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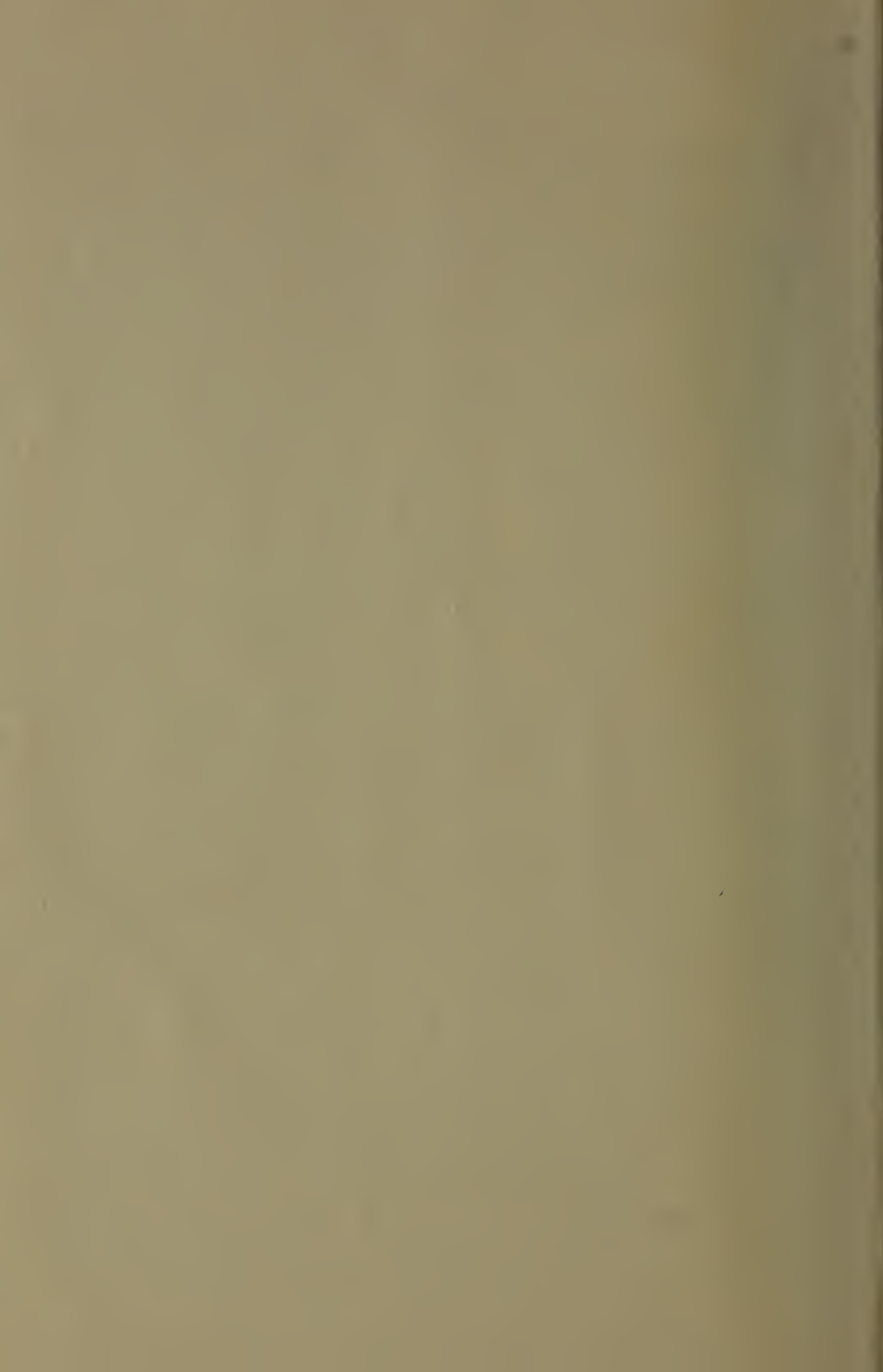
## *General Catalogue*



Register for 1963 - 1964

Announcements for 1964 - 1965

Athens, Georgia





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**BULLETIN OF**

THE UNIVERSITY OF GEORGIA

GENERAL CATALOGUE  
1964-1965

ATHENS, GEORGIA

1964

CALENDAR

1964

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					1	2	3	4					1	2	3
5	6	7	8	9	10	11	5	6	7	8	9	10	11	4	5	6	7	8	9	10		
12	13	14	15	16	17	18	12	13	14	15	16	17	18	11	12	13	14	15	16	17		
19	20	21	22	23	24	25	19	20	21	22	23	24	25	18	19	20	21	22	23	24		
26	27	28	29	30			26	27	28	29	30	31		25	26	27	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		
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3	4	5	6	7	8	9	2	3	4	5	6	7	8	8	9	10	11	12	13	14		
10	11	12	13	14	15	16	9	10	11	12	13	14	15	15	16	17	18	19	20	21		
17	18	19	20	21	22	23	16	17	18	19	20	21	22	22	23	24	25	26	27	28		
24	25	26	27	28	29	30	23	24	25	26	27	28	29	29	30							
31							30	31														
JUNE							SEPTEMBER							DECEMBER								
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		1	2	3	4	5		1	2	3	4	5				
7	8	9	10	11	12	13	6	7	8	9	10	11	12	6	7	8	9	10	11	12		
14	15	16	17	18	19	20	13	14	15	16	17	18	19	13	14	15	16	17	18	19		
21	22	23	24	25	26	27	20	21	22	23	24	25	26	20	21	22	23	24	25	26		
28	29	30					27	28	29	30				27	28	29	30	31				

1965

CALENDAR

1965

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

# THE UNIVERSITY OF GEORGIA

## CALENDAR, 1964-1965

### SUMMER QUARTER, 1964

JUNE 15	Registration
JUNE 16	Classes begin
JULY 4	Holiday
JULY 22	Term ends
	Second Term
JULY 27	Registration and Classes begin
AUGUST 21	Term ends—Graduation

### FALL QUARTER, 1964

SEPTEMBER 20	Freshmen report to assigned dormitories
SEPTEMBER 20-24	Orientation Week
SEPTEMBER 23-24	Registration
SEPTEMBER 25	Classes begin for all students
SEPTEMBER 21-	AATES and Workshop registration
OCTOBER 3	
OCTOBER 3	Saturday classes registration
NOVEMBER 26-27	Thanksgiving recess (Begins at 3:00 p.m. on 25th)
DECEMBER 10	Classes end
DECEMBER 12-17	Examinations
DECEMBER 17	Term ends
DECEMBER 18	Christmas vacation begins

### WINTER QUARTER, 1965

JANUARY 4	Registration—Saturday, January 9 will be regular class day
JANUARY 5	Classes begin
FEBRUARY 25	Constitution Examination
MARCH 12	Classes end
MARCH 13-18	Examinations
MARCH 18	Term ends
MARCH 19-22	Spring recess

### SPRING QUARTER, 1965

MARCH 23	Registration—Saturday, March 27 will be regular class day.
MARCH 24	Classes begin
MAY	Annual Inspection Air and Army ROTC
MAY	Honors Day
MAY 28	Classes end
MAY 29-JUNE 3	Examinations
JUNE 5	Term ends—Graduation

### SUMMER QUARTER, 1965

JUNE 14-AUGUST 20

### FALL QUARTER, 1965

SEPTEMBER 19-  
DECEMBER 16

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Volume LXIV

March 5, 1964

Number 8

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Serial No. 1231

# THE UNIVERSITY OF GEORGIA

ATHENS, GEORGIA



NORTH CAMPUS

# CAMPUS



## SOUTH CAMPUS

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JAMES W. BELAND, *Forestry*  
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GLENDA E. BOGGS, *Bacteriology*  
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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 door 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 twelve colleges and schools and by a division which is an integral part of the University. These colleges and schools and the dates of their establishment as separate administrative units are as follows: College of Arts and Science, 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; School of Social Work, 1964. The Division of General Extension, now The Georgia Center for Continuing Education, was 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.

### 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, with the exception of the natural and biological sciences, the School of Law, the College of Education, the College of Business Administration, and the School of Journalism. Here also are a dining hall and eight dormitories for students. Thirty-nine principal buildings are located on this campus. Among these buildings are Old College (1801), New College (1832), Demosthenian Hall (1834), the University Chapel (1832), and Phi Kappa Hall (1834).

Close to 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 are situated the buildings that house the college of Agriculture, the School of Forestry, the School of Home Economics, the School of Pharmacy, the School of Veterinary Medicine, the Georgia Center for Continuing Education and the newly constructed Science Center. There are forty-one major buildings on the South Campus.

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.

Names and locations of buildings are shown on the Campus Map in the front of this catalogue.

### LIBRARIES

On June 30, 1963, the Libraries of the University contained 549,258 volumes besides many manuscripts, maps, pamphlets and other items. Material is being constantly added in the support of current teaching and research.

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; the Keith Read Collection of Georgia manuscripts; some early Georgia colonial manuscripts which were once the property of the Earl of Egmont, first president of the Trustees of the Georgia Colony; and the mathematical collection which, as the result of acquiring the 13,000-volume library of the American Mathematical Society in 1951, is one of the best in the country.

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 States.

Current subscriptions are maintained for more than 4,200 periodicals and

newspapers. Many of the publications of the important universities and scholarly societies are also received.

In addition to the facilities of the Ilah Dunlap Little Memorial Library (the Main Library), special services are provided in the South Branch Library for the College of Agriculture, the School of Home Economics, the School of Pharmacy, and the science departments of the College of Arts and Sciences. There are separate collections for the Schools of Forestry, Law, and Veterinary Medicine located in their buildings.

The resources of all branches except Law are catalogued in the Main Library and the book resources of all units are available on equal terms to the students and faculties of all colleges and schools.

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 both members of the faculty and to students. Most books, except reference works, periodicals, and material used in class assignments, are lent for two weeks.

The Main Library is open from 8:00 A. M. to 11:30 P. M. Monday through Friday, from 8:00 A. M. to 5:00 P. M. on Saturday, and from 2:00 to 10:00 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 new Science Center consists of six buildings housing the Biological Sciences, Chemistry, Physics, Mathematics-Geography and Geology, Food Technology, and Livestock and Poultry. All have laboratories that are well equipped for instruction and original research. There are a number of 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-television 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 date 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.

## ADMISSIONS

### SCHOLASTIC AND PERSONAL REQUIREMENTS

The applicant must be at least sixteen years of age and of established good moral character. The University reserves the right to examine and investigate the moral worth, character, and personality of the applicant.

THE COLLEGE ENTRANCE EXAMINATION BOARD'S SCHOLASTIC APTITUDE TEST AND THE ENGLISH COMPOSITION AND INTERMEDIATE MATHEMATICS ACHIEVEMENT TESTS are required of all applicants for admission.

Students who have had at least two years of modern foreign language in high school must take the College Board Achievement Test in that language.

The results of these tests must be filed with the Director of Admissions by the required date. Information about these requirements for each registration period can be secured from the Director of Admissions. The high school principal or counselor will supply the necessary information for making application to take the required tests, or the applicant may write directly to the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

APPLICATION FOR ADMISSION FORMS WILL BE PROVIDED BY THE DIRECTOR OF ADMISSIONS on request. Completion of all application forms and of all requirements contained therein is mandatory on each applicant before his request for admission can be considered. No application form will be considered unless received at least twenty days prior to the registration date. The University reserves the right to terminate acceptance of application forms when enrollment limits are reached.

### SPECIFIC ADMISSION REQUIREMENTS OF COLLEGES AND SCHOOLS

The applicant must have a minimum of 16 units from an accredited high school and meet the specific requirements of the college or school he wishes to enter. Specific course requirements of the several colleges and schools follow.

College of Arts and Sciences (except Bachelor of Science, Bachelor of Science in Chemistry, and Bachelor of Science in Physics curricula), College of Agriculture (except Bachelor of Science in Agricultural Engineering curriculum), College of Business Administration, College of Education, School of Forestry, School of Home Economics, and School of Journalism.

Required Subject	Units
	10
English	4
Algebra	1
Other Mathematics	1
Social Studies	2
Science	2
*Optional Subjects from Group A below	4
Optional Subjects from Group B below	2
Total	16

Bachelor of Science, Bachelor of Science in Chemistry, and Bachelor of Science in Physics in the College of Arts and Sciences and Bachelor of Science in Agricultural Engineering in the College of Agriculture.

	Units
Required Subjects	12
English	4
Algebra and Trigonometry	3
Plane Geometry	1
Social Studies	2
Chemistry	$\frac{1}{2}$
Physics	$\frac{1}{2}$
Other Sciences	1
*Optional Subjects from Group A below	4
Optional Subjects from Group B below	1
Total	17

## OPTIONAL SUBJECTS

Group A	Group B
English	Other subjects for
Foreign Language	which credit is awarded
Mathematics	by accredited high schools.
Science	
Social Studies	

The University reserves the right to reject the credits from any high school of other institution notwithstanding its accredited status, where the University determines either from investigation or otherwise, that the quality of instruction available at such high school or institution is for any reason deficient or unsatisfactory.

The Director of Admissions or the Admissions Committee may take into consideration the overall high school scholastic record, scores made on aptitude and achievement tests, personnel data and personal recommendations in determining a waiver of one or more of the prescribed units.

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.

Applicants who qualify under the above unit requirements must have a predicted grade point average (based upon high school record, College Entrance Examination Board scores, and other pertinent data as determined by the Admissions Committee of the University) which indicates that the applicant has the potential to pursue effectively an educational program within the University.

If the application forms, CEEB, Scholastic Aptitude Test scores, and other required records of the applicant are found to be complete and in proper order, the applicant will be evaluated in terms of his predicted grade point average, scholastic aptitude, biographical data, social and psychological adjustment, and the probability of his completing the requirements for the desired degree.

Each applicant must give evidence of good moral character, promise of growth, seriousness of purpose, and a sense of social responsibility. The University reserves the right, in every case, to reject any applicant whose general records and attitude do not indicate success in the University environment, notwithstanding the completion of other requirements. The University reserves the right to examine further any applicant extensively by the use of psychological, achievement, aptitude tests, and personal interview.

Credit toward graduation may be given to students qualified for exemption from freshman courses.

\*For students who expect to become candidates for a degree in the College of Arts and Sciences two units in a foreign language are advisable.



AN APPLICANT MAY BE ADMITTED BY PRESENTING A STATE DEPARTMENT OF EDUCATION CERTIFICATE OF HIGH SCHOOL EQUIVALENCY OR BY PASSING ENTRANCE EXAMINATIONS. These methods of admission are confined to persons over 21 years of age and to veterans whose secondary schooling was interrupted by military service. In general, the General Education Development Tests, High School Level, will be used as a testing measure under this section. *No student having attended secondary school during the previous twelve months will be eligible for admission by this method.*

The Admissions Committee and/or the academic dean shall review any application directed to them by the Director of Admissions for total study and subsequent recommendation to the Director of Admissions.

Acceptance or rejection of each and every application will be determined by the Director of Admissions, subject to the right of appeal as provided in the Statutes of the University of Georgia and the Board of Regents of the University System.

### TRANSFER STUDENTS

Transfer students must comply with the foregoing regulations relative to the admission procedures, requirements, and dates for filing the completed application with the Office of the Director of Admissions.

The applicant must request that official transcripts showing evidence of studies pursued at all other colleges or universities be sent to the Director of Admissions. These transcripts must furnish a statement of honorable dismissal. Completion of ALL application forms is required of each applicant for admission by transfer from another institution before his request for admission can be considered. It should be understood that only those applicants will be admitted whose past records indicate a favorable prospect of successful study with the faculty and with the other students in the University. Every transfer student seeking admission will be evaluated for aptitude, achievement, motivation, social and psychological adjustment, and scholastic performance and probability of completing the requirements for a degree. The University reserves the right to examine further any applicant extensively by the use of psychological, achievement, aptitude tests, and personal interview.

Comprehensive-achievement tests will be required for students entering the Junior class.

The University reserves the right to deny admission to any student applying for transfer to the University when, in the opinion of the Director of Admissions, the academic standards or the admission procedures of any institution previously attended are not equivalent or comparable to those existing at the University.

When a transfer applicant's qualifications are in question, the Director of Admissions, at his discretion, will refer the application in totality to the appropriate academic dean and/or the Admissions Committee for review and recommendations.

Acceptance or rejection of each and every application will be determined by the Director of Admissions, subject to the right of appeal as provided in the by-laws of the University of Georgia and the Board of Regents of the University System.

A student who is on probation or who has been dismissed from another institution because of poor scholarship or disciplinary reasons may not enter the University.

Transfer students must have an over-all average of "C" or better in

their previous college work. Such students shall be allowed to transfer not more than 20% of the hours transferred in "D" grades, provided that said student's over-all grade average for the hours transferred is "C" or better.

The University reserves the right to limit the amount of transfer credit for courses with the lowest passing grade. Under no circumstances will credit be allowed for courses in freshman English unless the grades received average "C" (73) or better. College credit will not be allowed for such courses as remedial English and remedial mathematics or courses basically of secondary school level.

Credit for specific courses designated as "core curriculum" or "major" courses will not be allowed unless grades received are above the lowest passing grade.

The total number of hours that may be earned toward a degree by either extension or correspondence courses or both shall not exceed one-fourth of the hours required for graduation. The University reserves the right to otherwise restrict the acceptance of the above mentioned type credits.

The amount of credit that the University will allow for work done in another institution within a given period of time may 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, or 141 academic quarter hours from a senior college may be applied toward a degree; however, most programs require a minimum of 90 quarter hours in residence.

Ten quarter hours of English composition with an average grade of C (73) is required for all undergraduate degrees from the University of Georgia. (This applies to all students entering in September, 1956 and thereafter).

The General Educational Development Tests, College Level, will be administered to veterans at the University Guidance Center in accordance with University regulations. Students with no previous college work should apply directly to the Director of the Center after admission is granted and prior to registration. Students with previous college work must apply for permission to take these tests through the Registrar. In general, this permission will not be granted if work has been pursued in the field or a related field of the subject area involved on the individual tests.

United States Armed Forces Institute (USAFI) courses are not recognized by the University unless they are completed through an accredited institution and provided that that institution grants recognized college credit for same. Such courses are regular correspondence courses and are administered under the Cooperating College Program of USAFI.

Inquiries concerning In-Service training should be directed to the Registrar. Evaluations of this training will not be made until such time as the student registers for residence credit on the University Campus.

### GRADUATE AND PROFESSIONAL STUDENTS

Professional and graduate programs will have requirements in addition to those stated above. The interested applicant is directed to the appropriate sections of the catalogue.

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.

## 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. Students who are granted special permission to pursue such a program will be classified as irregular students.

## CHOICE OF SCHOOL OR COLLEGE

For a full explanation of each of the divisions of the University consult the section of the catalogue referring to that particular college or school. A student should register in the school or college in which his major interest lies.

If a student is undecided on his college or school, he should register in the College of Arts and Sciences.

In order to transfer from one school or college to another it is necessary to secure permission of the dean in whose school the student is enrolled and the permission of the dean of the school to which he expects to transfer.

DEGREES OFFERED BY COLLEGES AND SCHOOLS  
OF THE UNIVERSITY

The University offers courses of instruction leading to the following degrees:

1. In the Graduate School the advanced general degrees of Master of Arts, Master of Science, and Doctor of Philosophy and the advanced professional degrees of Master of Business Administration, Master of Education, Master of Forestry, Master of Accountancy, Master of Home Economics, Master of Art Education, Master of Music Education, Master of Landscape Architecture, Master of Laws, Master of Fine Arts, Master of Agricultural Extension, and Doctor of Education.

2. In the College of Arts and Sciences, the degrees of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science, Bachelor of Science in Chemistry, and Bachelor of Science in Physics.

3. In the School of Law, the degree of Bachelor of Laws.

4. In the School of Pharmacy, the degree of Bachelor of Science in Pharmacy.

5. In the College of Agriculture, the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Agricultural Engineering, Bachelor of Science in Landscape Architecture, and Bachelor of Landscape Architecture.

6. In the School of Forestry, the degree of Bachelor of Science in Forestry.

7. In the College of Education, the degree of Bachelor of Science in Education.

8. In the College of Business Administration, the degree of Bachelor of Business Administration.

9. In the School of Journalism, the degree of Bachelor of Arts in Journalism.

10. In the School of Home Economics, the degree of Bachelor of Science in Home Economics.

11. In the School of Veterinary Medicine, the degree of Doctor of Veterinary Medicine.

A student who satisfactorily completes advanced Military or Air Science may be awarded a commission as Second Lieutenant in the U. S. Army or U. S. Air Force in conjunction with the degree.

A graduate of any program may receive the baccalaureate degree of any other program by completing the additional studies required in that program and by meeting residence requirements for the second baccalaureate degree.

### 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, except by special permission, after the expiration of the fifth 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.

### PHYSICAL EXAMINATIONS

All new students (freshmen, transfers and former students who have been absent from the University for over three quarters) must have a fully completed physical examination form on file with the Student Health Service at least ten days prior to registration.

The physical examination performed by the student's family physician within three months prior to registration should include a report of a tuberculin test or x-ray of chest. Only if the tuberculin test is positive, is an x-ray of chest required. The opinion of the examining physician as to physical capability of student to participate in ROTC and/or Physical Education is desired.

Those students entering for summer session only are not required to submit physical examination forms.

The University Registrar will send the physical examination blanks with the notification of acceptance for admission. After the student's family physician has fully completed these forms, they must be mailed to the Student Health Service, Gilbert Memorial Infirmary.

### ORIENTATION

The opening week of the fall quarter registration period in September is called "Orientation Week." It is a period designed to introduce freshmen and transfers to the University. This period will be devoted to aptitude tests, lectures, conferences with advisers, introduction to campus activities, and registration. This week is set aside for students who attend all scheduled events.

### PLACEMENT EXAMINATIONS

These tests are required of all students with less than sophomore classification (40 academic hours exclusive of Physical Education and Basic Military). All students taking these tests late will be charged a late test fee of \$3 for each session missed.

## STUDENT HOUSING

### GENERAL

Residence halls at the University of Georgia accommodate approximately 5,000 students. Another 1,200 students live in fraternity and sorority houses.

More than 3,000 rent rooms, apartments, or houses in the city of Athens, and approximately 330 student families live in University married student housing.

Inquiries concerning student housing should be addressed to the Director of University Housing. The Housing Office, located on the second floor of the Academic Building, maintains office hours from 8:30 a.m. to 5:00 p.m., Monday through Friday, and 8:30 a.m. to 12:00 o'clock noon on Saturday.

A. **HOUSING APPLICATIONS.** Applications for single men's and women's housing are mailed to new students along with their official notice of acceptance to the University. Students who are returning to the University after having been absent for a quarter or more, or who have not lived in University residence halls the preceding quarter, may secure an application from the Director of University Housing.

B. **FEES AND DEPOSITS.** If the quarter for which a student applies for housing is to be his first quarter at the University, or if he is returning to the University after an absence of a quarter or more, he is required to pay an advance room reservation deposit equal to the housing fee of the residence hall for which application is made. (For rates, see sections "Residence Halls for Men" and "Residence Halls for Women.") *Exception: no advance deposit required for summer.*

With the exception of the fall quarter, students who lived in University residence halls the preceding quarter and who wish to continue residence therein are not required to pay an advance deposit. For the fall quarter, however, students in this category pay an advance deposit of \$25.00.

Students living in off-campus housing who apply to move into University housing must pay the advance deposit of \$25.00 regardless of the quarter for which application is made.

