franklin Pirkle
Mark Burke Faulk	Joseph Ernest Pryor
William Henry Fletcher	Curtis Benjamin Roane
Judson Lee Freeman, Jr.	James Douglas Sanders
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James Marion Gentry	James Rushing Stansell, Jr.
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Edsel Aurburn Harrell	Herman Lee Turk
Edwin Harber Hill	Frank Van Haltern, Jr.

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Sidney Troy Gattis, Jr.	James Jasper Hamby
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Robert Williams Hamilton, Jr.	William Brantley Wise

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 Carl Hembree St. John, Jr., cum laude

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Waverly Clare Broadwell	Kenneth Brooks Gibson
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Herbert Wright Darley	Robert Trumain Hamlett

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 Robert Peyton Harrison
 Ernest Berry Haskins
 Albert Henry Hembee, Jr.
 Alfred Lloyd Hughes
 Harold Ray Johnson
 Timothy Jack Johnson, Jr.
 Edwin Eugene Kelly
 James Wylie Lanier III
 Eli Stone Lewis, Jr.
 Toombs DuBose Lewis, Sr..
 William Morgan Lindsey
 Henry James Malsberger, Jr.
 Reuben Walter Martin, Jr.
 James Floyd McNeil
 Harvey Cleon Mills
 Harold Loyd Morrow
 Wallace Leon Neel
 Ray Nickens, Jr.
 L. C. Nix

John Vinson Orr
 John Reid Parker
 Goodwin Scott Rankin, Jr.
 John Millard Shavis
 Walter Simons
 Joe Preston Simpson
 Sam Mitchell Slade
 Lawrence Sherwood Stanley
 Verrille Grey Thigpen
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INDEX

	Page		Page
Absences	60	Business Research, Bureau of	315
Academic Advisers	111	Calendar	3
Academic Regulations	55, 59	Campus, Map of	4
Academic Year Calendar	3	Certificate, Admission by	46
Activities, Student Life and	60, 68, 71	Chemistry, Courses in	140
Administrative Officers		Citizenship, Information	86
—General	9	Classics, Courses in	142
—Educational	10	Classification of Students	56
Admission Requirements		Clinic, University of Georgia	177
—Methods of Admission	46	Colleges and Schools	
—By Certificate	46	—Agriculture	212
—By Examination	48	—Arts and Sciences	103
—Special Students	48	—Business Administration	311
—Irregular Students	48	—Education	276
—Advanced Standing	49	—Forestry	266
—Transfer Students	50	—Graduate	90
—Graduate School	90	—Home Economics	348
—School of Law	186	—Journalism	334
Agricultural Chemistry	252	—Law	183
Agricultural Economics	229	—Pharmacy	200
Agricultural Education, Depart- ment of	254	—Veterinary Medicine	364
Agricultural Engineering	257	Conferences	86
Agricultural Experiment Stations	224	Constitutions: Examinations	58
Agricultural Extension	224	Correspondence and Extension	84
Agriculture, College of	212	Counselors, Students	68, 111
Agronomy, Department of	234	Courses	
Air Science and Tactics	52, 54, 76	—Changes in	59
Alumni Society	88	—Numbering	57
Animal Husbandry, Department of	238	Credits, Units of	55
Anthropology and Archaeology, Courses in	129	Dairy, Department of	239
Armed Services	52, 76	Debating Societies	76
Art, Courses in	129	Degrees Conferred, 1950	376
Art, Department of	119	Degrees Offered	52
Arts and Law Combined	115	Degree Requirements	58
Arts and Sciences, College of	103	—Bachelor of Arts	112
Assistantships	99	—Bachelor of Arts in Journalism	341
Astronomy, Courses in	171	—Bachelor of Fine Arts	118
Athletic Association	88	—Major in Art	119
Athletics	70, 88	—Major in Drama	123
Atlanta Area Teacher Education Service	283	—Major in Music	122
Atlanta Division	43	Bachelor of Landscape Architecture	262
Attendance	60	Bachelor of Laws	187
Aviation, Courses in	320, 327	Bachelor of Science	112
Bacteriology, Courses in	134	—Science and Medicine Curriculum	117
Biology, Courses in	135	Bachelor of Science in Agriculture	226
Board and Lodging	71	—Bachelor of Science in Agri- culture Major in Agricul- tural Education	254, 295
Board of Regents	8	Bachelor of Science in Agri- cultural Engineering	257
Botany, Courses in	138	Bachelor of Business Administration	316
Buildings and Grounds	43		
Business Administration, College of	311		
Business and Law Combined	324		