Deposit payments must be in the form of checks or money orders made payable to the University of Georgia and must be submitted along with the housing application. No assignment will be made until the appropriate deposit has been paid.

The amount of the paid room deposit is deducted from room charges at the time of registration.

At the time a student checks in at a University residence hall, he is required to pay a \$1.00 key deposit which is refundable upon return of his key at the end of the school year. Key deposits are not refundable if not claimed by June 30 following the termination of the school year.

C. **CANCELLATION OF APPLICATIONS.** Of the room reservation deposits described above, \$25.00 is non-refundable and non-transferable. The balance is refundable under the following conditions:

Cancellation notices regarding residence hall applications must be submitted in writing to the Director of University Housing. In order for an applicant to receive a refund of any portion of his room reservation deposit his cancellation notice must be postmarked not later than June 30 for fall quarter, November 30 for winter quarter, or February 28 for spring quarter. If the notice is delivered in person, it must arrive at the Housing Office not later than 5:00 p.m. on the dates listed.

D. **STUDENT RESPONSIBILITY FOR OCCUPANCY.** If a student who has been assigned to a University residence hall does not appear to occupy his space 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 space to another student. Once a student accepts an assignment, he is obligated for the full quarter's rent. Failure to occupy the space for the

full quarter, except in the case of withdrawal from the University, does not release him from this obligation. Payment for a residence hall space 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. Nor is a refund made to a student who is dismissed or suspended from a residence hall for disciplinary reasons.

**E. STUDENT RESPONSIBILITY FOR DAMAGES.** The University holds resident students responsible for any damages that occur to their rooms and furnishings. Damages will be assessed by the University and the student will be billed for repairs or replacements. Students should inform University officials of any damages which exist at the time they occupy their rooms.

**F. REFUNDS UPON WITHDRAWAL.** Students withdrawing from the University automatically forfeit the first \$25.00 of their room rent. The remainder of the room rent is refunded in accordance with the following schedule: (a) 80 percent if withdrawal is made within one week after scheduled registration date; (b) 60 percent if within one to two weeks; (c) 40 percent if within two to three weeks; and (d) 20 percent if within three to four weeks. No refunds are made after four weeks from the date of scheduled registration. Neither is a refund of rent made to any student who is suspended or expelled from the University for disciplinary reasons. Checks for refunds are mailed at the end of the quarter.

**G. ROOM FURNISHINGS.** Student rooms are equipped with single or double decked beds, chairs, study tables, clothes closets, and dressers or chests of drawers. Students furnish their own pillows, linens, blankets, towels, lamps, rugs, etc. Cooking appliances, sun lamps, electric irons, and air conditioners may not be used in the bedrooms.

**H. RESPONSIBILITY FOR STUDENT POSSESSIONS.** Although every precaution is taken to maintain adequate security, the University cannot assume the responsibility for the loss of or damage to student possessions.

**I. ASSIGNMENT PREFERENCES.** Applicants are given the opportunity to indicate on their housing applications their preferences for specific residence halls and roommates. These preferences will be honored providing that, 1) space is available in the requested hall, 2) students requesting to room with each other mail their applications and room reservation fees in the same envelope, and 3) the requests do not require that exceptions be made to existing assignment procedures. Students who do not receive their preferences should inquire about schedule of room changes from their residence hall counselors or house directors after the quarter commences.

**J. ELIGIBILITY TO LIVE IN FRATERNITY OR SORORITY HOUSES.** Both men and women students must be of sophomore standing or above before they are eligible to live in fraternity or sorority houses. It is further required of women students that they live in University residence halls for one quarter, regardless of their classification, before moving to a sorority house.

**K. ASSIGNMENT OF SINGLE OCCUPANCY.** Except where specifically indicated, residence hall room rates are based on occupancy of two or more students per room. The Director of University Housing reserves the right, however, to grant or to assign single occupancy at his discretion.

**L. LAUNDRY SERVICE.** Included in the quarterly charge for residence halls is a fee for limited flat work laundry services. The University provides weekly pick-up and delivery services to the residence halls. Laundry service for wearing apparel is available at an additional charge.

**M. BOARD.** The University has no compulsory food service plan. How-

ever, three cafeterias where balanced meals may be obtained are located near the residence halls. Quarterly rates vary with the length of the quarter. For fall quarter (which is the longest) the rates are \$123 for two meals a day and \$160 for three. Meals may also be obtained on a pay-as-you-go basis.

Refunds for meal tickets upon withdrawal are made on an unused ticket basis.

Local chapters of national fraternity and sorority organizations also provide meals for their memberships.

**N. OFF-CAMPUS HOUSING.** A list of available rentals in town is maintained in the University Housing Office. Because of the rapid renting of facilities, however, plus the desire of the University that students inspect facilities before entering into an agreement with a householder, lists are not mailed to inquirers. The University does not approve off-campus housing facilities, but it reserves the right to require any student to move to a new place of residence when it is felt to be in his or the University's best interest. In such instances rental adjustments are required. Normally, students are expected to remain in a rental for a minimum of one quarter.

**O. NOTIFICATION OF ASSIGNMENTS.** Assignments for the fall quarter are mailed to new students on or about August 15. These assignments will consist of building designations only. Roommate and room assignments will be available upon arrival at the assigned residence hall on opening day.

Assignments for the winter and spring quarters are mailed to new students on or about December 1 and March 1 respectively.

**P. OPENING AND CLOSING OF RESIDENCE HALLS.** University residence halls open at 10:00 a.m. on the day prior to the first day of orientation and close at 10:30 a.m. the day after the last scheduled examination at the end of a quarter. For official holidays which occur during the course of a quarter, the University reserves the right to close certain halls and to require students remaining on campus to move to another hall for the duration of the holiday period.

**Q. RESERVATION OF RIGHT TO CHANGE FEES AND REGULATIONS.** The University reserves the right to make judicious and discrete changes in its fees, charges, rules, and regulations at the beginning of any quarter and without previous notice.

## RESIDENCE HALLS FOR MEN

All freshmen, excluding veterans, married men, and those living with their parents or relatives, are required to live for one year in a University residence hall under the supervision of the Residence Counselor for Freshmen Men. Those who plan to live with close relatives must submit a written request to do so and have it approved by the Dean of Men.

North campus residence halls for Men are Clark Howell, Joe Brown, Morris, Candler, Milledge, Payne, Reed, Lipscomb, and Mell. Freshmen are usually housed in Candler, Milledge, Payne, and Reed. The room rate for all of these halls is \$80.00 per quarter. The rate for single occupancy, if available, is an additional \$25.00 per quarter.

South Campus halls for men are Dudley, Fain, Griggs, and Tucker. Each of these halls houses upperclass men students. Room rates are from \$67.00 to \$80.00 per quarter. Single occupancy in South Campus halls is on the same basis and rate as on North Campus.

### RESIDENCE HALLS FOR WOMEN

All women students must live in a University residence hall or sorority house except the following: married students, graduate students, students twenty-three years of age and older, students living at home with their parents, and those students who have parental permission to live with close relatives. (Written permission must be submitted to the Dean of Women for approval prior to the beginning of the students' first quarter in residence) *See page 78, paragraph J, for qualifications for living in sorority house.*

The residence halls which are available to women students are as follows: Mary Lyndon, Rutherford, Soule, Boggs, Church, Hill, North Myers, Center Myers, South Myers, Lucy Cobb (temporary housing), and Creswell Hall.

The room rate for each of the women's residence halls is \$80.00 per quarter. Students who are assigned to a suite at their own request are charged an additional \$5.00 per quarter. Single occupancy is an additional \$25.00 per quarter.

### MARRIED STUDENT HOUSING

A. **PRE-FABRICATED UNITS.** Rates for these temporary residences vary from \$25.00 to \$32.00 per month, depending upon whether the unit rented is an efficiency apartment, or one, two, or three bedroom unit. These rates are for unfurnished apartments with water. Additional utilities are extra. Furniture may be rented from the University on a piece by piece basis at a very reasonable rate.

B. **PERMANENT TYPE UNITS.** The first permanent type housing for married students was completed early in 1964. All air conditioned and electrically heated, these unfurnished one and two bedroom apartments rent for \$60.00 and \$72.00 a month, respectively. Included in these rates are water and kitchen stove and refrigerator. Each unit has a separate electric meter, and the student is billed once a month for the electricity consumed. Furniture for these units is also available, if desired, on an individual piece basis.

C. **APPLICATION PROCEDURE.** Applications for married student housing may be secured from the Director of University Housing. Although married students may make application for housing before they are admitted to the University, assignment will not be made until they have been notified of their official acceptance.

D. **ASSIGNMENT PROCEDURE.** Assignment to married student housing is made from a waiting list which is established according to the date applications are received by the Director of University Housing. Priority is given to those families with children.

E. **DEPOSIT.** A security deposit in the amount of \$25.00 is required of each student tenant at the time he receives the key to his housing unit. The University reserves the right to use all or any part of the security deposit to defray cost of cleaning the unit, repair of any damage, payment of any unpaid University bills, or replacement of equipment belonging to the University. The full \$25.00 less any necessary deductions will be refunded to the tenant at the end of his occupancy.

### PROGRAMS FOR VETERANS AND WAR ORPHANS

The Division of Placement and Student Aid advises with former servicemen and women eligible for benefits under Public Law 894 or Public Law



550 and War Orphans eligible for benefits under Public Law 634. Public Law 894 assists disabled veterans, and Public Law 550 provides for veterans who entered the Service prior to January 31, 1955, and who initiated a program of education before the delimiting date, which is three years after release from the service. Veterans entering the University for the first time under Public Law 550 should secure a Certificate for Education and Training from the Veterans Administration. Public Law 634 provides for children of veterans who died of a disease or injury incurred or aggravated in line of duty in active military service in World War I, World War II, or the Korean War. Eligible persons should secure a Certificate for a Program of Education from the Veterans Administration.

The veteran or war orphan is advised to have money available to cover his first quarter's expenses at the time he enters school, as government subsistence checks will not arrive for two or three months after his program begins.

## 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. In figuring numerical averages the Registrar's Office uses the digit 8 for + grades and 3 for the letter only. The scale of letter grades is as follows:

A+	95-100	Exceptional
A	90- 94	Excellent
B+	85- 89	Very Good
B	80- 84	Good
C+	75- 79	Average
C	70- 74	Fair
D+	65- 69	Poor
D	60- 64	Very Poor
E		Condition
F		Failure
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.

### CHANGE 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. No re-examinations are given in the School of Law.

### 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 40 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 40 hours; as a junior when he has completed at least 85 hours; and as a senior when he has completed at least 130 hours.

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

REGISTRATION FOR COURSES. Any student classified as a junior or senior must give priority at registration to all uncompleted freshman and sophomore courses required for his degree before continuing the major subjects or electives.

### COURSE NUMBERS

Courses numbered from 1 to 99 are either non-credit or remedial courses; those numbered from 100 to 199 are designed for freshman and sophomore (junior division) students; those numbered 200 to 299 are mainly sophomore courses but, in special instances when justified by course and curricular requirements, may be given senior division (junior and senior) classification. Courses numbered 300 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 undergraduate and 600 to 799 for graduate students. Courses numbered 800 to 999 are offered only for graduate students.

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. Veterans must carry 14 hours per quarter to draw full subsistence.

## 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. Except in special cases, a student will not be permitted to drop to a load less than 15 hours. A student who drops to less than 15 hours after the first five days of a quarter will normally receive a grade of WF in the course or courses dropped.
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, be graduated 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 90 quarter hours. At least 45 quarter hours must be in senior division courses with not less than 30 hours of such courses in the senior year. Exceptions to this requirement may be made under special circumstances upon the recommendation of the curriculum committee of the school or college and with the approval of the Faculty Executive Committee.

Students who present acceptable college credits earned before September 1960, or who are enrolled for a second baccalaureate degree, may satisfy the residence requirements by completing in residence 45 hours in courses numbered 200 and above with an average grade of "C" or better.

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 or the Georgia Institute of Technology for his last year's work in the University, the residence requirement is 45 quarter hours, 30 quarter hours of which must be in courses numbered 200 and above taken after admission to senior division standing.

Students under the B.S. Medical Technology Program will not be required to have 90 hours in residence but must have 45 hours of Senior Division credit in residence in the College of Arts and Sciences.

**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 Physical Education 1-2, and must not have grades below "C" in more than one-fourth of the total number of quarter hours earned.

Ten quarter hours of English composition with an average grade of C (73) is required for all undergraduate degrees from The University of Georgia. (This applies to all students entering in September 1956 and thereafter.)

Students inadequate in English composition must repeat English 101. Students who fail English 101 are required to retake it the following quarter or as soon thereafter as possible.

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. Work taken at the off-campus centers is classified as extension.

**MILITARY AND AIR SCIENCE.** All physically qualified freshman male students must enroll in and complete two years of basic ROTC with the exception of veterans, non-citizens, and those otherwise exempted. The basic courses are Military Science 1-2 or Air Science 5-6. Having initiated basic ROTC at the University or at another college, the student is responsible for the completion of six quarters of basic ROTC.

**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 enter the University with Senior division standing and who have fulfilled the physical education requirements of the institution from which they transferred will not be required to take Physical Education 1 and 2.

**EXAMINATIONS 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 those Constitutions, are given annually on the first Tuesday after Washington's birthday and the first Thursday after the Fourth of July, at 3:30 in LeConte Hall. 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.

**EXAMINATIONS ON UNITED STATES AND GEORGIA HISTORY.** Examinations on the history of the United States and of Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with this history. These examinations are ordinarily given with the freshman placement tests at the beginning of each fall quarter. Also, this requirement may be satisfied by registering for History 100 and passing the final examination in it. This course carries five hour credit.

**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 college 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

**STUDENT VEHICLES.** Freshman students residing on campus are not permitted to operate or possess an automobile in Clarke County. All other students may purchase parking permits which will permit parking in specified zoned areas. These permits are valid for the school year. All vehicles operated on campus are subject to the existing University Traffic Regulations. The right of a student to operate and/or possess a vehicle is considered by the University to be a privilege which may be revoked for cause at any time.

**HIGH SCHOOL SUBJECTS NOT TO BE DUPLICATED.** No University credit will be granted for work in mathematics or other courses, except for the special provision applicable to foreign languages, taken at the University when such work is a repetition of studies already completed in high school. A student continuing a foreign language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.

**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 RESIDENT 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. Veterans receiving benefits

must notify the Director of Placement and Student Aid of course load reductions.

**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 freshman designated on the basis of Placement Tests. Designated freshmen will not be admitted to the 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 his 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.

**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 a student whose conduct is deemed improper or prejudicial to the interests of the University community. The University further reserves the right to ask the withdrawal of any student involved in a court case, pending the trial.

**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 proper University officials. A student withdrawing from the University is expected to secure his parents consent. Veterans receiving allowances under any of the acts of Congress must also notify the Director of Placement and Student Aid. 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 10 hours\* of work, with a grade of "C" or better, shall be placed on scholastic probation for his next quarter in residence. A student remains on scholastic probation until he passes 15 quarter hours\* of work with a "C" or better

\*Exclusive of basic military or air science and physical education.

grade in at least 10 hours during one quarter in residence. 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. A student who is on probation shall not be allowed to register for a Fall Quarter.

**DISMISSAL.** A student shall be dismissed if (1) he fails to pass 5 hours of academic work in a quarter, (2) if he is on probation and fails to pass 10 academic hours of work in a quarter, or (3) if he is on probation for two successive quarters and fails to remove himself from probation during the second probational quarter. In the administration of these rules, a student who is dismissed for the first time may, with the approval of his Dean and upon satisfactory completion of readmission tests at the University Guidance Center, return on probation any quarter except a fall quarter.

If under the operation of these rules a student should be dismissed a second time, such student may not again be admitted as a candidate for a degree. This regulation shall not, however, constitute a bar to said student's admission to particular courses after the lapse of a time interval sufficient to obtain evidence that his scholastic disabilities have been overcome.

Students who decline, after consultation with appropriate ROTC and University officials, to fulfill the terms of their ROTC deferment agreements pertaining to undergraduate work at the institution will be permanently dismissed immediately.

**ADMISSION TO ANOTHER COLLEGE OR SCHOOL.** A student dismissed from one college or school within the University 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.

**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.

**ELIGIBILITY FOR STUDENT ACTIVITIES.** Twelve hours per quarter is the minimum normal load for any student participating in student activities.

A student is not eligible to participate in any major student activity, represent the University or student body in any official capacity or serve as an officer of any student organization unless he has passed a minimum of ten quarter hours of academic work in the previous quarter.

Students participating in intercollegiate athletics must in addition meet all scholarship requirements of the Southeastern Conference.

Students on social or conduct probation or warning may be restricted from participation in general student activities or social life by the Dean of Men or the Dean of Women.

## 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. 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 of A or A+.

### INDEPENDENT STUDY

A junior or senior student of superior scholastic standing who wishes to pursue independent study in a particular subject may do so upon the recommendation of his major professor and the approval of the Executive Committee of the College of Arts and Sciences.

### VALEDICTORIAN

Not more than 45 quarter hours taken at other institutions may be used in determining eligibility for valedictorian. The student with the highest academic average at the University is named valedictorian of his class.

### 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

Near 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, Phi Kappa Phi, Sigma Xi, or who have obtained other scholastic honors.

### UNDERGRADUATE SCHOLARSHIPS, HONORS, AWARDS AND PRIZES

Unless otherwise specified these scholarships, honors, awards, and prizes are open to both men and women. Scholarships available to entering Freshmen are preceded by an asterisk (\*). Application for scholarship should be filed with the Scholarship Committee, in care of the Director of Placement and Student Aid, unless otherwise stated.

**BURKE DOWLING ADAMS ADVERTISING SCHOLARSHIP.** A tuition scholarship covering three quarters open to juniors and seniors majoring in advertising in the School of Journalism. Apply to Dean of School of Journalism.



**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 Engineers.

**ALPHA GAMMA RHO SCHOLARSHIP.** This award of \$200 is made to a Freshman boy in agriculture, forestry, veterinary medicine, agricultural engineering, or agricultural education and is given to the 4-H boy ranking highest in scholarship from the candidates nominated annually by each State 4-H Club Leader.

**ALPHA KAPPA PSI SCHOLARSHIP KEY.** The Alpha Kappa Psi national commerce fraternity awards annually a scholarship key to the male graduating senior in the College of Business Administration who has the highest scholastic average for four years of college work, at least two years of which must have been done at the University of Georgia.

**ALPHA LAMBDA DELTA AWARD.** Each year National Alpha Lambda Delta gives a book of outstanding value to the member of Alpha Lambda Delta who has held the highest average during eleven quarters at the University of Georgia.

**ALPHA XI DELTA "OUTSTANDING SOPHOMORE WOMAN" AWARD.** A traveling trophy awarded by Alpha Xi Delta Sorority each year to the group sponsoring the winning candidate in the contest to select the outstanding sophomore woman on the basis of scholarship, activities, character, and leadership.

**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 recommendation. For information on these scholarships, prospective applicants should write the Dean of the School of Pharmacy.

**ART ADVANCEMENT FUND.** A limited number of scholarships are awarded annually from the Fund for the Advancement of Art. The recipients of the awards are selected by a committee composed of members of the art faculty and a representative of the students.

**\*ATHENS BUSINESSMEN'S SCHOLARSHIPS.** Several tuition scholarships for Athens, Clarke County, and vicinity residents. These include: ATHENS FEDERAL SAVINGS AND LOAN ASSOCIATION, FRED BISHOP MEMORIAL, DICK FERGUSON, HARRY LOEF, NORMAL HARDWARE, ROBERT E. POSS AND MALCOLM CORNELISON MEMORIAL.

**\*ATLANTA FEDERAL SAVINGS SCHOLARSHIP.** Two annual awards of \$500 each to graduates of Atlanta, DeKalb, and Fulton County High Schools. One scholarship to freshman entering Business Administration; the other to a senior in Business Administration. Awarded on basis of scholarship and financial need.

**\*ATLANTA PAN-HELLENIC SCHOLARSHIP.** Tuition scholarship to senior woman student (not necessarily sorority). Awarded on basis of scholarship, financial need, and character by a committee organized through Dean of Women. Apply to Dean of Women, University of Georgia.

**\*BAND SCHOLARSHIP.** The University, in cooperation with the Athletic

Association, provides a limited number of scholarships to persons playing in the University Band. Recipients are chosen by the Band Director.

**BLUE KEY SCHOLARSHIP FUND.** Established in 1952 the income from this fund is to be used for scholarships as the Blue Key Honor Society, with the approval of its faculty advisor, directs. The fund is administered by the University of Georgia Foundation.

**BORDEN AGRICULTURAL AWARD.** A \$500 annual award to the senior in College of Agriculture with the best scholastic average who has taken two or more Dairy courses. Selected by Dean of the College of Agriculture.

**BORDEN HOME ECONOMICS AWARD.** A \$300 annual award to the senior in the School of Home Economics who made the highest average in her junior year and who has completed certain prescribed courses in Foods and Nutrition.

**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 *Copy-right Law*. Selection is made by the Law faculty.

**THE M. F. BYRD AWARD.** The name of the veterinary student who shows the most progress during his first year in the School of Veterinary Medicine is inscribed on a plaque. The award is in memory of M. F. Byrd, a member of the Veterinary Class of 1961, who died in his first year as a veterinary student. Selections by members of the Veterinary Faculty who instruct first year students.

**CALLAWAY SCHOLARSHIP.** One scholarship awarded in the amount of \$500 to a Junior with a scholastic rank in the upper third of his class majoring in Business Administration. Award is renewable for senior year provided the student has maintained a scholastic rank in the upper third of his class.

**THOMAS D. CAREY AND J. C. C. BLACK, JR., MEMORIAL FUND.** Established in 1957, by will, by Merial Black Carey in memory of her husband and her brother as a perpetual fund, the income from which is used to enable deserving young men from the Academy of Richmond County or the Junior College of Augusta to attend the University. The fund is administered by the University of Georgia Foundation.

**CASTLEBERRY FOOD COMPANY SCHOLARSHIP.** Established by the Castleberry Food Company, Augusta, Georgia, this scholarship of \$250 is to be awarded to a deserving student majoring in food technology.

**CHEROKEE SCHOLARSHIP.** Tuition scholarship for a Boy Scout from North-east Georgia District.

**CHI OMEGA PRIZE.** The Mu Beta Chapter of Chi Omega Sorority offers a prize of \$25 to the outstanding woman student in sociology, economics, psychology, and political science in rotating order. For the year 1963-64

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.

**CHI PSI AWARD.** The National Chi Psi Fraternity gives \$200 annually to the outstanding student member of the local Chi Psi Fraternity. The committee making the selection is composed of a representative from the Dean of Men's Office and two alumni of the local chapter.

**\*COATS & CLARK SCHOLARSHIP.** A \$500 annual scholarship given by Coats & Clark, Inc., to an entering freshman with first priority going to an employee or the son or daughter of an employee and second priority to a resident of a community in which the company operates a plant.

**HUGH MOSS COMER SCHOLARSHIP.** Eight scholarships of \$400, one each year for general excellence in 4-H Club work. Awards made through State 4-H Club office.

**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 is made by Head of the History Department in consultation with the instructor of the class in Georgia History.

**DAIRY SCHOLARSHIPS.** Scholarships ranging from \$200-\$300 a year are available for upperclass students in the Dairy field. These include: DAIRY QUEEN OF GEORGIA, FOREMOST DAIRIES, SOUTHERN DAIRIES, BORDEN SANCKEN COMPANY, KINNETT DAIRIES, GEORGIA CRACKERS, WELLS DAIRY COOPERATIVE, GEORGIA MILK PRODUCERS CONFERENCE AND MORGAN COUNTY CREAMERY.

**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.

**DEBATE SCHOLARSHIP.** One state matriculation fee scholarship awarded to an entering freshman who will participate in the debating program. Apply through regular freshman scholarship program.

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

**DELTA AIRLINES SCHOLARSHIP IN AERONAUTICAL ADMINISTRATION.** Credited in 1951 by a principal gift of \$5,000 from Delta Air Lines, Inc., it is administered by the University of Georgia Foundation and provides for an annual award of \$300 to a selected student majoring in Business Administration, available for both junior and senior years for the winner.

**DELTA DELTA DELTA 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 PHI EPSILON "OUTSTANDING FRESHMAN" AWARD.** An annual award of \$100 and a trophy to the girl or boy judged the year's "Outstanding Freshman" by the University of Georgia Chapter of Delta Phi Epsilon.

**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.

**LAMAR DODD AWARD.** 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.

**\*DURR-SCHAFFNER SCHOLARSHIP.** Mr. and Mrs. Roy Durr, Durr-Schaffner Poultry Company, give each year one scholarship of \$1600 for a student in poultry husbandry. The scholarship is for four years, \$400 each year, provided the recipient maintains the necessary scholastic average.

**A. S. EDWARD AWARD.** An annual award consisting of a certificate and key to the student chosen for excellence of scholarship, meritorious conduct, service to the Psychology Department, and future promise as a scholar. This award was established by the University of Georgia Chapter of Psi Chi to honor Austin Southwick Edwards, Head, Department of Psychology, 1916 to 1951.

**FABRO SCHOLARSHIP FOR VETERINARY MEDICINE SENIORS.** A scholarship of \$250 to be given to a senior student in good standing in the School of Veterinary Medicine to be chosen by the Dean.

**P. W. FATTIG SCHOLARSHIP.** The Georgia Entomological Society sponsors the scholarship in memory of one of its most distinguished charter members. The fund is administered by the University of Georgia Foundation and the interest will be used as tuition scholarship for one or more junior or senior students majoring in entomology. Selection will be made by a committee headed by the Head of the Department of Entomology.

**THE FELTON FUND.** This fund was established by the will of Rebecca Latimer 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.

**GEORGIA FORD TRACTOR SCHOLARSHIP.** Two annual \$700 scholarships and two annual \$500 scholarships to outstanding juniors and seniors in agricultural engineering.

**\*GEORGE RUSH FRANKLIN SCHOLARSHIP.** Income from trust fund established by Desiree L. Franklin in memory of her brother to provide student scholarships with preference to be given residents of Augusta, Georgia.

**\*JOHN AND MARY FRANKLIN SCHOLARSHIPS.** Twenty \$300 scholarships for 4-H Club members or former members. For entering freshmen, transfers, or students presently enrolled at the University. Must work at Rock Eagle as a counselor in the Summer Camping Program. See the County Agent or Home Demonstration Agent for information.

**\*FRESHMAN SCHOLARSHIPS.** Up to one hundred competitive scholarships are awarded entering freshmen each year. The value of each scholarship is \$252.00, covering fees of \$84.00 per quarter. Selection is made by the Freshman Scholarship Committee. Apply by February 1.

**\*GAINESVILLE-MIDLAND RAILROAD SCHOLARSHIPS.** Five awards of \$500 each to Poultry majors from Clarke, Jackson, and Hall Counties. Apply to Head of Poultry Department.

**\*GARDEN CLUB OF GEORGIA SCHOLARSHIP.** \$100 each per quarter to a selected freshman and a selected upperclassman in landscape architecture. Apply to Head of the Department of Landscape Architecture.

**\*GENERAL MOTORS SCHOLARSHIPS.** Two awards annually to entering freshmen, amount determined on basis of student need. Four year renewal

option. Apply to the University Scholarship Committee by February 1.

**\*GEORGIA POWER COMPANY SCHOLARSHIP.** Awarded to students who are residents of Georgia for outstanding service in the field of Agriculture.

**\*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 the Dean of the School of Journalism.

**LT. JOEL HIRSCH GOLDBERG MEMORIAL FUND.** Established in 1954 by the B'nai B'rith Women of Atlanta in memory of Lt. Joel Hirsch Goldberg, son of their founding president, and an alumnus of the University, this fund provides an annual state tuition award to a deserving student. Selection is made by the University Scholarship Committee.

**JAMES COFFEE HARRIS AWARD.** A cash award to a junior student in the School of Home Economics as selected by a faculty committee on the basis of superior grades in Home Economics and English who is in need of financial assistance.

**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.

**ROBERTA HODGSON LOAN AND SCHOLARSHIP FUND.** Created in 1955 by Miss Roberta Hodgson to provide, out of income, scholarships for, or loans to, gifted students in need of financial assistance. The fund is administered by the University of Georgia Foundation.

**DEAN'S AWARDS IN HOME ECONOMICS.** Two annual awards of \$100 each for excellence in the sophomore and freshman years, respectively, and superior promise in Home Economics.

**HOMELITE FORESTRY SCHOLARSHIP.** Annual award of \$500 to junior or senior in School of Forestry on basis of Scholarship and leadership. Apply to Dean, School of Forestry.

**HORTICULTURAL CLUB SCHOLARSHIP.** \$50 award to an upperclass student who has exhibited qualities of leadership and promise in the field of Horticulture.

**HOWARD JOHNSON'S.** Two \$500 annual scholarships given by Howard Johnson's Dixie Division to one junior and one senior in the Colleges of Business Administration or Arts and Sciences. Selected as a junior with contract for summer employment and renewable for senior year.

**INTERFRATERNITY COUNCIL SCHOLARSHIP.** An annually awarded state tuition scholarship which goes to a sophomore boy selected by a committee on the basis of his freshman scholastic record, his participation in campus activities, and his financial need.

**EARL JENKINS MEMORIAL AWARD.** Established by Mrs. Gladys Beach, this is an annual award of \$100 to an outstanding junior in the School of Forestry.

**SALLIE MAUDE JONES SCHOLARSHIP.** One-third of the net income under the will of Miss Sallie Maude Jones is set up for the purpose of aiding needy and deserving girls in the College of Education: Selection is made by a committee from the College of Education.

**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 member of University faculty.

**KAPPA DELTA.** An annual scholarship to cover state matriculation fee for an upperclass woman student. Given by Sigma Phi Chapter of Kappa Delta.

**GEORGE D. KITZINGER HONORARY AWARD.** The most outstanding 4-H Club boy and 4-H Club girl as named by the State 4-H Club office share equally the annual income from a fund set up by George D. Kitzinger for Georgia 4-H Clubs.

**\*KROGER COMPANY SCHOLARSHIP.** Two scholarships of \$250 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. Selection is made by the Dean of the College of Agriculture and the Dean of the School of Home Economics. File application with the University Scholarship Committee by February 1.

**\*JOSEPH RUCKER LAMAR SCHOLARSHIP.** A committee from Richmond Academy, Augusta, Georgia, awards scholarships annually to students attending the University of Georgia in Athens.

**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.

**LEDERLE LABORATORIES SCHOLARSHIP.** An annual award of \$1,000 for the senior student in Veterinary Medicine, showing the most promise of becoming a research worker in animal diseases.

**JESSIE AND DAN MACDOUGALD MEMORIAL FUND.** The Dan MacDougald Memorial Fund was created on August 24, 1953, by gifts from friends, associates and family of Dan MacDougald, first honor graduate of the Law Class of 1910, to benefit the School of Law and honor Mr. MacDougald's memory. Upon the death of Mrs. Dan MacDougald in 1957, it was decided to honor her also and the name of the Fund was changed accordingly. The Fund is administered by The University of Georgia Foundation and provides for an annual cash award of the net income to the first honor graduate of the School of Law.

**HAMILTON MCWHORTER PRIZE.** Hamilton McWhorter of the Class of 1875 and his family provided for an annual award to that member of the Freshman Class of the University selected from the group having the highest scholastic average for the year's work on the basis of service and leadership as demonstrated by participation in campus activities.

**\*MARBUT MILLING COMPANY SCHOLARSHIPS.** Five annual \$400 awards to students majoring in poultry. One award for best scholastic record in each of the four classes (freshman, sophomore, junior, senior), and one additional scholarship to any one of the four classes. Apply to Head of the Poultry Department.

**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.

**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.

**MORTAR BOARD SCHOLARSHIP.** An annual tuition award to a woman student selected at the end of sophomore year for use in her junior year. Based on scholarship, character, and financial need. Apply to Scholarship Committee.

**\*MUSIC SCHOLARSHIPS.** The Music Department offers to outstanding students majoring in music a limited number of scholarships varying from private lesson charges to state tuition charges. These include scholarships for band, string, piano, and voice.

**JENNIE BELLE MYERS MEMORIAL.** Annual award to the upperclass woman student best exemplifying the qualities of graciousness and character as remembered in Mrs. Jennie Belle Myers.

**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.

**PHI DELTA PHI PRIZE.** Wilson Inn, the local chapter of Phi Delta Phi Legal Fraternity, presents annually to that member of the first year law class who makes the highest average during his first year a prize consisting of law books selected by the Inn.

**PHI KAPPA PHI SCHOLARSHIP.** A \$100 award to the freshman student with the highest scholastic average for the first year's work at the University who returns to school the following Fall Quarter for the sophomore year.

**\*POULTRY SCHOLARSHIPS.** Awards of \$200 are made to entering freshmen on the basis of their high school record and who wish to major in Poultry Husbandry in college. Selection is made by the Poultry Department. These include the following individual scholarships: BISHOP HATCHERY, CHEMELL'S HATCHERY, COTTON PRODUCER'S ASSOCIATION, JESSE JEWEL INCORPORATED, J. H. JOHNSON & SONS, PIEDMONT FEED COMPANY, PIEDMONT POULTRY COMPANY, STRAIN FEED & COAL COMPANY, THEO STIVERS, A. W. THOMPSON HATCHERY, VANTRESS FARMS, SOUTHEASTERN HATCHERIES.

**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.

**RALSTON PURINA COMPANY SCHOLARSHIP.** An annual \$500 scholarship awarded to the outstanding senior in the College of Agriculture.

**RAYONIER CORPORATION SCHOLARSHIP.** Three annual awards of \$500 to Seniors, one each from Arts and Sciences, Business Administration, and Forestry.

**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.

\*REFRIGERATED TRANSPORT COMPANY AND ITS OPERATORS SCHOLARSHIPS, (Limited to 35 North Georgia counties.) A total of \$6,400 is provided for four scholarships of \$1,600 each to cover four years. Open to Poultry Majors. Apply to Head of the Poultry Department.

\*REGENTS' SCHOLARSHIP. Sponsored by and subject to approval of the Board of Regents, a scholarship program to which any full-time, degree seeking student who is a resident of the State of Georgia and is in the top 25% of his class may apply. Amount varies from \$250 to \$1,000, depending on need as established by College Scholarship Service. Number selected depends upon funds available. Apply by April 1.

THE NEEL REID MEMORIAL SCHOLARSHIP IN LANDSCAPE ARCHITECTURE. 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 who has shown outstanding proficiency in landscape design. The stipend is \$500.

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.

NITA BLACK RUCKER MEMORIAL FUND. Established in 1949 by Nellie Rucker, Walter and Lamar Cobb Rucker for the benefit of Exchange Students from Germany. The fund is administered by the University of Georgia Foundation.

HORACE RUSSELL PRIZE IN PSYCHOLOGY AND ETHICS. The late Judge Horace Russell established an annual prize of \$50 to be awarded to the student who writes the best essay on a subject in the field of either Psychology or Ethics. The prize is given in these fields in alternating years. Essays are judged by members of the faculty of the Departments of Psychology or Philosophy and Religion.

ST. REGIS PAPER COMPANY SCHOLARSHIP. Open to forestry students who have completed the sophomore year including the summer camp program. Selection is made by a Regional Committee on the basis of scholastic achievement and leadership. The scholarship is valued at \$800 each for a junior and a senior student.

\*SAVANNAH SUGAR REFINING CORPORATION SCHOLARSHIP. An award of \$250 to a student majoring in food technology, first preference for an entering freshman and a second choice to a junior transfer student.

JESSE 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.

\*SEARS, ROEBUCK FOUNDATION SCHOLARSHIPS. Annual Scholarships of \$300 awarded to entering freshmen in the College of Agriculture and the School of Home Economics.

THE HENRY A. SHINN MEMORIAL AWARD. The Alexander H. Stephens Chapter of Phi Alpha Delta National Legal Fraternity annually presents



a certificate and a \$25 Government Bond to the Student writer of the best legal article published during the year. The award is given in honor of Dr. Henry A. Shinn, an esteemed member of the law faculty for many years.

**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 advisor of the chapter, and one alumni member. In addition, Sigma Delta Chi awards annually certificates of distinction to those graduates of the School of Journalism who rank 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 provisions of the donations. These scholarships range in amounts from tuition and fees to all necessary expenses to attend the University.

**ROBERT STRICKLAND AGRICULTURAL MEMORIAL AWARD CLUB SCHOLARSHIPS.** Two annual awards of \$400 each to juniors or seniors majoring in Agricultural Economics who have a genuine interest in economics of agriculture and have maintained a high scholastic average.

**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.

**TEXACO SCHOLARSHIPS.** From one to four scholarships awarded annually by Texaco, Inc., to male students in scientific or engineering fields relating to the petroleum industry who have successfully completed two years of college, have need of financial assistance, and are American citizens.

**\*LAMAR TROTTI, JR., SCHOLARSHIP.** An annual scholarship of \$300 awarded to a worthy student of Tallulah Falls School, Tallulah Falls, Georgia, to attend the University of Georgia. Recipient is named by a committee composed of members of the Young Matrons Circle for Tallulah Falls School, Atlanta, Georgia.

**UNION BAG-CAMP PAPER CORPORATION.** A \$500 annual scholarship to a junior in the College of Business Administration, preferably majoring in Industrial Accounting, and planning to make a career in industry. Renewal for senior year.

**UNIVERSITY THEATRE—JUNIOR ARTIST-IN-RESIDENCE SCHOLARSHIP.** Two all expense one year scholarships for foreign students in Speech and Drama, jointly sponsored by the Georgia Rotary Students Fund and by Interfraternity Council for a boy and Panhellenic Council for a girl. Selection made by the Department of Speech and Drama.

**\*UNIVERSITY THEATRE-THALIAN-BLACKFRIARS SCHOLARSHIP.** Two state tuition scholarships are awarded each year to outstanding high school seniors for study in Speech and Drama. Selection is made by the Department of Speech and Drama.

**THE WILLCOX PRIZE IN FRENCH.** This prize was founded in 1896 as a memorial to their father by the sons of Professor Cyprian Porter Willcox,

who, from 1872 until his death in 1895, filled with great distinction the chair of Modern Foreign Languages at the University. It will be offered to a student who has, in the opinion of the department, achieved excellence in French at the intermediate level. The nature of the award will be announced by the Department of Modern Foreign Languages during the course of the academic year.

**THE WILLCOX PRIZE IN GERMAN.** Offered to a student who has, in the opinion of the department, achieved excellence in German at the intermediate level. The nature of the award will be announced by the Department of Modern Foreign Languages during the course of the academic year.

**R. C. WILSON AWARD.** Created in 1947 by I. Z. Harris of the class of 1915 in honor of Robert C. Wilson, Dean Emeritus of the School of Pharmacy, this annual award of at least \$50 goes to the "outstanding Pharmacy senior" elected by Pharmacy students. This fund is administered by the University of Georgia Foundation.

**W. S. G. A., LOYALTY AWARD.** The Women's Student Government Association Loyalty Award is given each spring to that woman who while not holding a W. S. G. A. office has been the most outstanding in demonstrating her loyalty to the University and its highest ideals.

**WOMEN'S STUDENT GOVERNMENT SCHOLARSHIP.** An annual tuition award to a woman student on the basis of scholarship, financial need, and character.

**XI SIGMA PI AWARD.** 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.

**"Z" CLUB AWARD.** Tuition scholarship for outstanding Freshman for Sophomore year.

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 counseling and guidance services for all its students. Each academic dean, either personally or through appointed assistants, guides each student in his academic problems, especially in the arrangement of schedules, the completion of degree requirements, problems about probation, and other matters of an academic nature.

Counseling, other than academic, is centered in the Division of Student Affairs. The Dean of Men and the Dean of Women and their staffs are concerned with the personal problems of students. University Housing assists all students with matter relative to their living quarters. The Coordinator of Religious Activities assists the Religious Foundation Directors in working with students who have personal problems of a religious and spiritual nature. The Guidance Center aids students in resolving educational, vocational, and personal problems on the basis of aptitudes, interests, and personal information, and of job opportunities available. It offers counseling in the improvement of reading and study skills, maintains records of all placement and other special tests, and helps the student through personal counseling to implement decisions based upon his needs and characteristics. The office

of Placement and Student Aid offers financial and placement services to all students, especially to seniors and those seeking work either on or off the campus. This office also assists veterans in educational planning and maintains liaison with the Veterans Administration. Health problems are the responsibility of the University Physician, and the Health Service staff is available on a 24-hour basis. The Psychology Clinic and the Speech and Hearing Clinic offer counseling services in addition to those provided by the Division of Student Affairs.

All counseling services are available to students who voluntarily request them, or who are referred by faculty members and officials. All counseling services work in cooperation, and counselors take the responsibility of helping the student find the service which best fits his needs.

The University attempts to maintain close personal association between the students and the faculty members. 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 Student Health Service 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, known as Gilbert Memorial Infirmary.

The physicians in the infirmary are on duty from 8:30 A. M. to 5:00 P. M. week-days and until noon on Saturdays. Members of the nursing staff are on duty at all times and will contact the physician on call, after duty hours, as needed. Physical examinations are to be taken with the home physician and sent to the infirmary two weeks prior to the opening of the quarter in which the student is first enrolled. Students needing medical care are seen as expeditiously as possible. Emergencies are seen at once. Students requiring hospitalization are admitted and treated in the infirmary, except for some illnesses and for surgical operations. A charge of \$2.50 per day is made at the infirmary to cover costs 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 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 of serious illness, 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 his home physician.

All students are urged to carry some form of Health Insurance. A special plan is available at a cost of \$17.00 a year which covers much of or in most instances all the costs of illness or injury. All foreign students must avail themselves of some form of Health Insurance approved by University officials. Details and application forms are available at the Gilbert Memorial Infirmary.

### 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 entertainment. 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 Department of Art presents a series of art lectures and exhibitions throughout the year. These are open to the entire University and community.

The Art Students League sponsors student trips, exhibitions of student work and, in cooperation with the Department of Art, an annual auction of faculty and student work, the proceeds of which are placed in the Fund for the Advancement of Art.

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

The Department of Music presents each Thursday evening the Music Appreciation Hour, a series of programs featuring faculty members, advanced students, and guest artists. Originated in 1927 by the former head of the department, Dr. Hugh Hodgson, and open to the public without charge, these chamber music concerts are offered each year as a cultural contribution to the community and surrounding areas.

Other music activities include the Men's Glee Club, the Women's Glee Club, the University Chorus, the Symphony Orchestra, the University Band, and an annual opera production.

#### 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, 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, 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), Agricultural Club (for agricultural students) and Pioneer Club (for women). Throughout the year intersociety debates and orations arouse considerable interest.

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 two of a campus-wide nature, *The Red and Black* (bi-weekly newspaper) and *Pandora* (the University yearbook). 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), *The Georgia Pharmacist* (quarterly publication in the School of Pharmacy), and *The Southeastern Veterinarian* (quarterly publication of the School of Veterinary Medicine).

### STUDENT CENTER

The Student Center in Memorial Hall conducts a wide variety of recreational programs and activities. The Center 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, television, and radio. Special musical and film programs and student socials are offered.

### RELIGIOUS ORGANIZATIONS

Students are afforded opportunity to participate in religious activities both on the campus and in the community of Athens. Religious organizations are sponsored by all of the major faiths and denominations, many of them maintaining student religious centers near the campus. The Student Center Director works as a coordinator with the directors of the student religious centers and assists them with special projects in promoting major religious events for the campus.

### 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 adequate social functions during the year.

### FEES AND EXPENSES

**APPLICATION FEES:** New students applying for admission to the University must send \$10 with the application. DO NOT SEND CASH, make check or money order payable to University of Georgia. This fee covers the expenses involved in processing the application. The fee will not be credited toward the matriculation fee in the event the applicant is accepted, and is not refundable under any circumstances. An applicant who fails to enroll for the quarter for which he is accepted must re-apply for admission, if he wishes to enter the University at a later date and will be required to send an additional \$10 fee with his application.

**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 \$77.50.

**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 \$115 in addition to the regular matriculation fees charged resident students.

**MATRICULATION FEE FOR FORESTRY STUDENTS.** Students taking professional work in forestry are required to pay \$3 more per quarter than regular students. Students who are residents of Georgia must pay a quarterly fee of

\$80.50 and non-residents students are required to pay a non-resident tuition fee of \$115 in addition to the \$80.50 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 \$90 and non-resident students are required to pay a non-resident tuition fee of \$115 in addition to the \$90 charged resident students.

**MATRICULATION FEE FOR MUSIC MAJORS.** Students majoring in music are required to pay \$45 more per quarter than regular students. (This covers private lessons, rental of instruments, practice and locker fees.) Students who are residents of Georgia must pay a quarterly fee of \$122.50 and non-resident students are required to pay a non-resident tuition fee of \$115 in addition to the \$122.50 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 \$105, and non-resident students are required to pay a non-resident tuition fee of \$115 in addition to the \$105 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 \$6.50.

**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 \$6 for each quarter hour, except students in Law whose rate is \$8 per quarter hour; those in Veterinary Medicine whose rate is \$9 per quarter hour; and those majoring in Music whose rate is \$10 per quarter hour: Basic military and physical education each shall count as 2 hours per quarter in assessing fees. In addition to the quarter hour matriculation rates charged to resident students, non-resident students must pay a non-resident tuition fee of \$10 for each quarter hour of work taken.

**MATRICULATION FEE FOR ATLANTA AREA TEACHER EDUCATION SERVICE PROGRAM.** Students taking courses in the Atlanta area Teacher Education Service Program must pay a matriculation fee of \$9 for each quarter hour.

**MATRICULATION FEE FOR OFF-CAMPUS WORKSHOPS.** Students taking Graduate Courses off-campus must pay a matriculation fee of \$9.60 for each quarter hour. These workshops are entirely self-supporting, therefore, no refunds will be made to students who withdraw.

### REQUIREMENTS TO REGISTER AS A LEGAL RESIDENT

In order to register as a legal resident of Georgia at the University of Georgia, a student must establish the following facts to the satisfaction of the registering officer.

- (a) A student who is under 21 years of age at the time he seeks to register or re-register at the beginning of any quarter will be accepted as a resident student only upon a showing by him that his supporting parent or guardian has been legally domiciled in Georgia for a period of at least twelve months immediately preceding the date of registration or re-registration.
- (b) In the event that a legal resident of Georgia is appointed as guardian of a non-resident minor, such minor will not be permitted to register as a resident student 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.

- (c) If a student is over 21 years of age, he may register as a resident student only upon a showing that he has been domiciled in Georgia for at least twelve months prior to the registration date.