Bachelor of Science in Chemistry...	116	Forestry, School of	266
Bachelor of Science in Education...	285	Foundation, the University of Georgia	88
Bachelor of Science in Forestry...	270	Fraternities	
Bachelor of Science in Home Economics	351	—Honor	63
Bachelor of Science in Land- scape Architecture	262	—Social	71
Bachelor of Science in Nurs- ing Education	123	French, Courses in	157
Bachelor of Science in Pharmacy...	206	Freshman Week	51
Doctor of Education	98, 282	General Extension Division	84
Doctor of Philosophy	96	Geography, Courses in	148
Master's Degrees	91, 282	Geology, Courses in	150
Dismissal Regulations	60, 61	German, Courses in	159
Dormitories		Gilbert Infirmary	69
—Men	71	Grades, Scholastic	55
—Women	72	Graduate Assistants	39, 99
Dormitory and Dining Hall Fees...	71, 72	Graduate School	90
Drama, Department of Speech and...	122	Greek, Courses in	143
—Courses in	180	Grounds and Buildings	43
Economics, Courses in	144, 330	Health Service	69
Education, College of	276	History, Courses in	152
Educational Research and Field Services, Bureau of	283	History of University	42
Employment, Student	83	Home Economics, School of	348
English, Courses in	147	Honor List	63
Entrance Requirements	46	Honor Societies and Fraternities	63
Examination, Admission by	48	Honors and Prizes	63
Expenses (See Fees and Housing)...	75	Honors Work in Special Subjects...	62
Experiment Stations, Agricultural...	224	Horticulture, Department of	244
Extension Division—Agricultural...	224	Housing of Students	71
Extension Division—General	84	Human Biology Courses	135
Faculty		Industrial Arts	290, 304
—General	11	Infirmary	69
—Agriculture	212	International Affairs Curriculum	114
—Arts and Sciences	103	Institutes	86
—Business Administration	311	Irregular Students	48
—Education	276	Italian, Courses in	160
—Forestry	266	Journalism, School of	334
—Home Economics	348	Journalism and Law Combined	343
—Journalism	334	Laboratories	45
—Law	183	Landscape Architecture	261
—Pharmacy	200	Late Registration Fee	50, 77
—Veterinary Medicine	364	Latin, Courses in	143
Fees and Expenses	75	Law, School of	183
—Non-Resident Fees	75	—Admission to	186
—Special Fees	77	Lecture Series	69
—Summary	78	Libraries	44
—Time and Method of Payment...	77	Library Service, Courses in	306
—Refunds	78	Library Staff	39
Fellows	39	Literary Societies and Debating	70
Fellowships	99	Load of Work	
Film Library	85	—Normal	57
Financial Aid	79	—Variations	57
—Employment	83	Loan Funds	79
Fine Arts, Courses in	148	Lucas, Arthur Memorial Fund	89
Fine Arts, Division of	118	Master's Degrees	91
Food Technology, Department of...	242		
Forensic Activities	70		

Mathematics, Courses in	154	Research Assistants	100
Medical Examinations	51, 69	Research (Michael Award)	89
Men's Dormitories	71	Residence Requirements	58
Michael Award	89	Romance Languages, Courses in	157
Military Science and Tactics	52, 54, 76	Russian Language, Courses in	160
Military Fees	76	Scholarships and Loan Funds	63, 79
Minimum Residence Requirements	58	Scholarships	63, 99
Music Appreciation	70	Scholastic Grades	55
Music, Department of	121	Schools and Colleges	
—Courses in	162	(See Colleges and Schools)	
Non-Resident Students	75	Science and Medicine Combined	117
Numbering System of Courses	57	Short Courses	86
Nursing Education, Department of	123	Shorthand and Typing, Courses in	326
—Courses in	166	Social Science Course	178
Oak Ridge Institute of Nuclear		Sociology, Courses in	178
Studies	101	Spanish, Courses in	160
Pharmacy, School of	200	Special Students	48
Philosophy, Courses in	168	Speech, Courses in	181
Physical Education	58, 289, 294, 307	Speech and Drama, Department of	122
Physical Examination	51, 69	Student Classification	56
Physical Science Courses	170	Student Conduct	60
Physics and Astronomy, Courses in	170	Student Counseling	68
Placement of Graduates	83	Student Health	69
Plant Pathology and Plant		Student Life and Activities	68
Breeding, Department of	248	Student Publications	70
Political Science, Courses in	172	Transfer Students	49, 112
Poultry Husbandry, Department of	250	—Modification of Degree	
Pre-Medical Course	117	Requirements	50, 112
Pre-Veterinary Medicine	117, 225, 369	United Nations, Information	86
Press, the University of Georgia	87	University Calendar	3
Prizes and Honors	63	University Foundation	88
Probation Regulations	61	University, History of	42
Psychology, Courses in	174	University Press	87
Publications	70	Veterans of World War II	55
Quarter System	45	—Public Law 16	55
Refunds of Fees	78	—Public Law 346	55
Regents, Board of	8	Veterinary Medicine, School of	364
Registration	50	Vocational Education	304
—Freshman Week	51	Wildlife Management, B.S. in For-	
Regulations Governing Students		estry, Major in	271
—Academic	55, 59	Withdrawals from the University	60
Religion, Courses in	177	Women's Dormitories	72
Religious Activities	71	Work, Normal Load of	57
Reports	61	Workshops, Education	284
Requirements for Graduation		Zoology, Courses in	136
(See Degree Requirements)	58		