Any period of time during which a person is enrolled as a student in any educational institution in Georgia may not be counted as a part of the twelve months' domicile and residence herein required when it appears that the student came into the State and remained in the State for the primary purpose of attending a school or college.

- (d) A full-time faculty member in an institution of the University System, his wife, and minor children may register for courses on the payment of resident fees, even though the faculty member has not been in residence in Georgia for a period of twelve months.
- (e) If the parents or legal guardian of a minor changes residence to another state following a period of residence in Georgia, the minor may continue to take courses for a period of twelve consecutive months on the payment of resident fees. After the expiration of the twelve months' period the student may continue his registration only upon the payment of fees at the non-resident rate.
- (f) Military personnel stationed in Georgia, and their dependents, may become eligible to enroll in institutions of the University System as resident students provided they file with the institution in which they wish to enroll the following materials:
- (1) A statement from the appropriate military official as to the applicant's "home of record";
  - (2) Evidence that applicant, if over 21 years of age, is eligible to vote in Georgia;
  - (3) Evidence that applicant, if under 21 years of age, is the child of parents who are eligible to vote in Georgia;
  - (4) Evidence that applicant, or his parents, filed an income tax return in Georgia during the preceding year;
  - (5) Other evidence showing that a legal domicile has been established in Georgia.
- (g) Foreign students who attend institutions of the University System under the sponsorship of recognized civic or religious groups may be enrolled upon the payment of resident fees, provided the number of such foreign students in any one institution does not exceed the quota approved by the Board of Regents for that institution.
- (h) All aliens shall be classified as non-resident students; provided, however, that an alien who is living in this country under a visa permitting permanent payment of resident fees, provided the number of such foreign students in any one institution does not exceed the quota approved by the Board of Regents for that institution.
- (i) Teachers in the public schools of Georgia and their dependents may enroll as students in University System institutions on payment of resident fees, when it appears that such teachers have resided in Georgia for nine months, that they were engaged in teaching during this nine months' period, and that they have been employed to teach in Georgia during the ensuing school year.
- (j) In the event that a woman who is a resident of Georgia and a student in an institution of the University System marries a non-resident of the State, the woman will continue to be eligible to attend the institution on payment of resident fees, provided that her enrollment is continuous.
- (k) If a woman who is not a resident of Georgia marries a man who is a resident of Georgia, the woman will not be eligible to register as a resident in a University System institution until she has been domiciled in

State of Georgia for a period of twelve months immediately preceding the date of registration.

- (1) Non-resident graduate students who hold assistantships that require at least one-third time service may register as students in the institution in which they are employed on payment of resident fees.

**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.

There are no laboratory breakage deposit fees as such. However, students will be held responsible for any breakage they cause.

**ARMED SERVICES UNIFORMS, FEES, AND TEXTBOOKS.** Students enrolling in the Army or Air Force ROTC will be furnished uniforms through the University as outlined below:

a. Basic Cadets:

- (1) Basic course students are issued necessary uniforms and equipment on a loan basis. These uniforms will be retained by the cadet throughout the basic course, ROTC. All uniforms must be turned in to the ROTC uniform department, Hardman Hall, by the cadet upon completion of the basic course ROTC, or when he drops or is dropped from the Army or Air Force ROTC.

- (2) Basic cadets are required to make a \$50.00 uniform deposit at the Treasurer's Office in the Academic Building at the time of registration. A fee of \$13.50 will be deducted from this amount to cover a \$2.50 account fee; \$2.50 for alterations, laundry and cleaning, \$6.50 for shoes and socks, and \$2 for the year book. This will be a one time deduction so long as the deposit remains with the University.

- (3) Shoes and socks will become the property of the cadet upon issue, but all cadets are reminded that this will be the *only* issue his freshman and sophomore years.

b. Advanced Cadets:

- (1) Advanced cadets are issued "made to measure" uniforms upon entry into the Advanced Course. These uniforms become the property of the cadet if he receives his commission while at the University of Georgia. If he does not receive a commission, drops from school, or transfers to another school which does not have advanced military training, he must turn in all uniforms.

- (2) Rank insignia, cap insignia and lapel insignia will be issued to the advanced cadet on a loan basis. All insignia must be returned to the supply section upon completion of the course, or upon leaving the University for any reason.

- (3) Advanced cadets are required to make a \$90 uniform deposit at the Treasurer's Office in the Academic Building at the time of registration. A fee of \$4.50 is deducted from the amount to cover \$2.50 account fee and \$2 for the year book.

c. Charges:

All cadets are held personally responsible for all textbooks, uniforms, and equipment, and they must provide proper care and safeguards



for these items. The cadet concerned will be assessed for the cost of any item lost, destroyed, or mutilated.

d. Refund of Deposits:

Any refunds due to cadets on deposits will be made as soon as practicable after the cadet finishes the course or withdraws from the University. These refunds will be made by the Treasurer's Office, after certification of the property custodian, that the cadet's account has been settled and the amount is due.

### 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' check or money orders and to deposit these in a local bank.

### SPECIAL FEES AND CHARGES

**SERVICE CHARGES 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.

**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. All records prior to the Summer, 1950 have been microfilmed; transcripts of these records are \$1 each, payable with the request.

**GRADUATION FEE**—The graduation fee is \$10.00 for undergraduate, \$10.00 for masters, \$25.00 for doctors degree, and \$13.00 for graduates of the School of Veterinary Medicine. This fee covers diploma cost and the rental of cap and gown. The doctors fee also includes cost of hood. The Certificate of American Studies for Foreign Students fee is \$5.00.

**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 is \$5.

### 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; within a period from one to two weeks after the scheduled registration date, 60 per cent; within a period from two to three weeks after the scheduled registration date, 40 per cent; and within a period from three to four weeks after scheduled registration date, 20 per cent.

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 the quarter.

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

Students who leave the University when disciplinary action is pending or has been taken, or who do not formally withdraw, are not eligible for a refund.

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 \$900 to \$1200. 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, music 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 insufficient 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 must be made at least one month before the quarter in which funds will be needed and should be filed by July 1 for the ensuing year.

In the following alphabetical list the category of students eligible for the loan is indicated:

**O. C. ADERHOLD FUND.** Students in the University.

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

**ALPHA ZETA FUND.** Members of the Alpha Zeta Fraternity.

**ALUMNI ASSOCIATION FUND.** The College of Agriculture.

**PRESTON S. ARKWRIGHT FUND.** The College of Agriculture.

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

- ATHENS LIONS CLUB. Students of the University.  
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.  
JOHN D. BOLTON, JR. MEMORIAL FUND. Preference to members of the Kappa Alpha Fraternity.  
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.  
BERNICE 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.  
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.  
CLASS OF 1926. The University.  
OBADIAH LEWIS CLOUD FUND. The University.  
MRS. J. H. CLOUDMAN FUND. The College of Agriculture.  
LUCY COBB INSTITUTE FUND. Women students who have been residents of Georgia for at least twelve months.  
E. T. COMER FUND. The University, preference to be given students from rural sections.  
D. A. R. ELIJAH CLARK 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.  
THE DAWSON FUND. The College of Agriculture and the School of Home Economics.  
W. S. DENMARK FUND. Men of the University  
EUGENE AND HARRY DODD FUND. The University.  
DRUID HILLS METHODIST MEMORIAL EDUCATIONAL FUND. The University.  
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.  
CHARLES W. FORD FUND. The College of Agriculture.  
FORESTRY LOAN FUND. The School of Forestry.  
FOUR-H CLUB FUND. The College of Agriculture.  
FRESHMAN Y COMMISSION FUND. Freshman women of the University.  
EBB W. GALLAHER. Men in the University.  
GEORGIA A. & W. P. RAILROAD FUND. The College of Agriculture.

- GEORGIA BANKERS ASSOCIATION LOAN FUND. Men and women in Agriculture, Veterinary Medicine, Domestic Science, and the related arts.
- GIRLS CANNING CLUB FUND. Juniors and seniors in the School of Home Economics.
- JAMES C. HARRIS FUND. Men and women students in the University.
- W. NORRIS HARRIS MEMORIAL FUND. Men and women students in the University.
- FRANK HAWKINS FUND. The College of Agriculture.
- HAROLD M. HECKMAN, JR. FUND. Students in the University.
- A. L. HULL MEMORIAL FUND. The University.
- J. H. HUNT FUND. Men and women students of the University, preferably from North Georgia.
- JEFFERSON HIGH SCHOOL LOAN FUND. Jefferson High School graduates.
- 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.
- J. B. KEOUGH FUND. The College of Agriculture.
- CLYDE L., JR., AND JOHN KING LOAN FUND. Men students of the University.
- KIRKWOOD P. T. A. FUND. The College of Agriculture.
- 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.
- 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.
- MISCELLANEOUS FUND. Students in the University.
- THOMAS E. MITCHELL FUNDS. Men and women students of the University.
- MOON LOAN FUND. Men and women students of the University.
- NATIONAL DEFENSE EDUCATIONAL ACT FUND. Students in 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.
- J. T. PITTARD MEMORIAL. Students in the University.
- 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.
- JAMES D. ROBINSON FUND. The College of Agriculture.
- SHAMROCK SYSTEM LOAN FUND. Students of the University.
- S. D. V. FRATERNITY FUND. The College of Agriculture.
- 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.
- STUDENT VETERANS LOAN FUND. Veterans in 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.  
 MAX THURMOND FUND. School of Forestry.  
 FRANCIS C. TUCKER FUND. Women in the University.  
 LEILA BATES TYE FUND. Home Economics 4-H girls.  
 UNION BAG-CAMP PAPER CORPORATION. Juniors, Seniors and Graduate Students in the School of Forestry.  
 LOUIS WELHOUSE 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.  
 CHARLES C. WILSON MEMORIAL FUND. Foreign students in the University.  
 ROBERT W. WOODRUFF FUND. The College of Agriculture.  
 IDA A. YOUNG FUND. Women students of the University.

### 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:

#### KNIGHTS TEMPLAR EDUCATIONAL FOUNDATION

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

#### THE NATIONAL BETA FUND

*Mr. John W. Harris, Secretary, P.O. Box 730, Spartanburg, South Carolina.*

#### PICKET AND HATCHER EDUCATIONAL FOUNDATION

*Mr. Guy E. Snavely, Jr., Executive Secretary, P. O. Box 1238, Columbus, Georgia*

#### ROTARY EDUCATIONAL FOUNDATION OF ATLANTA

*Mr. Richard P. Smith, Chairman, 603 Forsyth Building, Atlanta, Georgia.*

#### STUDENT AID FOUNDATION

*Mrs. Hazen Smith, Executive Secretary, 1025 Clairmont Avenue, Decatur, Georgia*

#### JOHN T. HALL STUDENT LOAN FUND

*Mr. Henry C. Smith, Trust Company of Georgia, Atlanta, Georgia.*

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

### NATIONAL DEFENSE EDUCATION ACT LOAN PROGRAM

The University of Georgia is participating in the loan program sponsored by the U. S. Department of Health, Education, and Welfare. Funds are available to students who can demonstrate need in line with the provisions set forth in the act which became law in 1958. Priority is given to those students who are preparing to teach in public schools, first, and to those with superior ability in science, mathematics, modern foreign languages, and engineering, second. Applications may be secured from the Office of Placement and Student Aid.

### STUDENT EMPLOYMENT

The Division of Student Affairs maintains through the Office of Placement and Student Aid a student employment service, the purpose of which 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, some academic departments, and in town. Employment assistance is given also to wives of students.

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 Student Aid Office 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 schedule 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.

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 assists 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 and Student Aid also maintains a Summer Placement Bureau which assists students and graduates to locate summer work with camps, resorts, and industry. Students and graduates should contact the Placement Bureau if they are interested in summer work. For placement information write to the Director of Placement and Student Aid.

## THE GEORGIA CENTER FOR CONTINUING EDUCATION

More and more university graduates, undergraduates, and Georgia citizens who have had no previous contact with institutions of higher education are looking to the University for specific programs to meet personal and business needs for continuing education. The University administration recognizes this need for credit and non-credit programs on campus and throughout the state as one of its major functions. The Georgia Center for Continuing Education is the administrative unit through which most of the non-agricultural service programs are directed.

The Georgia Center building on the campus provides, in addition to the administrative offices for the program, living quarters and conference rooms for approximately 300 adults as well as the studios and workrooms for the University's educational television, WGTV—Channel 8.

The Center constantly evaluates its various programs and designs new services, working closely with the participating groups and the University faculty. Because the program of the Center is an integral part of the University service it can and does draw on the full resources of the University.

## PROGRAM

The Center is headed by a Director who supervises the over-all operation, with associate directors for the major divisions of Instructional Services, Communications Services, and Managerial Services.

## INSTRUCTIONAL SERVICES

## CONFERENCES AND INSTITUTES

The colleges and schools of the University conduct conferences and institutes to assist groups of adults who wish to keep informed about the latest developments in their respective fields of interest. Most of these conferences and institutes are co-sponsored by business, professional or social organizations. Members of the University faculty and outside specialists offer instruction, conduct lectures and demonstrations and act as consultants. Public announcement is made from time to time regarding programs of this type to 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 annual Reading Conferences. For several years the Georgia Congress of Parents and Teachers has held an Institute here in June.

The School of Journalism and the Georgia Press Association have conducted, in February, a Press Institute for the editors of the papers of the state and a Broadcasters Institute for radio and television.

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 interested persons on request.

Other meetings held at the Center are the Institute of the Woman's Club, organization management of the Chamber of Commerce, Teacher Education Council and conferences for those engaged in insurance work, estate planning, pharmacy and other professional fields. One of the most important areas of work is with municipal and state officials and employees.

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 Georgia Center for Continuing Education, The University of Georgia, Athens, Georgia, 30601.

## UNIVERSITY CENTERS AND EXTENSION CLASSES

As an extension of its regular credit program the University operates centers in Albany, Gainesville, Marietta, Rome, Warner Robins and Waycross, along with the Athens Evening Program on campus. Extension classes are offered wherever as many as 15 students desire a particular course. Regular college credit courses taught by approved instructors are offered at these off-campus locations, as well as special non-credit programs tailored to the needs of the people of the area.

Regular academic subjects are scheduled quarterly, primarily during evening hours. Entrance requirements and course content are identical with the standards that apply on the campus. The faculty is approved by the department concerned and by the Dean of Faculties. Students satisfactorily completing these classes receive credit on transcripts issued by the University Registrar.

Fees for all Continuing Education credit programs are based on a rate of \$7 per quarter hour. Since most of the classes are scheduled for five quarter hours each the usual fee is \$35 per course. A registration fee of \$1 per academic quarter is charged all students in the Centers.

Special certificate courses have been authorized in General Business and in Accounting. Students may elect the courses in these two sequences for two-year terminal programs, omitting some of the normal requirements of the freshman and sophomore years in the usual baccalaureate program. Quarterly bulletins are issued at each Center and are available on request.

### HOME STUDY

The Center also conducts an extensive Home Study program, including undergraduate college courses and supervised high school study. Each course is conducted by a college faculty specialist in the subject. Home Study also directs reading programs and the Recording for the Blind service. A Home Study bulletin is available on request.

### SPECIAL SERVICES

The Center's librarian maintains two libraries in the building, procures materials needed for programs in the Center and on TV and works with all off-campus locations to build their library resources.

A number of specialized programs are also offered for off-campus groups. These include the Drama Loan Library, Film Library, an annual Traveling Art Exhibit and the United Nations Information Service. Special consultants in Music Education, Pharmacy, and Veterinary Medicine are available for community projects.

### COMMUNICATION SERVICES

Communications Services is primarily concerned with the operation of the University's educational television station, WGTV. The station offers four hours of adult programming each Monday through Friday evening on Channel 8. In cooperation with the State Department of Education WGTV also offers day-time television service to public schools throughout the northern half of the state. The same pattern is followed on WXGA-TV which serves southeast Georgia from a site near Waycross, and on WVAN-TV serving the coastal plains area from Pembroke, Georgia. The latter two stations are operated by the State Department of Education, while the University of Georgia, through the Georgia Center's Communications Division, is responsible for the evening programming.

The Communications Division serves the conference program at the Georgia Center and the total University with occasional stage productions called docudramas, provides audio visual service and operates the University film library. The Division's art staff provides graphic art service to the total Center program and handles all exhibits in the Center.

### MANAGERIAL SERVICES

Managerial Services is responsible for the business management of the Center and its statewide services.

## INSTITUTE OF COMMUNITY AND AREA DEVELOPMENT

The Institute serves a research-service-education function. Through the Institute the total resources of the University are made available to state, area, and local agencies confronted with problems of community and area



growth, adjustment, and development. Specialists from a large number of fields such as economics, business, resource identification and utilization, sociology and government frequently work together as a team seeking solutions to these complex problems. This is done through research on community and area problems; provision of factual information; special studies in communities and areas; help in evolving over-all community and area programs; technical and consultative services on special programs; assistance in organizing and conducting leadership seminars; and organizing and conducting forums and other educational meetings.

Activities frequently involve contractual arrangements between the University and some responsible local organization. Personnel involved in these activities are primarily University faculty, staff, and graduate students. Thus, research and service opportunities are often afforded to faculty and advanced students while Georgia's areas and communities benefit from the services of experts in their respective fields.

## 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 Trustees and an Advisory Faculty Committee appointed by the President of the University control the publishing policies and supervise the work of the University Press. The director is Ralph H. Stephens.

### MIMEOGRAPHING

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

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

DIRECTOR: M. Tyus Butler

ASSOCIATE DIRECTOR: William M. Crane

FIELD REPRESENTATIVE: Robert J. Richardson

The University of Georgia Alumni Society was organized in 1834 and has been continuously active since that time. Its purpose is to keep graduates and former students of the University interested in and in touch with one another and also to encourage them to manifest a continued interest in the University. The Alumni office has now on file folders and address cards of approximately 40,000 living alumni.

All persons who at any time were matriculated as regular students in the University at Athens are eligible for membership in 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, in the Academic Building, to confer with the Staff, and to learn about the general work of the Society. Parents (non-alumni) and friends are welcomed as associate members.

The government of the Society is in the hands of a Board of Managers elected by the active 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 UNIVERSITY OF GEORGIA 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 forty-two alumni elected from various classes and sections of the state. In addition there are seven trustees emeritus.

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 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 Mr. Inman Brandon, President; Mr. Francis M. Bird, Vice President; Mr. Philip H. Alston, Jr., Secretary; and Mr. Arthur Montgomery, Treasurer. Information regarding the Foundation may be obtained from Inman Brandon, President, Sixth Floor, First National Bank Building, Atlanta 3, or from the President of the University.

The following funds are administered by the University of Georgia Foundation. In addition there are funds listed under Undergraduate Scholarships, Honors, Awards and Prizes which are administered by the Foundation.

**THE UNIVERSITY OF GEORGIA FOUNDATION UNRESTRICTED FUND.** The earned income from the unrestricted portion of the University of Georgia Foundation Fund goes primarily to the supplementing of salaries of outstanding professors on the University campus.

**JOHN J. WILKINS MEMORIAL FUND.** Established in 1941 by John J. Wilkins, Jr., as a memorial to his father for the maintenance of Camp Wilkins.

**MEMORIAL GATEWAY FUND.** Established in 1945 by the class of 1921 to erect a memorial.

**M. G. MICHAEL AWARD FUND.** Established in 1946 by Leroy and David Michael in honor of their father to provide an annual award to some member of the faculty of the College of Arts and Sciences for excellence in research.

**ARTHUR LUCAS MEMORIAL FUND.** Established in 1946 by Mrs. Margaret C. Lucas in memory of her husband to promote research and study in audio-visual education.

**THE ROBERT BROWN FUND.** Created in 1956 in memory of Robert Brown (who, after graduating in 1941, gave his life for his country in World War II) to encourage scholarship in, and to provide for lectures for the School of Law at the University.

**THE FERDINAND PHINIZY LECTURESHIP FUND.** Established in 1949 by Dr. F. P. Calhoun in memory of his grandfather, to provide from income, for lecture by persons of national renown.

**PHI DELTA THETA MEMORIAL FUND.** Established in 1949 to provide funds to be lent to the fraternity to finance its chapter house.

**THE CRESWELL RESEARCH FUND.** Established in 1951 in honor of Miss Mary E. Creswell. The income from this fund must be employed either for family grants, for graduate research, or for acquisition of equipment for use in research, in the School of Home Economics.

**B. SANDERS WALKER MEMORIAL FUND.** Established in 1952 by B. Sanders Walker as a memorial to his father and grandfather. The income from the fund may be used to benefit the University as the Trustees of the Foundation determine.

**ANN McWHORTER MEMORIAL FUND.** Established in 1956 by Dr. William B. McWhorter in memory of his daughter. The income is to be used to supply books and periodicals for the libraries at the University.

**THE RAYONIER FOUNDATION GRANT.** Established in 1956 to supplement the regular compensation of the Dean of the School of Forestry for ten years.

**FORESTRY FUND.** Established in 1957 by the Forestry Alumni Association to benefit the School of Forestry and students attending that school.

**SIGMA CHI FUND.** Established in 1959 to provide funds to be lent the fraternity to finance its chapter house and for scholarships .

#### FUNDS ESTABLISHED WITHIN THE ALUMNI SOCIETY

**CLASS OF 1960 FUND.** Established in 1960 by officers of that class. Earned income will be used to provide tuition scholarship for a sophomore in memory of Coach J. B. Whitworth.

**CLASS OF 1961 FUND.** Established in 1961 by officers of that class. Earned income will be used to provide a tuition scholarship for an upper classman.

- CLASS OF 1962 FUND.** Established in 1962 by officers of that class. Earned income will be used for academic programs of the University.
- CLASS OF 1963 FUND.** Established in 1963 by officers of that class for academic use as officers and Alumni Society see fit.
- SNS SCHOLARSHIP FUND.** Established in 1959 by graduates and former students of State Normal School and Georgia State Teachers College. Earned income provides a tuition scholarship for a Georgia resident who is majoring in education at the University of Georgia.
- ROBERT L. MCWHORTER MEMORIAL FUND.** Established in 1960 to honor an outstanding University graduate, athlete, and professor. Earned income will be used for a Law School scholarship.
- ROBERT E. PARK MEMORIAL FUND.** Established in 1961 to honor the former head of the Department of English at the University. Earned income will be used either for a scholarship for an English major or to endow a Chair of English at the University.
- JOHN H. T. MCPHERSON MEMORIAL FUND.** Established in 1961 to honor the former head of the Department of History and Political Science at the University. Earned income will be used to purchase books, periodicals, and other reference material within the fields of American history and political science for placing in the University Library.
- LINVILLE L. HENDREN MEMORIAL FUND.** Established in 1960 in honor of the former head of the Department of Physics and Dean of Faculties at the University. Earned income will be used as a scholarship for a physics major.
- CHARLES H. WHEATLEY SCHOLARSHIP FUND.** Created in 1951 by Charles H. Wheatley, class of 1920, for a scholarship for a physics major.  
(For other Alumni Society Fund references, see Section "Undergraduate Scholarships, Honors, Awards, and Prizes" found on pages 88-98.)

# THE GRADUATE SCHOOL

GERALD BOONE HUFF, B.A., M.A., Ph.D., *Dean*

ROBERT ANDERSON McRORIE, B.S., M.S., Ph.D., *Associate Dean*

## HISTORICAL NOTE

Although the first statutes of the University contemplated resident graduate students, it was the custom here (as it was in many other colleges and universities) to confer the degree of Master of Arts upon any Bachelor of Arts of good character, who, three years or more after graduation, made application for the degree and paid a required fee. This practice continued to be followed until 1868, at which time a course of study was laid down which candidates for the master's degree were expected 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 degree became substantially the same as they are now, though slight modifications have been made from time to time.

Graduate offerings by the University continued to be limited to the master's degree until 1936. Since that time the offering of programs leading to the degree of Doctor of Philosophy in most of the basic fields has been authorized.

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. In 1940 a Graduate Faculty was established with authority to determine the policies and the standards that are to be applied to graduate work in the University.

## GENERAL ADMISSION PROCEDURE

An applicant for admission to the Graduate School should secure from the office 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 must be completed 20 days before the opening of the quarter in which the student wishes to register and should be submitted at least six weeks before registration day. *Two official transcripts* of all courses taken by the applicant in college or university must be sent directly to the Dean of the Graduate School from the Registrar of the institution concerned. These transcripts provide information necessary to the dean and the major department and *must be in their hands before the admission of the student may become final.*

A graduate of an accredited college whose transcript is acceptable is admitted as a *prospective candidate* for the degree for which he applies or may be admitted as a *non-degree candidate*.

Graduates of non-accredited colleges 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 qualifications for regular graduate study.

Only those students who are formally admitted to the Graduate School will be eligible to register in the Graduate School or take graduate courses.

Graduates who have been denied admission to the Graduate School, if registered in the University, will be registered through the undergraduate school or college of their choice and classified as *irregular students*. No irregular student will be permitted to register for graduate courses, and no work taken by a student while under this classification may be counted for credit toward any graduate degree.

Should the work of the irregular student prove to be of such quality as to justify his admission to graduate status, reconsideration may be given to his application for admission at any time after he has completed fifteen quarter hours of approved course work and has taken the aptitude test of the Graduate Record Examination.

Any applicant applying for admission must fill out an Application for Admission to the University and must be admitted by the Director of Admissions subject to the requirement stated under the heading Admissions in the General Information Section.

### REGISTRATION

After a student has been granted admission to the Graduate School and to the University, his next step will be that of registration for his first quarter's work. The University Calendar is printed on page three of this General Catalogue, and this calendar indicates the registration dates for each quarter. The student will begin the process of registration by securing from the Office of the Registrar permission to register. He will then seek the advice of an authorized member of the staff of his major department in planning his work for the quarter and follow the usual procedure in registration. His registration must be approved by the Dean of the Graduate School.

### NUMBERING OF COURSES

Courses numbered 800 and above are open only to graduate students. At least one-third of the program of a candidate for the Master of Arts or Master of Science degree must be in courses in which only graduate students are registered. Certain courses devoted to basic fundamental knowledge carry a 400 number for an undergraduate in the senior division and a corresponding 600 number for a graduate student. Other courses intended primarily for candidates for professional degrees carry a 500 number for an undergraduate in the senior division and a 700 number for a graduate student.

Even though he may have a baccalaureate degree, an irregular student may not register for a course bearing an 800 number and must register by the undergraduate number for any course which he may take.

The normal load for a graduate student is 15 quarter hours. Students holding Graduate Assistantships and Teaching Assistantships are expected to enroll for proportionately smaller loads.

### DEGREES

The Graduate School recognizes the fact that it exists for a two-fold purpose. In the first place, it seeks to promote scholarship that is thorough, creative, independent in character and fundamental in its approach; it emphasizes such scholarship without specific concern with its applications. In the second place, it seeks to provide advanced training of a scholarly and effective kind in the professional and vocational fields represented in the program of the University.

In keeping with the two purposes mentioned above, the work of the

Graduate School is organized under two divisions: A Division of Advanced General Study and a Division of Advanced Professional Study. The degrees awarded upon the recommendation of the Graduate Faculty are likewise classified as Advanced General degrees (Master of Arts, Master of Science, and Doctor of Philosophy) and Advanced Professional degrees (Master of Accountancy, Master of Business Administration, Master of Education, Master of Forestry, Master of Home Economics, Master of Landscape Architecture, Master of Laws, Master of Art Education, Master of Music Education, Master of Fine Arts, Master of Agricultural Extension, and Doctor of Education).

The degrees of Master of Arts, Master of Science, and Doctor of Philosophy may be taken in any field of study represented in the University, provided the nature of the subject matter involved gives appropriateness to the degree concerned and provided the adequacy of faculty and facilities justifies the offering of the degree.

### A. ADVANCED GENERAL DEGREES

**MASTER OF ARTS.** The degree of Master of Arts will be conferred upon candidates who have met the prescribed requirements for this degree with major study in one of the following fields: Business Administration, Economics, Education, Fine Arts, Geography, History, Journalism, Languages and Literature, Law, Mathematics, Mathematical Statistics, Philosophy, Political Science, and Sociology.

**MASTER OF SCIENCE.** The degree of Master of Science will be conferred upon candidates who have met the prescribed requirements for this degree with major study in one of the following fields: Agricultural Economics, Agricultural Engineering, Agronomy, Animal Husbandry, Bacteriology, Botany, Chemistry, Dairy, Entomology, Food Technology, Forestry, Geology, Home Economics, Horticulture, Medical Microbiology, Pharmacy, Physics, Plant Pathology and Plant Breeding, Poultry, Psychology, Statistics, Veterinary Pathology, and Zoology.

**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 Agronomy, Animal Nutrition, Bacteriology, Chemistry, Comparative Literature, Economics, English, Food Technology and Dairy Manufactures, Forestry, Geography, History, Mathematics, Physics, Plant Pathology, Plant Sciences, Poultry Husbandry, Psychology, and Zoology. Other fields will be added from time to time as conditions seem to justify. 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.

The Ph.D. 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 provided 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.

### REQUIREMENTS—MASTER OF ARTS AND MASTER OF SCIENCE

1. **ADMISSIONS.** In order for a student to be given unqualified admission to the Advanced General Division (1) he must have completed the require-

ments for the bachelor's degree in a college accredited by the proper regional accrediting association. (2) he must rank in the upper half of his class in his undergraduate college work, (3) he must have completed the equivalent of our undergraduate major in the general field in which he proposes to do his graduate major, (4) he must have completed at least 90 quarter hours of work (exclusive of his major) appropriately distributed in courses devoted to basic factual knowledge, (5) he must submit scores on the Aptitude Test of the Graduate Record Examination, and (6) his admission must be recommended by the faculty of his prospective major department and approved by the Dean of the Graduate School.

2. LANGUAGE REQUIREMENTS. All candidates for graduate degrees are expected to show correctness and good taste in their use of English, both written and oral. Upon the option of the students' major department, a reading knowledge of a modern foreign language may be required of candidates for Advanced General degrees. (The College of Arts and Sciences requires a reading knowledge of French, German, Russian, or Spanish of students majoring in any of its departments).

3. GRADUATE RECORD EXAMINATION. This examination is required of all students seeking Advanced General degrees. It should be taken during the student's first quarter of residence. The dates on which the examination may be taken are indicated in the Graduate School Calendar.

4. PROGRAM OF STUDY. A candidate for a Master of Arts or Master of Science degree is required to write an acceptable thesis and to complete a program of study consisting of courses carrying a minimum credit value of forty quarter hours. The courses taken must form a logical whole, and at least three must be in courses open only to graduate students. The program of study and thesis plan must be submitted on the proper forms for approval by the student's major professor and the Dean of the Graduate School. This should be completed during the student's second quarter of residence and must be done before the student is admitted to candidacy.

5. ADMISSION TO CANDIDACY. An application for admission to candidacy must be filed with the Dean of the Graduate School before the first day of classes of the student's final quarter of residence. This application is a certification by the student's major department that the student has demonstrated the ability to do acceptable graduate work in his field and that he has made normal progress toward his degree. The specific requirements for admission to candidacy are listed below.

a. Appointment of a member of the Graduate Faculty to act as the student's major professor.

b. Certification by the students' major professor that:

- (1) all prerequisite courses set as a condition to admission have been satisfactorily completed.
- (2) the Graduate Record Examination scores are satisfactory and all other requisite preliminary examinations have been passed.
- (3) foreign language requirements, if specified, have been met, and
- (4) the Program of Study and Thesis Plan have been approved by the major professor and the Dean of the Graduate School.

6. REQUIRED STANDING. An average of B+ must be maintained on the program of study used to satisfy degree requirements, and no grade below C will be accepted.

7. FINAL ORAL EXAMINATION. The candidate must pass a final oral examination covering his course work and thesis. After the thesis has been



approved, the student's major professor will request the Dean of the Graduate School to appoint a committee to conduct this examination.

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

9. **TIME LIMIT.** All work credited toward the master's degree must be completed within six years. Extension of time may be granted only on conditions beyond the control of the individual.

10. **ACCEPTANCE OF CREDIT BY TRANSFER.** Transfer of credit for graduate courses is never automatic. Any program of study for a graduate degree must constitute a logical whole. In cases in which a course taken at another recognized institution does constitute a logical part of the student's program, transfer of credit may be allowed if recommended by the student's major professor and approved by the Dean of the Graduate School. Such transfer of credit cannot exceed ten quarter hours and cannot reduce the residence requirement to less than thirty weeks.

11. **EXTENSION AND CORRESPONDENCE.** Work done in extension or by correspondence will not be credited toward the master's degree.

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

13. **THESIS.** A thesis is required for Master of Arts and Master of Science degrees. It must show that the student has used independence of judgment in developing a problem from primary source materials. It must show correctness and good taste in the use of English and must make due acknowledgement of the work of others. The scholarly investigation and the preparation of the thesis must be under the direction of the student's major professor.

In each department 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 40 hours.

The master's thesis must be approved by the major professor and placed in the hands of the Dean of the Graduate School for a reading committee at least three weeks before the date of graduation. Two bound copies 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 chairman of the reading committee and the Dean of the Graduate School.

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

### REQUIREMENTS—DOCTOR OF PHILOSOPHY

1. **ADMISSION.** A student may be admitted as a prospective candidate for the Doctor of Philosophy degree upon the certification by his major department that he is a person of proper attainment and promise and that the appropriate courses can be adequately given and the research adequately supported and directed. Such admission must be to an authorized field and must be approved by the Dean of the Graduate School.

2. **ADVISORY COMMITTEE.** During the first quarter of residence of a prospective candidate for the Doctor of Philosophy degree, upon recommendation of the candidate's department, the Dean of the Graduate School

shall appoint a committee of three to act as an advisory committee. This committee is charged with planning the student's program of study, arranging his preliminary written and oral examinations, and choosing a subject for his dissertation.

3. RESIDENCE. The granting of this degree presupposes a minimum of three full years of study beyond the bachelor's degree. 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 to provide the equivalent of three quarters of full-time study in residence.

4. PROGRAM OF STUDY. The program of study to be followed by the student should be submitted during the first year of his work as a prospective candidate for the Ph.D. degree. It must constitute a logical whole. All requirements for the degree, except the thesis and the final oral examination, must be completed within a period of six years. This time requirement dates from first registration of the student as a prospective candidate for the Ph.D. degree.

5. PRELIMINARY EXAMINATION. The satisfactory passing of formal preliminary written and oral examinations is required of the student *before admission to candidacy*. These examinations are administered by the student's Advisory Committee and two additional faculty members appointed by the Dean of the Graduate School. The oral examination is open to members of the faculty.

6. FOREIGN LANGUAGES. A reading knowledge of two foreign languages is required of each candidate for the Doctor of Philosophy degree. The recommended languages are English, French, German, Greek, Italian, Latin, Russian and Spanish. The choice of the two languages must be approved by the student's Advisory Committee. Another foreign language may be substituted for one of the recommended languages if it has greater pertinence to the student's program of study. Such a substitution must be recommended by the student's Advisory Committee and approved by the Committee on Advanced General Degrees. No student may elect to use his mother tongue toward satisfying the foreign language requirement for the Doctor of Philosophy degree.

7. ADMISSION TO CANDIDACY. A student may be admitted to candidacy for the degree of Doctor of Philosophy upon (1) approval by the Graduate School of his background training as represented by official transcripts and other evidence; (2) certification by the student's advisory committee that all prerequisite and supporting courses for his program 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, the head of 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.

8. APPLICATION FOR GRADUATION. At the beginning of the quarter in which the candidate expects to be granted the degree, he must file with the Dean of the Graduate School an application for graduation. The applica-

tion must be accompanied by a receipt showing that the candidate has paid his diploma fee of \$25.

9. **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 represent originality in research, independent thinking, scholarly ability, and technical mastery of some field. Its conclusions must be logical, its literary form must be acceptable, and its contribution to knowledge should merit publication.

When the dissertation has been read and approved by the student's major professor and the members of his advisory committee, it may be submitted to the Dean of the Graduate School with a request that a reading committee be set up to represent the Graduate Faculty in passing upon its acceptability. For this purpose three typewritten copies of the completed thesis must be submitted, and this must be done at least four weeks before the proposed date of graduation. When the dissertation has been finally approved, the original copy in manuscript form and one bound copy must be filed with the University Library, and one bound copy with the major department. Each copy must carry a certificate of approval signed by the major professor, the chairman of the reading committee, and the Dean of the Graduate School. For information on the preparation of the thesis, consult the Graduate School Office.

Before the degree will be awarded, the student must file with the Dean of the Graduate School three copies of an acceptable abstract (not more than 500 words) of the dissertation. At the same time, he must file a receipt showing that he has deposited with the Treasurer of the University the amount of \$25 to cover the cost of microfilming the dissertation. If the student desires to have his dissertation copyrighted, he must pay an additional charge of \$5 plus the cost of two positive prints required by the Copyright Office.

10. **FINAL EXAMINATION.** When the candidate's dissertation has been approved and all other requirements of his program have been met, his major professor may recommend to the Dean of the Graduate School that he be admitted to his final oral examination. This examination will be based upon his dissertation and upon the general fields of his program of study. The final examining committee will consist of such persons as may be appointed to it by the Dean of the Graduate School. All final oral examinations will be open to any member of the faculty who may desire to attend.

## B. ADVANCED PROFESSIONAL DEGREES

**MASTER OF ACCOUNTANCY.** This degree is designed to prepare students for professional careers in public accounting or for executive positions in private accounting. It is open to students who hold a Bachelor of Business Administration degree or its equivalent, with at least thirty quarter hours in accounting, including Acc. 110-111. Candidates for this degree must complete an approved program of sixty quarter hours, including thirty hours in accountancy (to be chosen from Acc. 613, 649, 717, 718, 719, 720, 721, 756, 757, 773, 774, 779, 781, 854, 918); twenty hours in general business and economics (to be chosen from the 940 series of core courses in the Master of Business Administration program); and ten hours of electives. At least thirty hours must be in courses open only to graduate students. No thesis is required.

**MASTER OF AGRICULTURAL EXTENSION.** This degree is designed especially for county agricultural extension workers. In addition to the general

Graduate School requirements, one year of field experience in agricultural extension, or its equivalent, is required for admission.

The requirements for the degree, Master of Agricultural Extension, may be met by an approved program of fifty-five quarter hours of course work distributed as follows: Agricultural Extension, ten hours; Agriculture and/or Home Economics, fifteen hours; Social Science, ten hours; Communications, ten hours; and ten hours of electives. In addition, a problems course, Agriculture 921, will be required of all candidates.

**MASTER OF BUSINESS ADMINISTRATION.** This program is designed for the student who desires sound training beyond the bachelor's degree, as preparation for a career in business. Any approved baccalaureate degree may be accepted as the prerequisite for the program. Students who hold the equivalent of the Bachelor of Business Administration degree will be able to complete the program in four quarters of full-time study. Others, depending on the extent of their collegiate background in economics or business administration, may be required to complete from five to forty hours of additional course work in business or economics.

Candidates for this degree must complete for credit an approved program of sixty quarter hours, including all eight of the following: B.A. 940, 941, 942, 943, 944, 945, 946, 947. Forty-five quarter hours must be in the fields of business administration and economics. The remaining fifteen quarter hours may be taken in any department of the University.

**MASTER OF EDUCATION.** This degree is designed for the students whose vocational objectives call for a background of professional training rather than experience in research. A student who contemplates becoming a candidate for this degree should seek the advice of the Chairman of the Division of Graduate Studies of The College of Education as to the program he should follow. This degree may be attained through either of the two following programs of work:

**PLAN A.** The requirement for the degree of Master of Education may be met by the completion of an approved program of 11 courses (55 quarter hours, and residence of a minimum of 36 weeks, with at least three of the courses in the student's program being in fields other than Education. Under this plan, the following two courses must be included in the student's program: Education 826, *Methods of Applied Research in Education*, and Education 921, *Laboratory in Applied Education*.

**PLAN B.** Under this option, the requirements for the Master of Education degree may be met by 60 quarter hours of approved course work, these courses to include a minimum of 20 quarter hours outside the field of Education.

**MASTER OF ART EDUCATION.** Prerequisite degree: An approved baccalaureate degree. The minimum requirement for this degree is an approved program consisting of either of the following options:

**PLAN A.** Fifty quarter hours of course work in Art, Art Education and Education combined, plus five hours in Art Problems (Art 921). This program must include at least fifteen hours outside the field of Education.

**PLAN B.** Sixty quarter hours of course work approved by the major professor. These courses must include at least twenty quarter hours outside the field of Education.

**MASTER OF MUSIC EDUCATION.** This degree may be obtained through either of the two following plans:

**PLAN A.** The requirements for this degree may be met by completion of an approved program of study of fifty hours in Music, Education, and Music

Education; and five quarter hours in applied problems in Music. A minimum of three quarters in residence is required and a general musicianship examination must be passed during the final quarter of work. This program must include at least forty quarter hours outside the field of Education.

PLAN B. Under this option, the requirements may be met by completion of an approved program of sixty quarter hours of course work. These courses must include at least forty quarter hours outside the field of Education.

MASTER OF FINE ARTS. The requirement for this degree is the satisfactory completion of a minimum approved program of fifty quarter hours of course work and a creative project or problem to be designated as 921, which will carry five quarter hours credit. The project requirement may be satisfied by a large composition in *music* or by a solo recital which indicates a graduate quality of work, a creative project or original research in theatre history, aesthetics, or criticism in *drama*, or a creative project of acceptable quality in *art*.

In *art*, emphasis will be placed upon a high degree of technical and artistic accomplishment. The student must also have a general knowledge of art history and criticism.

In *drama*, emphasis will be placed not only upon a high degree of technical and artistic accomplishment but also on a general knowledge of theatre history and dramatic literature.

In *music*, the student may select composition, musicology or applied music as his or her special field.

The prerequisite degree for a program in art, drama, or music is the Bachelor of Fine Arts, or its equivalent.

MASTER OF FORESTRY. Prerequisite: Bachelor of Science in Forestry degree or equivalent. The minimum requirement for the degree of Master of Forestry is an approved program carrying fifty-five quarter hours of credit. Twenty quarter hours must be in forestry and so selected as to form a logical major. The program must include Forestry 921 for which the student will be allowed five quarter hours credit. Fifteen quarter hours of additional credit must be earned in forestry or a closely related field. The remaining 15 quarter hours must be taken outside the field of forestry. No thesis is required.

MASTER OF HOME ECONOMICS. Prerequisite degree: Bachelor of Science in Home Economics, or equivalent degree. The minimum requirement for the degree of Master of Home Economics is an approved program of 11 courses (55 quarter hours) with four quarters of resident study. At least four courses must be taken in a selected field in home economics. These must include Home Economics 921, *Problems in Home Economics*, on which an acceptable written report must be presented. At least two courses in the student's program must be from fields other than home economics.

MASTER OF LANDSCAPE ARCHITECTURE. Prerequisite degree: Bachelor of Landscape Architecture, Bachelor of Architecture or equivalent degree. The requirement for this degree is an approved program of at least 40 quarter hours of course work and an acceptable thesis.

MASTER OF LAWS. Prerequisite degree: Bachelor of Laws from an approved school of law. At least one academic year of full-time study with a minimum of forty quarter hours of course work and a thesis is required. The thesis and not less than one-half of the student's course work must be in the general field of law. The program for this degree provides opportunity for the student to specialize in a chosen field of law or extend his knowledge of the general field of law.

**DOCTOR OF EDUCATION.** Among workers in the field of Education a demand has developed for advanced professional training for a career in teaching, administration, or other professional educational services. As a consequence of this demand, the University of Georgia grants the Doctor of Education degree in school administration and supervision, educational psychology, guidance, elementary education, special education, and science education.

### GENERAL REQUIREMENTS FOR PROFESSIONAL MASTERS' DEGREES

The foregoing statement of Advanced Professional Degrees indicates the specific requirements for each professional master's degree. The general requirements which apply alike to all of them are summarized below.

1. **ADMISSIONS.** In order for a student to be granted full admission as a prospective candidate for a Professional Master's degree (1) he must have completed the requirements for the bachelor's degree in a college accredited by the proper regional accrediting association, (2) he must have ranked in the upper half of his class in his undergraduate college work, (3) he must have completed the specific professional work that is considered by the professional school or college concerned to constitute a necessary background for advanced professional training, (4) he must exhibit the personal qualities and the intellectual capabilities that are considered essential to success in his chosen field, and (5) he must be recommended by the faculty of his prospective major department, school, or college and approved by the Dean of the Graduate School.

2. **LANGUAGE REQUIREMENTS.** All candidates for graduate degrees are expected to show correctness and good taste in their use of both written and spoken English.

3. **GRADUATE RECORD EXAMINATION.** This examination is required of all students seeking Advanced Professional degrees. It should be taken during the student's first quarter of residence. The dates on which the examination may be taken are indicated in the Graduate School Calendar.

4. **PROGRAM OF STUDY.** A program of study conforming to the requirements of the pertinent Advanced Professional Degree should be prepared during the student's second quarter in residence. This program must be submitted on the appropriate forms and approved by the dean of the college concerned and the Dean of the Graduate School.

5. **ADMISSION TO CANDIDACY.** An application for admission to candidacy must be filed with the Dean of the Graduate School before the first day of classes of the student's final quarter of residence. This application is a certification by the student's major department that the student has demonstrated the ability to do acceptable graduate work in his field and that he has made normal progress toward his degree. The specific requirements for admission to candidacy are listed below.

- a. Appointment of a faculty member to act as the student's major professor.
- b. Certification by the student's major professor and the dean of his college that:
  - (1) all prerequisite courses set as a condition to admission have been satisfactorily completed.
  - (2) The Graduate Record Examination scores are satisfactory and all other requisite preliminary examinations have been passed.
  - (3) the Program of Study has been approved by the major professor and the Dean of the Graduate School.

6. **REQUIRED STANDING.** An average of B+ must be maintained on the program of study used to satisfy degree requirements, and no grade below C will be accepted.

7. **FINAL EXAMINATION.** The candidate must pass a final examination. This examination will be conducted by a committee approved by the Dean of the Graduate School.

8. **RESIDENCE.** The minimum residence requirement for any advanced professional degree is three quarters, and certain of these degrees will require from four to six quarters.

Not more than twenty quarter hours taken in off-campus workshops or in the Atlanta Area Teacher Education Service may be included in a program of study.

9. **TIME LIMIT.** All work credited toward the master's degree must be completed within six years. Extension of time may be granted only on conditions beyond the control of the individual.

10. **ACCEPTANCE OF GRADUATE CREDIT BY TRANSFER.** Transfer of credit for graduate courses is never automatic. In cases in which a course taken at another accredited institution does constitute a logical part of the student's program, transfer of credit may be allowed if recommended by the student's major professor and approved by the Dean of the Graduate School. The credentials presented must show that the student was of regular graduate standing in the institution concerned. Such transfer of credit cannot exceed ten quarter hours and cannot reduce the residence requirement to less than thirty weeks.

11. **EXTENSION AND CORRESPONDENCE.** Graduate credit is not allowed for work done in extension or by correspondence.

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

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

#### REQUIREMENTS—DOCTOR OF EDUCATION

1. **ADMISSION.** Students who desire to pursue advanced professional training in Education beyond the master's degree and with a view to becoming candidates for the Doctor of Education degree will be expected to file formal application and present themselves to the faculty of the College of Education for special tests and interviews. Recommendation on the student's admission will be made by the College of Education only after its screening procedures have been carried out. Admission will be upon the recommendation of the Dean of the College of Education, or his authorized representative, and approval by the Dean of the Graduate School.

2. **ADVISORY COMMITTEE.** When a student has been admitted as a prospective candidate for the Doctor of Education degree, the Dean of the Graduate School will appoint three persons recommended by the Chairman of the Division of Graduate Studies of the College of Education to serve as an advisory committee for the student, the chairman of the committee being his major professor. The members of this committee will advise the student in planning his program of study, in choosing a subject for his dissertation, and in the pursuit of his program toward the degree.

3. RESIDENCE. The degree presupposes a minimum of three full years of study beyond the bachelor's degree and it cannot be secured through summer work alone. At least three consecutive quarters must be spent by the student in resident study on the campus of the University of Georgia. If the student holds a part-time assistantship or has other part-time duties, the residence requirement will be adjusted to make it equivalent to three quarters of full-time study. In individual cases, such modification of the residence requirement as may seem necessary to meet the need for approved field work may be made, such modification being subject to approval by the student's advisory committee, the Dean of the College of Education and the Dean of the Graduate School.

4. PROGRAM OF STUDY. The program of study to be offered by the student for the degree should be submitted during the first year of his work as a prospective candidate for the degree. It must provide a major concentration in the field of Education and a minor concentration in courses outside the field of Education and significantly related to the student's vocational objectives.

All requirements for the degree except the thesis and final oral examination must be completed within a period of six years. This requirement dates from the first registration of the student as a prospective candidate for the Doctor of Education degree.

5. PRELIMINARY EXAMINATION. As a prerequisite to admission to candidacy for the Doctor of Education degree, the student must pass satisfactorily a formal preliminary examination (written and oral) on his major and minor areas of concentration. This examination will be administered by the student's advisory committee and such other persons as may be appointed by the Dean of the Graduate School.

6. ADMISSION TO CANDIDACY. Before the student may become a candidate for the Doctor of Education degree he must have had at least two years of successful experience in teaching or in a closely-related field of work, he must have had a broad background of training, and he must have demonstrated to the faculty of the College of Education those personal qualities that are considered by it to be essential to success in the field of teaching. These conditions having been met, the student may be admitted to candidacy upon (1) approval of the student's program of study and proposed research for the thesis, (2) satisfactory passing of the preliminary examinations, (3) the demonstration of such competency in the methodology of educational research and such proficiency in the use of language as his advisory committee requires of him. Application for admission to candidacy must be filed with the Dean of the Graduate School for his approval not less 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.

7. APPLICATION FOR GRADUATION. At the beginning of the quarter in which the candidate expects to be granted the degree, he must file with the Dean of the Graduate School an application for graduation. The application must be accompanied by a receipt showing that the candidate has paid his diploma fee of \$25.

8. DISSERTATION. The dissertation required of the candidate for the Doctor of Education degree is the most important single requirement for the degree. It should demonstrate the intelligent application of research tech-



niques to the solution of a problem in educational practice. The problem chosen must be definite and appropriately limited in its scope, the method of investigation must be exact, the source materials must be intelligently evaluated, and the conclusions must be well supported. It is expected that the pursuit of this study will involve not less than one full year of work—frequently, much more. The finished dissertation must show correctness and good taste in the use of English.

The dissertation may be finally accepted only after it has been read and approved by a committee appointed by the Dean of the Graduate School.

When the finished dissertation has been read and given approval by the student's major professor and the members of his advisory committee, it may be submitted to the Dean of the Graduate School with the request that a reading committee be appointed to represent the Graduate Faculty in passing upon its acceptability. For this purpose three typewritten copies of the completed dissertation must be submitted and this must be done not less than four weeks before the proposed date of graduation. When the dissertation has been finally approved, the original copy in manuscript form and one bound copy must be filed with the University Library, and one bound copy with the major department. Each copy must include a certificate of approval signed by the major professor, the chairman of the reading committee and the Dean of the Graduate School. For information on the preparation of the dissertation consult the Graduate School Office.

Before the degree will be awarded the student must deposit with the Dean of the Graduate School three copies of an acceptable abstract (not more than 500 words) of the dissertation, and a receipt showing that he has deposited with the Treasurer of the University the amount of \$25 to cover the cost of microfilming the dissertation. If the student desires to have his dissertation copyrighted, he must pay an additional charge of \$5 plus the cost of two positive prints required by the Copyright Office.

9. FINAL EXAMINATION. When the candidate's dissertation has been approved by the proper committee and all other requirements of his program have been successfully completed, he will be given a final oral examination upon his dissertation and upon the general fields of his major and minor concentration. The final examining committee will consist of the members of the student's advisory committee and such other persons as may be appointed to it by the Dean of the Graduate School. All final oral examinations will be open to any members of the faculty who may desire to attend.

## PROGRAMS FOR TEACHER CERTIFICATION

### A. FOR MAJORS IN EDUCATION

The Georgia State Board of Education is the agency which awards professional certificates. The College of Education has been approved to offer graduate programs designed to qualify students for the following types of five-year professional certificates:

Teachers .....	T-5 certificate
Principals .....	P-5 certificate
Superintendents .....	Su-5 certificate
Supervisors .....	Sv-5 certificate
Teacher-Counselors .....	T-5 certificate (counselors)
Visiting Teachers .....	VT-5 certificate

Effective September, 1960, the Georgia State Board of Education authorized a salary schedule for persons holding sixth-year certificates. Information concerning the criteria employed by the Board in awarding sixth-

year certificates may be obtained directly from the Director, Division of Instruction, Georgia State Department of Education.

Professional sixth-year programs have been authorized at the University of Georgia in the following fields; administration, supervision, counseling, visiting teaching, reading, vocational agriculture, vocational home economics, trade and industrial education, business education, secondary education in most of the teaching fields, the physically handicapped, the mentally retarded, and speech correction.

An average grade of B+ must be maintained on the program of study used to satisfy six-year certification requirements and no grade below C will be accepted.

The programs leading to special certification at the sixth-year level require a minimum of 45 quarter hours of graduate work beyond a master's degree and a fifth-year certificate in the area of prospective sixth-year certification. The program of study for the master's degree and the sixth-year program taken collectively must meet the specified criteria established by the Georgia State Board of Education, including satisfactory scores on the National Teacher Examinations.

Persons desiring formal admission to a particular sixth-year training program must be admitted to the Graduate School and must earn satisfactory scores on the requisite National Teacher Examinations. Information concerning the dates and places of administration of the National Teacher Examinations may be obtained directly from the Division of Instruction, State Department of Education, Atlanta, Georgia. Inquiries related to information about sixth-year programs in general or specific details about a particular sixth-year program should be addressed to the Chairman, Division of Graduate Studies, College of Education. Application for admission to the Graduate School as a prospective sixth-year trainee should be addressed to the Dean of the Graduate School.

#### B. FOR MAJORS IN FIELDS OTHER THAN EDUCATION

Candidates for degrees in fields other than Education may meet the requirements for a teaching certificate at the five-year level. Non-Education majors desiring to meet the requirements for the T-5 certificate must complete an approved program of graduate studies which includes a concentration in the teaching field supplemented by a minimum of 15 quarter hours of professional courses approved by the Chairman of the Division of Graduate Studies of the College of Education. The T-5 certificate can be obtained only by persons who hold a four-year professional certificate.

#### FELLOWSHIPS, ASSISTANTSHIPS, AND SCHOLARSHIPS

A number of qualified graduates may be given financial aid in the form of fellowships, assistantships or scholarships while pursuing work leading to graduate degrees. Persons holding assistantships are expected to render certain services to the University. Fellowships and scholarships are derived from funds provided for the purpose of subsidizing outstanding students with special interests and carry no obligation to render service.

Application blanks and further information may be obtained from the Dean of the Graduate School. Applications for the following year should be filed not later than February 15.

**ALUMNI FOUNDATION FELLOWSHIPS.** These fellowships are awarded to candidates for the doctor's degree in authorized fields. The \$2,500 stipend for the academic year requires no services and is tax free. An Alumni Foundation Fellow must enroll for full-time graduate work and may not earn any additional remuneration.

Applications should be filed with the Dean of the Graduate School.

**GRADUATE FELLOWSHIPS.** Graduate fellowships are awarded to students at all levels. The \$2,200 stipend for the academic year requires no services and is tax free. A graduate Fellow must enroll for full-time graduate work and may not earn any additional remuneration.

Applications should be filed with the Dean of the Graduate School.

**GRADUATE ASSISTANTSHIPS.** Graduate assistantships are regarded as third-time on a basis of the extent of duties required of the student. The assistantship carries a stipend of \$1,700-\$2,000 for the 9-months' session of the University.

Applications should be filed with the Dean of the Graduate School.

**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. 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.

Applications should be filed with the department in which the student proposes to work.

**TEACHING ASSISTANTSHIPS.** The University provides a few teaching assistantships that are open to students who hold the master's degree or its equivalent. These assistantships carry stipends ranging from \$1,800 to \$4,200 per year, depending upon the experience and the amount of work required of the assistant.

The amount of graduate work that may be carried by the Teaching Assistant will depend upon the amount of teaching required of him.

These assistantships are not handled through the Graduate School. Application should be made directly to the student's major department.

**WILDLIFE CONSERVATION AND MANAGEMENT ASSISTANTSHIPS.** These assistantships are available to wildlife conservation or zoology majors for graduate work in wildlife management or vertebrate ecology. The theses of students holding the assistantships will be directed toward the solution of problems in wildlife conservation, fisheries biology, or field natural history.

Ample opportunity is provided for research work in relatively undisturbed natural environments and for work in the growing field of radiation ecology.

These assistantships carry a minimum stipend of \$2,400 for a 12-months' appointment.

Application should be made to Wildlife Management, School of Forestry or to the Department of Zoology.

**ATLANTIC STEEL COMPANY FELLOWSHIP IN ECONOMIC GEOGRAPHY.** This fellowship is awarded to a graduate student in Geography to provide half-time research in economic geography. The stipend is \$2,400 for 12-months' appointment. Application should be made to the head of the Department of Geography.

**COMER FUND ASSISTANTSHIPS.** A portion of the income from the Edward T. Comer Fund is used each year to provide several assistantships for work in the Bureau of Business Research on problems relating to Georgia business. The stipend for these assistantships is \$1,000 for the nine-months' session of the University.

Applications should be directed to the Dean of the College of Business Administration.

**PHELPS-STOKES GRADUATE SCHOLARSHIP.** The holder of this scholarship must pursue studies in one of the following departments—Sociology, Eco-

nomics, Education, or History. He must make a scientific study based upon the Negro and his adjustment to American civilization. The value of this scholarship at present is \$500 a year.

Application should be made to the student's major department in the University.

**HENRY L. RICHMOND GRADUATE SCHOLARSHIP.** A portion of the income from the Henry L. Richmond Fund is used to provide scholarships in the Department of Chemistry. One or more \$500 scholarships are available each year.

Applications should be directed to the Head of the Department of Chemistry.

**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.

Applications should be directed to the head of the Department of Chemistry.

None of the above mentioned fellowships, assistantships, or scholarships carry remission of fees.

Out-of-state graduate students who hold assistantships which require at least one-third time service to the University are assessed fees on a resident basis.

In addition to the fellowships, assistantships, and scholarships administered by the schools and departments of the University, a number of graduate students receive support from the National Science Foundation, the Department of Health, Education, and Welfare, the Woodrow Wilson Foundation, and other granting agencies. The Graduate Office is prepared to assist interested students in making application for these fellowships.

## EXPENSES

Residents of Georgia pay a fee of \$252 per academic year of three quarters, payable \$84 at the beginning of each quarter. Non-residents pay an additional amount of \$115 per quarter. Room, board and laundry will approximate \$255 per quarter. Books may be estimated at \$60 per year. The total estimated expenses will be about \$1,500 per year for residents of Georgia.

All students are required to take the Graduate Record Examination before they are admitted to candidacy for a graduate degree. The fee for this examination varies from \$7 to \$15.

A candidate for the master's degree must pay a \$10 diploma fee at the beginning of the quarter of graduation.

A candidate for the doctor's degree must pay a \$25 diploma fee at least sixty days before graduation. This fee covers cost of both the diploma and the hood. There is a charge of \$25 for microfilming the dissertation.

## UNIVERSITY RESEARCH

A university serves the three-fold purpose of the expansion, the preservation, and the dissemination of knowledge, and the graduate school is the division of the university organization that is most intimately concerned with the first of these three functions. Creative scholarship, largely in the form of research in the humanities, the social sciences, the natural sciences

and the several fields of their application, constitutes the central endeavor around which graduate work must be developed. In recognition of this fact, the University of Georgia seeks to promote research through its General Research Program, several bureaus, and numerous grants and contracts obtained by its faculty members from sources outside the University itself. Agricultural research is conducted through the Agricultural Experiment Stations of the College of Agriculture.

Some of this research is directed specifically toward the elucidation of problems of applied significance, but much of it grows out of the tendency on the part of scholarly faculty members and students to explore fields of knowledge and to add to that knowledge. In all cases, the research of faculty members is open to participation of qualified graduate students and lends to the general enrichment of the graduate program.

Some examples of programs of research in which the University is participating follow. Other programs are listed with the college and school sections such as the Bureau of Business Research in the College of Business Administration.

#### 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, the Graduate School has at its disposal the facilities of the National Laboratories in Oak Ridge and of the research staff of these laboratories. When the master's 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 the student has and the level of work that he is doing. All arrangements for these fellowships will be made between the Dean of the Graduate School and the Institute.

#### MARINE BIOLOGY LABORATORY

In 1953, Mr. Richard J. Reynolds, Jr., made available to the University resources for the establishment on Sapelo Island, Georgia, of a Marine Biology Laboratory.

The Laboratory is staffed by the University and conducts research primarily in the problems of marine biological productivity as found in the estuarine waters adjacent to the Georgia Sea Islands. Interested groups of students and faculty members from the University are given the opportunity to observe the work of the Laboratory on field trips.

#### SOCIAL SCIENCE RESEARCH INSTITUTE

In keeping with the increasing impact of change on the people and culture of the South, the University established a Social Science Research Institute in 1960 to encourage and stimulate basic studies in the various disciplines

concerned with such human affairs. It will also serve as a means for the discovery and development of research personnel, and hence will be of major support to graduate programs in the social sciences.

#### INSTITUTE OF RADIATION ECOLOGY

In 1961, with the support of the U. S. Atomic Energy Commission, an Institute of Radiation Ecology was established at the University for the purpose of coordinating and extending the program of research and graduate training in the environmental aspects of atomic energy which has been developing for the past ten years on campus and at the Savannah River Plant located near Augusta. The Institute is staffed by University faculty and technical personnel who are developing special laboratory and field facilities at the Savannah River Plant as well as in the Science Center on campus. The institute offers opportunities for research and training for selected advanced students as part of the regular academic programs in the biological sciences.

# THE FRANKLIN COLLEGE OF ARTS AND SCIENCES

JOHN OLIN EIDSON, A.B., M.A., Ph.D., Litt.D., *Dean*

HOWARD TEMPLETON COGGIN, A.B., M.S., Ph.D., *Assistant to the Dean*

CHARLES WILLIAM JAMES, B.S., M.S., Ph.D., *Assistant to the Dean*

## ORGANIZATION

The objective of the College of Arts and Sciences is to offer to its students a liberal education. It strives to develop in the individual 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 are 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 Economics, Geography, History, Philosophy and Religion, Political Science, Sociology and Anthropology.

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

**DIVISION OF BIOLOGICAL SCIENCES:** The departments of Bacteriology, Botany, Entomology, Psychology, and Zoology.

**DIVISION OF FINE ARTS:** The departments of Arts, Music, and Speech and Drama.

## DEGREES OFFERED

I. The degrees in which all of the work is taken in the divisions listed above, with the exception of fifteen hours of professional credit permitted as electives, are:

**BACHELOR OF ARTS**, for which the major division may be Language and Literature, Social Sciences, Biological Sciences, Physical Sciences, Art, Speech and Drama, 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 MUSIC**, for which the major subject must be Music.

**BACHELOR OF SCIENCE IN PHYSICS**, for which the major must be Physics.

II. The degrees offered in cooperation with other schools and colleges are:

A.B. or B.S. degree with provisions for a professional certificate for teaching in secondary school. See page 145.

A.B. degree with a pre-professional major in social work. See page 145.

A.B. degree combined with law, see page 158.

B.S. degree combined with medicine or veterinary medicine. See pages 159 and 160.

B.S. degree combined with medical technology. See page 161.

B.S. degree combined with B.S. in engineering. See page 161.

### PRE-PROFESSIONAL COURSES

In addition to those professions listed above, the College of Arts and Sciences offers pre-professional courses as a foundation for study in nursing (see page 162), dentistry, optometry, physical therapy, and for programs in all professional schools and colleges in the University.

### PRE-SEMINARY CURRICULUM

An undergraduate pre-seminary curriculum is available at the University of Georgia for those students planning to enter a *church-related* vocation. This includes those who are planning to enter the pastoral ministry, the ministry of religious education in a local church, the ministry to college and university students and the ministry of teaching religion in institutions of higher learning. The A.B. degree program in the Franklin College of Arts and Sciences permits the student to meet the requirements for undergraduate education established by the American Association of Theological Schools. All accredited seminaries in the United States are members of this association. Students interested in studying in theological seminaries after graduation from the University of Georgia are advised to consult with the Head of the Department of Philosophy and Religion as early, as possible and not later than the beginning of their junior year.

### 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 either unusual ability or unsatisfactory results. He will advise sophomores on the choice of their fields of concentration and refer them to the appropriate department heads for the preparation of senior college sequences.

### ACADEMIC RECORDS

All students are required to give the photostatic copy of their credits which is found in the registration envelope at Fall Quarter Registration to either their adviser or major professor at registration. This transcript is kept in the students folder in the Dean's office. Failure to turn in the transcript may cause a delay in the checking for graduation and may prevent him from being recommended to prospective employers.



### 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. See Item 5A, page 142. 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 two 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 elective hours credit will be allowed for professional courses in the professional schools, except in the degrees with special provision for the teaching certificate.*

### COURSE NUMBER AND STUDENT CLASSIFICATION

Junior division courses are those numbered under 200; courses which may be either junior or senior division depending on the student's classification, are numbered 200 to 299; senior division courses are numbered 300 or above.

A junior division student is one who has either less than 85 academic hours or a grade average below C on the 85 or more hours earned; a senior division student is one who (1) has 85 or more academic hours with a grade average of C or better and (2) has passed the Sophomore Comprehensive Examination.

### CANDIDACY FOR A DEGREE

The College of Arts and Sciences reserves the right to refuse candidacy for a degree to any student, regardless of the number of hours of credit the student may have, if his performance on the Sophomore Comprehensive Examination is unsatisfactory or if he has failed to satisfy all specified junior division courses required in freshman and sophomore years, except those in Item 4C, page 142, or if he has failed to meet requirements regarding the Georgia Constitution and American and Georgia History.

After a student has earned 130 academic hours and has met the qualifications required for the candidacy for a degree, he should apply for graduation in the Registrar's Office. This should be done three quarters before graduation.

### ACADEMIC WORK LOAD

The normal load of work is 15-17 academic hours, except in a few programs in which 18 hours are required. For the conditions under which extra hours may be taken, see page 83.

### DROPPING OF COURSES

Except in special cases a student will not be permitted to drop to less than a normal load of 15 academic hours. A student who drops to less

than 15 hours of work after the first five days of the quarter will normally receive a grade of WF on the course or courses dropped.

Students registered for extra hours may be permitted by the Dean to drop to a normal load of 15 hours, but if the course is dropped after the first five days of the quarter and the grade received is W, the student forfeits for the next quarter the right to apply for extra hours.

### TRANSFER STUDENTS

Students transferring from standard colleges and universities with junior classification will not be required to take the non-laboratory science 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 these 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.

## THE HONORS PROGRAM

Director: C. J. SMITH, JR.

Assistant to the Director: LOTHAR L. TRESP

Counselors: CHARLES BEAUMONT, GAYTHER PLUMMER

Coordinator, Business Administration Honors Work: JAMES L. GREEN

An Honors Program was inaugurated by the College of Arts and Sciences in 1960. It is administered by the Director and an Honors Council. In 1963 close liaison was established between the Honors Program in Arts and Sciences and a newly established program of the same type in the College of Business Administration.

Admission of students to the Honors Program is by invitation only. Beginning freshmen are admitted on the basis of high school grades and scores on the College Entrance Examination Board Scholastic Aptitude Tests, and on the basis of placement and qualifying examinations administered by the University. For all other students, grades made at the University determine admission to the Program. To be admitted to the Program and to remain in it, a student should have a cumulative scholastic average of 88, or have a reasonable prospect of attaining such an average. A student not in the College of Arts and Sciences is eligible to take honors work on the recommendation of his school or college.

Students admitted to the Honors Program are accorded the privilege of being taught in special sections of most of the basic beginning courses of the College. These sections are limited in size and are taught in seminar fashion. They are taught by the most experienced members of the faculty, are enriched in content, and are pitched at the level of the student of superior abilities. There are a few such courses in the Senior Division Honors Program, but most of the work in the Senior Division Honors program consists at present of inter-departmental colloquia.

Successful completion of the Junior Division Honors Program will normally involve the taking of a minimum of 6 honors courses, distributed between the Humanities, the Natural Sciences, and the Social Sciences, and the achievement of a minimum cumulative average of 88 in both honors work taken and in all academic work taken. Students who complete this program are awarded the Junior Division Honors Program Certificate.

Completion of the Senior Division Honors Program as well, entitles the student to graduation with honors, provided his academic performance is sufficiently high.

The student interested in Honors work should apply at the Honors Program Office (202 Old College) for a copy of the Honors Program Student Handbook.

ADVANCED PLACEMENT

Students who enter the University with good records on the Advanced Placement Program of the College Entrance Examination Board are given credit for the courses which they have had on this program and are placed in advanced courses in the respective subjects.

In addition to the program of the C. E. E. B., the University has its own Advanced Placement Program, by which qualified freshmen can exempt elementary courses in chemistry, English, mathematics, modern foreign languages, political science, and zoology. In some of these subjects, freshmen can get college credit for the courses which they exempt by examination. Advanced Placement Examinations are given at the beginning of the freshman year.

Students are encouraged to exempt elementary courses and go on to more advanced work in all areas in which they are qualified to do so.

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 study in the various liberal arts fields and for matriculation in professional schools such as Law, Medicine, Business Administration, and Journalism.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

ADVISERS: FRANCES J. CLUNE, IMOGENE DEAN, WILLIAM J. FREE, GRADY HUTCHERSON, AND ROBERT HARRIS

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	Literature .....	10
Mathematics 100 and Mathematics 101, 200, or Philosophy 358 .....	10	(See Item 1B below)	
(See Item 2A below)		History 111-112 .....	10
Political Science 101 .....	5	Laboratory Science .....	10
Foreign Language through 104 .....	10-20	(See Item 2B below)	
(See Item 1D below)		Social Studies .....	15-5
Science (non-laboratory) or Social Studies (junior division) .....	10-0	(See Item 4C below)	
(See Items 2B and 4C below)		Science (non-laboratory)* .....	0-10
Military Science 1 or Air Science 5 .....	6	(See Item 2B below)	
Physical Education 1-2 (for men) .....	0	Military Science 2 or Air Science 6 .....	6
Physical Education 1-2 (for women) .....	5	Physical Education 1-2 (for men) .....	0
		Physical Education 1-2 (for women) .....	5
<b>Total</b> .....	<b>50-51</b>	<b>Total</b> .....	<b>50-51</b>

## JUNIOR AND SENIOR YEARS

(95 hours of required and elective junior and senior division courses. See Total Requirements for A.B. and B.S. degrees on the following pages).

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

ADVISERS: WILLIAM M. CARLTON AND BARNEY A. DAUGHTRY  
FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	Literature .....	10
Mathematics 100-101 .....	10	(See Item 1B below)	
Political Science 101 .....	5	History 111-112 .....	10
Foreign Language through		Laboratory Science .....	10
103 .....	10-15	Science (non-laboratory)* .....	10-15
(See Item 1D below)		(See Item 2B below)	
Science (non-laboratory)* .....	10-5	Laboratory Science, Mathe-	
Military Science 1 or		matics or Social Studies .....	5-0
Air Science 5 .....	6	(See Items 2B and 4C below)	
Physical Education 1-2 (for men) 0		Military Science 2 or	
Physical Education 1-2		Air Science 6 .....	6
(for women) .....	5	Physical Education 1-2 (for men) 0	
		Physical Education 1-2	
		(for women) .....	5
Total .....	50-51	Total .....	50-51

(95 hours of required and elective junior and senior division courses. See Total Requirements for A.B. and B.S. degrees, as listed below).

## TOTAL REQUIREMENTS FOR A.B. AND B.S. DEGREES

(Unless otherwise specified the requirements are for both the  
A.B. and B.S. degrees)

	Hours
1. LANGUAGE-LITERATURE .....	30-50
A. English 101-102 .....	(10)
A grade of C or better is required in 101 and an average of C is required in the two courses.	
B. Literature .....	(10)
Two courses from the following: English 121-122, "Western World Literature"; or French 201-202; or German 201-202; or Italian 201-202; or Spanish 201-202.	
C. Classical Culture .....	(10)
This requirement is for Bachelor of Arts students only and may be satisfied by one 10-hour sequence from the following: Classical Culture 301-302.	
Honors courses (H-305 and H-306) may substitute for the Classical Culture sequence. Classical Culture 456 or 457 may substitute for Classical Culture 301.	
If Latin or Greek is elected to meet the foreign language requirement (see Item D), the student is exempt from the Classical Culture requirement.	

\*A non-laboratory science requirement may be substituted by a laboratory science in the same division.

## D. Foreign Language ..... (10-20)

*For A.B. Students:*

A student continuing a foreign language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.

A student must complete twenty hours in one language. These twenty hours may be a combination of high school and college courses, but at least ten hours must be in college courses numbered 103 or above. No student may receive credit for any course which is a prerequisite to a course for which he has already received college credit.

*For B.S. Students:*

A student continuing a foreign language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information. A student must complete fifteen hours in one language. These fifteen hours may be a combination of high school and college courses, but at least ten hours must be in college courses, and at least five of these ten hours must be in courses numbered 103 or above. No student may receive credit for any course which is a prerequisite to a course for which he has already received college credit.

## 2. SCIENCE-MATHEMATICS ..... 30-50

## A. Mathematics and/or Philosophy ..... (10)

For A.B. students: Mathematics 100 and one course from the following: Mathematics 101, 200, 235, or Philosophy 358.

For B.S. students: Mathematics 100-101.

## B. Science ..... (20-40)

For A.B. students: (20 hours of which 10 must be with laboratory). A student must follow either option I or option II.

## Option I

- (a) A double non-laboratory (or laboratory) course from:  
Human Biology 101-102 or Botany 110-111 or Botany 121-122\*  
(laboratory) ..... (10)
- (b) A double laboratory course from:  
Chemistry (111-112)\*\* 121-122 or Physics 120, 127 or 128 or  
Geology 125-126 ..... (10)

## Option II

- (a) Two non-laboratory (or laboratory) courses from:  
Physical Science 101\*\* or Physics 120 (laboratory) and either  
Geography 104 or Chemistry (111)\*\* 121 (laboratory) .... (10)
- (b) A double course from Botany 121-122 or  
Zoology 225-226 ..... (10)

For B.S. students: 35-40 hours of Science or 25-30 hours of science plus 10 hours of mathematics, as follows:

- (a) Human Biology 101-102 or Zoology 124 or Botany 110-111  
(Botany 121-122) ..... (5-10)
- (b) Chemistry 121 or Geography 104 and one of the following:  
Physical Science 101, Physics 120, Physics 127 or Physics  
128\*\* ..... (10)

The student will also take 20 hours (two 10 hour sequences) from any two of the three following groups:

- (c) Biological Science Division: Botany 121-122\* or  
Zoology 225-226 ..... (10)

- (d) Physical Science Division: Chemistry 121-122 or 122-223 or  
Geology 125-126 or  
Physics 127-128 (137-138)  
or 128-229 (139-239) ..... (10)
- (e) Advanced Mathematics (courses for which Mathematics 101  
is a prerequisite) ..... (10)
3. FINE ARTS ..... 5  
Fine Arts 300 ..... (5)  
This is a requirement for A.B. students and is an elective for  
B.S. students.
4. SOCIAL SCIENCE ..... 35-40  
A. History 111-112 ..... (10)  
B. Political Science 101 ..... (5)  
C. Social Studies ..... (20-25)  
For A.B. students: (25 hours)  
Five courses from:  
Anthropology 102  
Economics 105  
Geography 101  
History 351 or 352  
Philosophy 104 or 305  
Psychology 101  
Sociology 105  
For B.S. students: (20 hours)  
Four of the above courses or three of the above courses plus  
Fine Arts 300.
5. MAJOR (All grades must be C or above) ..... 40  
The major consists of a minimum of 40 hours. No course can be  
used to satisfy any part of the major if it has been used to satisfy  
any of the requirements listed under Items 1-4 above.  
These 40 hours must be distributed as follows:  
A. The major subject:  
A minimum of 20 hours of senior division courses in one subject.  
These must be taken after admission to senior division standing  
and in residence.  
B. The major division:  
In addition to the 20 hours listed above, the student must take  
20 or more hours either in the major subject or in the division of  
the major. At least 10 of these hours must be in senior division  
courses.  
The major professor must approve all of the 40 hours in the  
major.  
For the A.B. degree the major may be in any division, but for  
the B.S. degree the major must be in either the biological or  
physical science division. By special action of the Dean and the  
major professor a combined divisional major may be authorized.
6. REQUIRED ELECTIVES ..... 15  
None of these can be in any subject which is included in the 40  
hours of the major, but they may be taken in subjects that are in  
the same division as the major subject or subjects.

\*Not open to students with credit in Botany 110-111. Botany 121-122 will substitute for Botany 110-111 in (a).

\*\*Physical Science 101 or Physics 120 should not be taken if further work in physics is contemplated.

\*\*\*A.B. students, other than chemistry majors, may take Chemistry 111-112.

## 7. FREE ELECTIVES ..... 5-20

These will vary as needed to meet (1) a minimum of 185 academic hours, (2) all residence and senior division requirements, and (3) any scholastic requirements, such as replacing excess D grades or raising the academic average. To meet these requirements the number of electives may exceed 20 hours but not over 15 hours of professional credit may be used.

## 8. TOTAL ACADEMIC HOURS (Minimum) ..... 185

These 185 hours are exclusive of Military Science 1-2 and Air Science 5-6, and Physical Education 1-2. Not over one-fourth can be in grades below "C" and the average must be "C" or above.

For the A.B. and B.S. degrees with provisions for a professional teachers' certificate and the B.M. degree with a major in Music Education, see pages 145 and 155.

The requirement of 185 hours is for the regular A.B. and B.S. degrees. For any modification of these degrees and for all other degrees, it will be necessary to check the curriculum of the particular degree in order to determine the total hours required.

## 9. RESIDENCE REQUIREMENTS:

A minimum of 90 quarter hours in the College of Arts and Sciences See page 83.

## 10. SENIOR DIVISION REQUIREMENTS for all degrees in the College of Arts and Sciences:

- (a) 60 hours of senior division courses\* after reaching senior division standing, and
- (b) 45 hours, after senior division standing, of senior division courses in the College of Arts and Sciences while in residence in the College of Arts and Sciences,\*\* and
- (c) 30 hours in senior division courses must be taken in residence during the three quarters' work immediately preceding graduation.

Students under one of the combined programs should see the curriculum for that degree concerning residence and senior division requirements.

## 11. SPECIAL REQUIREMENTS FOR ALL CANDIDATES FOR A DEGREE:

## A. Examinations on the Constitutions.

See page 84. Students transferring credit for Political Science 101 from institutions outside of the state will be required to pass an examination on the Georgia Constitution.

## B. Sophomore Comprehensive Examination.

This examination is required of all sophomores and also of students who transfer in as juniors or seniors.

## C. Examination on the History of the United States and Georgia:

All students receiving a degree from the University of Georgia are required to pass an examination on the history of the United States and Georgia (given at the beginning of the freshman year) unless credit is presented in (1) History 100 or (2) History 351-352 or (3) History 459 and one other course in American history.

## 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 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, or 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, and elective courses should be spent in courses in related departments. All other requirements for the A.B. degree, as outlined on pp. 140-143 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.

## MAJOR IN ART OR MUSIC OR SPEECH AND DRAMA WITHIN THE BACHELOR OF ARTS DEGREE

	Hours
BASIC CURRICULUM: Same as for A.B. Degree, except omit items 3, 5, and 6 .....	110 to 120
<b>FOR MAJOR IN ART AND MAJOR IN ART HISTORY:</b>	
Freshman and Sophomore Years—Art 120, 130, 140, 287, 288, 289 .....	24
Junior and Senior Years—Art History (Senior Division) .....	10
Art (Senior division) as approved by major professor .....	30
Music: Recommended 343, 350 or 358 .....	3-5
Fulfillment of items 7-11 inclusive, page 143.	
<b>FOR MAJOR IN MUSIC:</b>	
Freshman Year—Music 110, 111, 112 .....	9
Sophomore Year—Music 134, 135, 136, 122, 123, 124 .....	15
Junior and Senior Years—Music 350, 353, 470, 471, 442, 456, 457 or 462, Art 317 or approved art substitute .....	32
Applied Music—Music 181, 281, 381, 481 .....	12
All music majors must participate in ensemble groups, and pass a comprehensive examination in music before graduation.	
Fulfillment of items 7-11 inclusive, page 143.	

	Hours
<b>FOR MAJOR IN SPEECH AND DRAMA:</b>	
Freshman Year—Drama 101, 102, Speech 108 .....	15
Sophomore Year—Speech 209, 250, Drama 222 .....	15
Junior and Senior Years—Speech (Senior Division) .....	20
Drama (Senior Division) .....	25

All Speech-Drama majors must participate in all laboratory activities required by the department.

Fulfillment of items 7-11 inclusive, page 143.

\*A student who has satisfied the language requirement for his degree in one foreign language may count the courses taken during his junior and senior years in any other foreign language regardless of course numbers towards his senior division requirements.

\*\*Students in the combined A.B.-LL.B. program may use credits in Advanced Military Science while registered in the Law School toward their senior division requirements for the A.B. degree.



## CURRICULA FOR THE BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREE WITH PROVISIONS FOR A PROFESSIONAL CERTIFICATE FOR TEACHING IN SECONDARY SCHOOLS

A.B. ADVISERS: FRANCIS J. CLUNE, IMOGENE DEAN, GRADY HUTCHERSON  
B.S. ADVISERS: BARNEY A. DAUGHTRY AND WILLIAM M. CARLTON

The requirements for either degree total 190-200 hours, exclusive of Basic Military Science and Physical Education 1-2, with 155-165 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. Students must have their program approved by the Dean of the College of Arts and Sciences and by the Dean of the College of Education by the end of the sophomore year.

An academic average of at least 75 is required for admission to this program. Students who fail to maintain this average may be dropped from this curriculum.

### REQUIREMENTS

These are the same as for the A.B. and B.S. degree (see pages 140-143) except that in:

(1) Item 2 A.

A.B. students must take Mathematics 101, 235 or a course in statistics.

(2) Item 4 C.

A.B. students take Psychology 101 and three other courses.

B.S. students take Psychology 101 and two other courses.

(3) Items 6 and 7.

For both the A.B. and B.S. degrees these items are replaced by 5 or more elective hours in Arts and Sciences and Education 303, 304, 335, 336, 346, 347, and 348.

(4) Items 8-11 inclusive.

The total number of hours (minimum) .....185-200.

## CURRICULUM FOR THE BACHELOR OF ARTS DEGREE WITH A PRE-PROFESSIONAL MAJOR IN SOCIAL WORK

Adviser: IMOGENE DEAN

The pre-professional concentration in social work is planned to give preparation to students who expect to enter the practice of social work and to lay a sound liberal arts base for professional education in social work.

The requirements for this degree are the same as those listed for an A.B. degree (pages 140-143, inclusive) except that the major is increased from 40 to 58 hours and the number of free elective courses is reduced. A maximum of 15 hours of professional credit is allowed. The requirements are:

	Hours
English 101-102 .....	10
Human Biology 101-102 .....	10
Foreign language (see item 1D, page 141) .....	10-20
Political Science 101 .....	5

History 111-112 .....	10
Literature (See item 1B, page 140) .....	10
Mathematics 100 and either Mathematics 101, 235 or 200 or Philosophy 358 .....	10
Laboratory science: A double laboratory course from Chemistry 111-112, or 121-122, or Physics 120, 127 or 128 or Geology 125-126 .....	10
Social Studies: Psychology 101, Sociology 105, Economics 105 and two other courses. (See item 4C, page 142) .....	25
Fine Arts 300 .....	5
Classical Culture 301-302 (See item 1C, page 140) .....	10
Major: (Not to be taken until credit is obtained in Sociology 105, Economics 105, Psychology 101, Political Science 101 and Human Biology 101-102).	
Group 1 .....	43
Psychology 258 or 459 .....	5
Psychology 373 .....	3
Political Science 406 .....	5
Sociology 315, 435, and 470 or 431 .....	15
Home Economics 293 (Sociology 293) and Home Economics 493 or 495 .....	10
Education 452 or Home Economics 490 (Psychology 490) .....	5
Group 2 .....	15
Select three courses from any of the following:	
Psychology 423, 459, Sociology 427, 552; Political Science 468; Education 455, 521, 523, 512; Home Economics 496 (Education 496)	
Electives, as needed, minimum .....	12-2
Total .....	185

## BACHELOR OF SCIENCE IN CHEMISTRY

Advisers: G. E. PHILBROOK, W. H. WAGGONER,  
T. H. WHITEHEAD

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.

A.C.S. Certification. All students who satisfactorily complete this curriculum are certified by the Department of Chemistry to the American Chemical Society as having completed the undergraduate training recommended by the A.C.S.

### REQUIRED COURSES IN FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	Physics 127, 128, 229 .....	15
Chemistry 121-122-223 .....	15	Mathematics 254, 255 .....	10
Mathematics 100-101, 210 .....	15	Chemistry 340, 341, 342, 380 .....	20
Political Science 101 .....	5	Military Science 2 or	
Military Science 1 or		Air Science 6 .....	6
Air Science 5 .....	6	Physical Education 2 (for men) 0	0
Physical Education 1 (for men) 0	0	or	
or		Physical Education 2	
Physical Education 1		(for women) .....	5
(for women) .....	5		
Total .....	50-51	Total .....	50-51

An average of C+ 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. An average of C+ must be maintained in both chemistry and other academic subjects in the junior and senior years.

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) ENGLISH 121-122: Ten hours
- (2)\*GERMAN: Through 103.
- (3) Chemistry: 426, 427, 442, 480, 490 a-b-c; 580, and any two of 347, 348, 349, 430, 431, 432 (42-46 hrs.)
- (4) NON-SCIENCE ELECTIVES: Ten hours\*\*
- (5) COMPREHENSIVE EXAMINATION: The passing of a comprehensive examination (embracing the principal divisions of chemistry), this examination to be taken normally the second week of the Spring Quarter 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.
- (7) Items 9, 10 and 11, page 143.

### BACHELOR OF SCIENCE IN PHYSICS

Adviser: C. D. COOPER

The curriculum for this degree is designed so as to give the best preparation possible to those students who desire to pursue a career in physics. It provides the necessary foundation for those students who wish to do graduate work toward advanced degrees so that they may enter some field of research or college teaching, for those who wish to seek employment in commercial and governmental laboratories, and for those interested in entering the teaching profession at the high school level.

#### FRESHMAN AND SOPHOMORE YEARS

Hours		Hours	
English 101-102 .....	10	Physics 137 (or 127), 138 (or 128), 239 (or 229) .....	15
Mathematics 100***, 101, 210, 254 .....	20	Mathematics 255 .....	5
Chemistry 121, 122 .....	10	Foreign Language (1) .....	10-15
Political Science 101 .....	5	Electives (Math 457, 458 recommended) .....	15-10
Military Science 1 or Air Science 5 .....	6	Military Science 2 or Air Science 6 .....	6
Physical Education 1 (for men) or Physical Education (for women) .....	0  5	Physical Education 2 (for men) or Physical Education 2 (for women) .....	0  5
Total .....	50-51	Total .....	50-51

#### REQUIREMENTS IN JUNIOR AND SENIOR YEARS

Physics 332, 333, 334, 404 and three other courses (3) .....

\*Students who may wish to take graduate work in chemistry are advised to take some Russian or French since a reading knowledge of two foreign languages is required for a doctorate.

\*\*See item 10 page 143.

\*\*\*Every effort should be made to exempt mathematics 100. See page 139.

Mathematics 401 or 459 (3) .....	5
Literature (See item 1B, Page 140) .....	10
Biological Science .....	10
Social Science (2) .....	15
Chemistry .....	5
Electives (variable but 15 is the minimum) .....	15
<b>Total</b> .....	<b>185</b>

- (1) See Item 1D, Page 141, for the B.S. degree.
- (2) Social Studies: Anthropology 102, Economics 105, Geography 101; History 111, 112, 351, 352; Philosophy 104, 305; Psychology 101 and Sociology 105. Fine Arts 300 may be substituted for any social science course.
- (3) No grade below C in any course in Physics or Mathematics and the grade average must be B or better in these courses. Items 7-11 inclusive, page 143.

### 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 either art, music, or speech and drama.

### BACHELOR OF FINE ARTS DEGREE

Adviser: EULALA AMOS

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	Literature .....	10
Political Science 101 .....	5	(See Item 1B, page 140)	
Foreign Language (2) .....	10	History 111-112 .....	10
Mathematics 100 .....	5	Science (1) .....	10
Fine Arts (3) .....	15	Fine Arts (3) .....	15 to 21
Military Science 1 or		Military Science 2 or	
Air Science 5 .....	6	Air Science 6 .....	6
Physical Education 1 (for men) 0		Physical Education 2 (for men) 0	
or		or	
Physical Education 1		Physical Education 2	
(for women) .....	5	(for women) .....	5
<hr style="width: 50%; margin-left: 0;"/>		<hr style="width: 50%; margin-left: auto;"/>	
Total .....	50-51	*Total .....	50-57

- (1) See Item 2B, page 141, Non-laboratory science sequence in Option I\*\*.
- (2) See Item 1D, page 141, for A.B. degree. BFA majors in Voice are permitted to substitute one language through 103 and one language through 102 for the language requirement.

\*See requirements for taking extra hours, page 83.

\*\*A laboratory science will substitute for a non-laboratory science in the same division.

(3) Major in Art

Only students with averages of C+ or better may be admitted to junior class standing for the purpose of working towards the B.F.A. degree with a major in Art.

Concentration in Art Education, Art History, Art-Home Economics, Advertising Design and Commercial Art, Ceramics, Crafts, Drawing and Painting, or Interior Design:

Freshman—Art 120, 130, 140.

Sophomore—Art 216, 217, 218, 287, 288, 289.

For junior and senior years, see page 150.

Major in Music

Concentration in Applied Music, Music Literature, Theory-Composition

All music majors must participate in an ensemble appropriate to the major performance medium.

Freshman—Music 110, 111, 112, and 182.

Sophomore—Music 122, 123, 124, 134, 135, 136 and 282.

For junior and senior years, see pages 153-154.

Major in Speech and Drama*Concentration in Speech-Drama*

Freshman—Drama 101

Speech 108

Drama 102

Sophomore—Speech 209

Speech 250

Drama 222

*Concentration in Speech-Drama Education*

Freshman—Drama 101

Drama 102

Speech 108

Psychology 101

Sophomore—Speech 250

Speech 209

Drama 222

Social Studies 5 hours

*Concentration in Speech Correction*

Freshman—Speech 108

Speech 250

Psychology 101

Sophomore—Speech 209

Science 10 hours (See item 2B, page 141. Non-laboratory science in (a) Option II.

*Concentration in Radio-Television*

Freshman—Drama 101

Drama 102

Speech 108

Sophomore—Speech 209

Speech 250

Drama 222

For junior and senior years, see pages 157-158.

## DEPARTMENT OF ART

The Department of Art occupies the new Visual Arts Building, which contains an art gallery, spacious studios, classrooms, lecture rooms and laboratories, many of which are air conditioned. This modern building, which has been carefully planned to meet the needs of the various areas within the department, provides an admirable physical plant. The old Library Building houses the Georgia Museum of Art in which the Eva Underhill Holbrook Memorial paintings form the nucleus of a rapidly expanding permanent collection. The General Library contains an extensive collection of books and prints in the field of art.

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, interior design, photographic design, and graphics 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, 33 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 eight fields offered: Art Education, Art History, Art-Home Economics, Advertising Design and Commercial Art, Ceramics, Crafts, Interior Design, and Drawing and Painting. Upon completion of this program and fulfillment of all requirements, the Bachelor of Fine Arts degree is conferred. In case of students who have majored in Art Education, upon recommendation of the Dean of the College of Education, the State Department of Education will grant a professional certificate to teach Art.

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

Through the cooperation of the School of Home Economics the Bachelor of Fine Arts degree with a major in art and a specialization in home economics is offered for those interested in combining art and homemaking.

### 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 course with a grade of D or D+ can be used to satisfy any part of the minimum

requirement (40 quarter hours) in a student's major. *See Item (3) page 149.*

For all students: A minimum of 185 academic hours and the fulfillment of items 7-11 inclusive, page 143.

## 1. ART EDUCATION

	Hours
Science (1) .....	10
Ceramics 260 .....	5
Art 310 .....	5
Art History .....	10
Art 313, 321, 331, 341, 370 .....	25
Education 201 .....	3
Education 304, 335.9, 336.9 .....	15
Education 346.9, 347.9, 348.9 .....	15
Music (Recommended 358) .....	5
Electives .....	5
	98

## 2. ART HISTORY

	Hours
Science (1) .....	10
Art History (Senior Division) .....	25
Music (Senior Division: Recommended 358) .....	5
Electives outside the Art Department (to be approved by major professor) .....	15*
Electives in Art other than Art History (a minimum of 15 hours must be in one area) .....	27-37*
	82-92

## 3. ART (HOME ECONOMICS)

Science (1) .....	10
Art History (Senior Division) .....	10
Three from Home Economics 105, 120, 175, 293 .....	15
Home Economics (Senior Division) .....	10-20
Electives (to be approved by major professor) .....	37-47
	92

## 4. ADVERTISING DESIGN AND COMMERCIAL ART

	Hours
Science (1) .....	10
Art 341, Watercolor .....	5
Art 331, (Painting) .....	5
Art History (Senior Division) .....	10
Art 320, (Photographic Design) .....	5
Art 306, 308, 309, 310 .....	20
Art 301, Technical Problems .....	5
Landscape Architecture 255 .....	5
Journalism (Recommended 557) .....	5
Music (Recommended 350 or 358) .....	5
Electives (Recommended Art 321, 323; or Art 387 and Drama 335) .....	17
	92

\*Of these elective hours at least 30 must be in the Senior Division.

(1) Non-laboratory or laboratory science. Item 2B, Option II (a) Page 141.

## 5. CERAMICS

	Hours
Science (1) .....	10
Art History (Senior Division) .....	10
Ceramics .....	30
Drawing and Painting .....	15
Crafts .....	5
Electives (Recommended: Interior Design, Anthropology 102 and 301; Music 358; Sculpture; Landscape Architecture) .....	22
	92

## 6. CRAFTS

Science (1) .....	10
Art 310, Lettering .....	5
Crafts (Senior Division) .....	15
Art 320, Photographic Design .....	5
Ceramics .....	5
Art History (Senior Division) .....	10
Landscape Architecture 255 .....	5
One from Art 301, 550, 552 .....	5
Music (Recommended 358) .....	5
Electives (to be approved by major professor. Recommended Art 306, 308, 321; Ceramics; Sculpture; Drama 335; Religion; Anthropology 102, 211, 301; Psychology 101; Physics 127, 128; Botany 323) .....	27
	92

## 7. DRAWING AND PAINTING

Science (1) .....	10
Drawing and/or Sculpture .....	10
Painting and Drawing .....	25
Art History (Senior Division) .....	10
Music (Recommended 358) .....	5
Electives (Recommended: Art 371; Crafts; Drama 335; Landscape Architecture 255; Psychology 101 and Sociology 105) .....	32
	92

## 8. INTERIOR DESIGN

Science (1) .....	10
Art 321 or 341 .....	5
Art History (Senior Division) .....	10
Landscape Architecture 255 .....	5
Interior Design 386, 387, 389, 390, 391 .....	25
Crafts or Ceramics .....	5
Art 320 .....	5
Electives (To be approved by major professor. Recommended Art 321 or 341; Crafts; Ceramics; Landscape Architecture; Home Economics; Business Administration; Philosophy, Psy- chology, Sociology) .....	27
	92



## DEPARTMENT OF MUSIC

Three degrees are offered with a major in music:

- Bachelor of Arts
- Bachelor of Fine Arts
- Bachelor of Music

See page 144 for the Bachelor of Arts curriculum with a major in music.

A student majoring in music for a B.F.A. or a B.M. 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);

The major in music education (specializing in instrumental or vocal work) is offered only toward the B.M. degree. See page 155.

The junior division program for a major in music includes the required academic courses in addition to courses in elementary music theory, harmony, history, and applied music. These courses are designed to give the student a practical knowledge of the theory of music, ear training, harmony and sight singing. The senior division courses are designed to give the student a broader and more cultural background in music. Applied music courses are offered each year to music majors and also to students of other departments if they can be accommodated.

Much stress is laid on public performance through music appreciation programs and students recitals. Open to qualified students throughout the campus, the University Chorus and Orchestra present frequent concerts. Other performing groups include the University Band, the Dixie Red Coat Band, and the Men's Glee Club. Voice students are offered training in opera and in church music. An outstanding concert series of internationally recognized artists and a Chamber Music Festival in the spring add to the cultural atmosphere of the campus.

## BACHELOR OF FINE ARTS—MAJOR IN MUSIC

## REQUIREMENTS IN JUNIOR AND SENIOR YEARS

- | (1) Major Concentrations:  | Hours |
|--|-------|
| (a) Applied Music—public recital (instrumental or vocal).  |       |
| Music Literature courses 350, 353, 442, 456, 457, 462 .....  | 22    |
| Music Theoretical Courses 374, 470, 471 .....  | 13    |
| Conducting and Laboratory 263, 361 .....   | 3     |
| Applied Music 382, 482 .....   | 12    |
| (b) Theory-Composition—large original composition in concert, instead of public recital, Music 475, 476, 477 and 478 required; Music 333 recommended; otherwise same as Applied Music. |       |
| (c) Music Literature—comprehensive examination and performance before music faculty, addition of 10 hours in Music Literature; otherwise same as Applied Music.                        |       |
| (2) Science: 10 hours  |       |
| (See Item 2B, page 141. Non-laboratory or laboratory science in Option II (a).)  |       |
| (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 pass a Keyboard Proficiency Test. All music majors must participate in an ensemble appropriate to the major performance medium.
- (7) For all students: The fulfillment of items 9-11 inclusive, page 143.

## BACHELOR OF MUSIC

Concentration in Applied Music, Theory-Composition and Music Literature.

Adviser: CHARLES H. DOUGLAS

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	Literature (3) .....	10
Foreign Language 103-104 (1) .....	10	Science (4) .....	5
Political Science 101 .....	5	Music 134-135-136 .....	9
Music 110-111-112 .....	9	Music 122-123-124 .....	6
Music 143 .....	3	Music 284 (2) .....	12
Music 184 (2) .....	12	Music Organization .....	3
Military Science 1 or		Military Science 2 or	
Air Science 5 .....	6	Air Science 6 .....	6
Physical Education 1		Physical Education 2	
(for men) .....	0	(for men) .....	0
or		or	
Physical Education 1		Physical Education 2	
(for women) .....	5	(for women) .....	5
Total .....	54-55	Total .....	50-51

- (1) Same as A.B. See Item 1D, page 141. Majors in voice are permitted to substitute one language (Italian recommended) through 103 and one language (French or German recommended) through 102 for the language requirement.
- (2) Voice majors, instead of Music 184-284, will register for Music 182-282, Music 246 (six quarters), and six hours music elective.
- (3) See Item 1B, page 140.
- (4) 10 hours (5 can be taken in junior or senior year) from the following: Mathematics 100-101; Human Biology 101-102; Botany 110-111; Botany 121-122; Physical Science 101 and Geography 104; Chemistry 121-122; Physics 120-127; Geology 125-126; Zoology 225-226.

JUNIOR AND SENIOR YEARS

	Hours
Applied Music 384, 484 (including senior recital) .....	24
Music theory 374, 470, 471 .....	13
Conducting and Laboratory 263, 361 .....	3
Music literature 350-353-442-455-456-462 .....	24
Music organization .....	3
History 111-112 .....	10

Science (4) .....	5
Art .....	5
Electives .....	0-11
<hr/>	
Total (academic hours) .....	185

For Voice Majors: Music literature 455-456 will not be required, but these courses and also Music 365 will be recommended.

For Theory-Composition Majors: A large original composition in concert, instead of a public recital, will be required; Music 475, 476, 477, and 478 will be required and Music 333 is recommended; (two applied music subjects may be substituted for one major applied music subject).

For Music Literature Majors: The passing of a comprehensive examination in the history and literature of music; appearance in a public recital before graduation; ten additional hours in music literature are required. (Two applied music subjects may be substituted for one major applied music subject).

For all students: A minimum of 185 academic hours and the fulfillment of Items 9, 10 and 11, page 143.

## BACHELOR OF MUSIC—MAJOR IN MUSIC EDUCATION

Adviser: CHARLES H. DOUGLAS

### FRESHMAN AND SOPHOMORE YEARS

Hours	Hours		
English 101-102 .....	10	Science (1) .....	5
Political Science 101 .....	5	Foreign language 103-104 (2) .....	10
Music 110, 111, 112 .....	9	Music 134-135-136 .....	9
Music 143 .....	3	Music 122-123-124 .....	6
Music instrumental methods .....	6	Music instrumental methods	
Music organization .....	3	(Instrumental concentration	
Applied Music (major) 182 .....	6	only) .....	6
Applied Music (minor) 181,		Music organization .....	3
245, 246, or 290 .....	3	Applied Music (major) 282 .....	6
Military Science 1 or		Applied Music (minor) 281,	
Air Science 5 .....	6	245, 246, or 290 .....	3
Physical Education 1		Military Science 2 or	
(for men) .....	0	Air Science 6 .....	6
or		Physical Education 2	
Physical Education 1		or	
(for women) .....	5	(for men) .....	0
		Physical Education 2	
		(for women) .....	5
<hr/>		<hr/>	
Total .....	50-51	Total .....	53-54

- (1) One course from the following: Mathematics 100 or 101, Geography 104, Physics 101, or approved substitute in science or mathematics.
- (2) See language requirements for A.B. students, Item 1D, page 141. Music Education majors allowed to substitute 10 hours of science or mathematics for foreign language requirement. (See also science requirements under Bachelor of Music degree, page 154).

## JUNIOR AND SENIOR YEARS

	Hours
Music theory 374-375; 470-471 .....	16
Music conducting and laboratory, 263-264-265; 361-362-363 .....	9
Music literature (minimum) .....	8
Music methods 312-313 .....	10
Applied Music (major) 382-482 .....	10
Applied Music (minor) 245, 246, 254, 381, 481, or 290 .....	6
Choral Materials 365 (vocal concentrations only) .....	5
History 111-112 .....	10
Art .....	5
Literature (see item 1B, page 140) .....	10
Education 304, 346, 347, 348 .....	20
Electives (unless needed—see below) .....	0
Total (academic hours) .....	196-197

All music education majors must:

1. Pass a comprehensive examination covering ear training, theory, music literature, form and music methods during the senior year.
2. Pass the Keyboard Proficiency Test before enrolling in Education 346, 347, 348.
3. Participate in the ensemble group or groups appropriate to the major performance medium.
4. Present a satisfactory public solo performance before graduation.
5. Meet all senior division and residence requirements as outlined on page 143 and a minimum of 196-197 academic hours.

## DEPARTMENT OF SPEECH AND DRAMA

The Department of Speech and Drama provides specialized training in general speech, drama and theatre, radio and television, and speech correction. However, many of the courses are open to students who wish to enrich their knowledge and heighten their appreciation of speech and the arts of the theatre. The purpose of the course 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 are 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.

**RADIO AND TELEVISION.** The department offers a major in radio-television with emphasis on practical training and laboratory experience under faculty

supervision. The core curriculum is a combination of liberal arts courses supplemented with basic courses in speech and drama.

THALIAN-BLACKFRIARS, ZETA PHI ETA, AND PI KAPPA DELTA. Three honorary societies offer recognition to outstanding students in drama, radio-television, general speech, and speech correction by election to membership in Thalian-Blackfriars, the University of Georgia theatre honorary society; Zeta Phi Eta, national speech arts fraternity for women; and in Pi Kappa Delta, National Honorary Forensics Society.

THE SPEECH AND HEARING CLINIC. The general diagnostic services of the Speech and Hearing Clinic are available to individuals who have speech or hearing problems. The functions of the clinic are part of the training program in Speech Correction. Individuals interested in receiving help should contact the Speech and Hearing Clinic for individual and group therapy.

INTERCOLLEGIATE DEBATE. The Department of Speech and Drama assists the University of Georgia in sponsoring intercollegiate forensics activities. All interested students are invited to participate.

## BACHELOR OF FINE ARTS—MAJOR IN SPEECH AND DRAMA

### REQUIRED COURSES IN JUNIOR AND SENIOR YEARS

#### 1. SPEECH AND DRAMA

JUNIOR		SENIOR	
	Hours		Hours
Science (1) .....	10	Speech 530 .....	5
Speech 486 or 487 .....	5	Drama 560 .....	5
Speech 350 .....	5	Drama 561 .....	5
Drama 535 .....	5	Drama 544 .....	5
Drama 536 .....	5	Speech 591 .....	5
Drama 429 .....	5	Electives .....	25
Electives .....	10		
<hr/>		<hr/>	
Total .....	45	Total .....	50

#### 2. SPEECH DRAMA EDUCATION

JUNIOR		SENIOR	
	Hours		Hours
Science (1) .....	10	Education 335.5 .....	5
Education 303 .....	5	Education 336.5 .....	5
Education 304 .....	5	Education 346.5 .....	5
English 304, 305, 440, or 441 .....	5	Education 347.5 .....	5
English 310 .....	5	Education 348.5 .....	5
Speech 350 (or 310) .....	5	Speech 530 .....	5
Speech 486 (or 487) .....	5	English 420 .....	5
Speech 591 .....	5	English 422 .....	5
	—	Drama 560 .....	5
<hr/>		<hr/>	
Total .....	45	Total .....	45

*This curriculum (190 hours) gives the student Professional Teaching Certification.\**

(1) See Item 2B, page 141. Non-laboratory (or laboratory) science in option II(a).

## 3. SPEECH CORRECTION

JUNIOR		SENIOR	
	Hours		Hours
Psychology 415 .....	5	Psychology 423 or Sociology 427..	5
Psychology 490 .....	5	Education 346.16 .....	5
Education 303 .....	5	Education 347.16 .....	5
Education 304 .....	5	Education 348.16 .....	5
Education 335.4 .....	5	Speech 474 .....	5
Education 336.4 .....	5	Speech 476 .....	5
Speech 310 .....	5	Speech 591 or 593 .....	5
Speech 412 .....	5	Electives .....	15
Speech 470 .....	5		—
Speech 471 .....	5		

Total ..... 50                      Total ..... 50

*This curriculum (190 hours) leads to Professional Teacher Certification and with completion of required Speech Clinic clock hours meets Basic Certification of American Speech and Hearing Association.\**

## 4. RADIO-TELEVISION-DRAMA

JUNIOR		SENIOR	
	Hours		Hours
Science (1) .....	10	Drama 560 .....	5
Drama 544 .....	5	Drama 561 .....	5
Drama 545 .....	5	Drama 429 .....	5
Drama 546 .....	5	Speech 530 .....	5
Speech 486 or 487 .....	5	Speech 591 .....	5
Speech 350 .....	5	Electives (Senior Division) .....	25
Drama 535 .....	5		—
Drama 536 .....	5		

Total ..... 45                      Total ..... 50

Recommended Electives: Drama 582, 583, 585.

For all students: a minimum of 185 academic hours and the fulfillment of Items 7-11 inclusive, page 143.

## CURRICULUM IN ARTS AND LAW

Combined A.B.-LL.B. Program

(An Eighteen-Quarter Combined Curriculum)

Adviser: LOTHAR L. TRESP

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	Literature .....	10
Mathematics 100 .....	5	(See Item 1B, page 140)	
Human Biology 101-102, or Bot- any 110-111, or Physical Sci- ence 101 (Physics 120) and either Chemistry 121 or Geography 104 .....	10	History 111-112 .....	10
		Laboratory Science .....	10
		(See Item 2B, page 141)	
		Social Studies .....	10
		(See Item 4C, page 142)	

\*Courses must be approved by major professor, Dean of Arts and Sciences and Dean of College of Education.

(1) See Item 2B, page 141. Non-laboratory (or laboratory) science in option II(a).

Foreign Language 103-104 _____	10	Electives .....	5
(See Item 1D, page 141)		Military Science 2 or	
Political Science 101 .....	5	Air Science 6 .....	6
Social Studies .....	5	Physical Education 2 (for men) ..	0
(See Item 4C, page 142)		Physical Education 2	
Military Science 1 or		(for women) .....	5
Air Science 5 .....	6		
Physical Education 1 (for men) ..	0		
Physical Education 1			
(for women) .....	5		
<hr/>			
Total .....	50-51	Total .....	50-51

JUNIOR YEAR\*

		Hours
History 351 or 352 .....		5
Philosophy 358 .....		5
Classical Culture 301-302 .....		10
(See Item 1C, page 140)		
Fine Arts 300 .....		5
Electives .....		30
(Of which four or more courses must be numbered 200 or above in Arts and Sciences).		
<hr/>		
Total .....		55

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 and Item 11, page 143.

For language requirement see Item 1D in list of total requirements, page 141.

SENIOR

Ordinarily a student who is admitted to Law School after three years of academic work must have an above average academic record and a satisfactory score in the Law School admission test.

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

CURRICULUM IN SCIENCE AND MEDICINE

(Combined B.S.-M.D. Program)

Advisers: PRESTON E. HUNTER AND JOHN W. NUTTYCOMBE

PRE-MEDICAL PROGRAM

Most students will find it necessary to have a degree before they gain admittance to either the Medical College of Georgia or to any other medical school and are therefore advised to follow the regular four year program as outlined on pages 140-143 which leads to the A.B. or B.S. degree. However, students of outstanding ability who plan either to enter the Medical College of Georgia or to seek, without a degree, admittance to some other medical school may take the Combined B.S.-M.D. program outlined below:

\*See page 83 for regulations in regard to taking extra hours.

## FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	Literature .....	10
Mathematics 100-101 .....	10	(See Item 1B, page 140)	
French 103 or German 103 .....	5	Economics 105 or Sociology 105 ..	5
Political Science 101 .....	5	Zoology 225-226 .....	10
Chemistry 121-122 .....	10	Physics 127 and 128 .....	10
Zoology 124 .....	5	Chemistry 223 .....	5
Military Science 1 or		Psychology 101 .....	5
Air Science 5 .....	6	Military Science 2 or	
Physical Education 1 (for men) ..	0	Air Science 6 .....	6
or		Physical Education 2 (for men) ..	0
Physical Education 1		or	
(for women) .....	5	Physical Education 2	
		(for women) .....	5
<hr/>		<hr/>	
Total .....	50-51	Total .....	50-51

## \*JUNIOR YEAR

	Hours
Chemistry 340, 341, 380 .....	15
Physics 229 .....	5
History 111-112 .....	10
Zoology 355 .....	5
Electives*** (courses numbered 200 or above in Arts and Sciences) .....	15
Total .....	50

(A student will find it difficult to meet the minimum requirements of 140 academic hours\* unless he is prepared to take either French 103 or German 103 upon entrance to the University)\*\*

Three quarters of residence work, including 45 hours, 30 of which must be 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 and Item 11 page 143.

## SENIOR YEAR

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.

## CURRICULUM IN SCIENCE AND VETERINARY MEDICINE

(Combined B.S.-D.V.M. Program)

Advisers: PRESTON E. HUNTER AND JOHN W. NUTTYCOMBE

This program is designed for those students who wish to obtain both the B. S. and D.V.M. degrees. Under this program a student may after the successful completion of his first year in the University of Georgia School of Veterinary Medicine receive the B.S. degree. The curriculum, for the first two years, is the same as that in the B.S.-M.D. program outlined above with the exception that Dairy 103, Animal Husbandry 101 and Poultry Husbandry 160 must also be taken; and Botany 121 replaces Zoology 124.

\*See residence rules, page 33.

\*\*See Item 1D, page 141 for language requirements under regular B.S. degree.

\*\*\*Electives as needed to meet senior division requirements. Ten hours is minimum.



## JUNIOR YEAR

	Hours
Chemistry 340, 341, 342, 380 .....	20
Physics 229 .....	5
History 111-112 .....	10
Plant Pathology 358 .....	5
Animal Husbandry 358 .....	5
Speech 108 .....	5
Electives* (courses numbered 200 or above in Arts and Sciences) .....	5-10
Total .....	55-60

Three quarters of residence work, including at least 45 hours, 30 of which must be in courses numbered 200 or above in the College of Arts and Sciences, will be required after admission to senior division standing.

## SENIOR YEAR\*\*

Satisfactory completion of the first year's work at the School of Veterinary Medicine, University of Georgia, and a total of 185 academic hours. See Item 11, page 143.

## FIVE-YEAR PROGRAM FOR COMBINED B.S. AND B.S. ENGINEERING DEGREES

The University of Georgia cooperates with the Georgia Institute of Technology in giving a five-year program leading to a B.S. degree from the University of Georgia and the B.S. degree in Engineering from the Georgia Institute of Technology. All students interested in this program should see the Dean of the College of Arts and Sciences.

## B.S. DEGREE WITH A MAJOR IN MEDICAL TECHNOLOGY

Adviser: JOHN W. NUTTYCOMBE

The College of Arts and Sciences cooperates with the Medical College of Georgia in giving a B.S. degree with a major in Medical Technology upon completion of 155 hours work at the University and 30 quarter hours at the Medical College of Georgia. The work at the University of Georgia consists of the following courses:

	Hours
English 101-102, 121-122 .....	20
Political Science 101 .....	5
History 111-112 .....	10
Mathematics 100-101 .....	10
Foreign Languages .....	10-15
(15 hrs. or 10 hrs. plus elective. See 1D, page 141)	
Social Science .....	20
(4 courses. See Item 4C, page 142)	
Physics (two courses from 127, 128, 229) .....	10
Chemistry 121, 122, 123, 223, 340, 341, 380 .....	30
Human Biology 101-102 or Zoology 124 .....	5-10

\*Electives as needed to meet senior division requirements.

\*\*American and Georgia History requirements must be satisfied before admission to School of Veterinary Medicine.

Zoology 225-226 .....	10
One course from the following: .....	5
(Bacteriology 410, Entomology 300, 376, Zoology 357, 372, 390)	
Bacteriology 350, 409 .....	10
Elective* .....	5-0
<hr/>	
Total .....	155

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.

Before acceptance by the Medical College of Georgia the student must have completed all of his work at the University with a graduating average and he must also have met the requirements of Item 11, page 143.

Clinical work will be done in the Eugene Talmadge Memorial Hospital. The work at the Medical College of Georgia consists of the following courses given over a period of twelve months.

Medical Microbiology, Biochemistry, Clinical Pathology, Hematology, and Immunology.

The B.S. degree with a major in either the Biological or Physical Sciences would, also, equip a student to go into Medical Technology training. In other words, the student does not have to take the combined degree but may take the straight B.S. degree before beginning his technician's training.

## FRESHMAN YEAR—NURSING PROGRAM\*\*

The University of Georgia cooperates with the Medical College of Georgia in giving a 12 quarter program in nursing. The nursing program, when taken at the University, consists of 3 quarters of work in Athens and the remaining 9 quarters in Augusta at the Medical College of Georgia. The 12 quarter program is planned over a 4 year academic period of time with summers free. Upon successful completion of the course, the degree of Bachelor of Science in Nursing is given by the Medical College of Georgia.

Information concerning admission to the School of Nursing at the Medical College of Georgia can be obtained from the Registrar, Medical College of Georgia, Augusta, Georgia.

The three quarters of work at the University of Georgia consists of the following courses:

English 101-102 .....	10
History 111-112 .....	10
Chemistry 121***, (5), 261, (5) .....	5
Zoology 101***, (5), 312, 313 .....	10
*Political Science 101 .....	(5)
*Survey of American History 100 .....	(5)
Psychology 101 .....	5
Physical Education 1-2 .....	5
Total .....	55-65

\*Electives as needed to give a minimum of 155 academic hours and to meet senior division requirements.

\*\*This program does not lead to a degree from the College of Arts and Sciences.

\*\*\*Students entering the University of Georgia must complete Zoology 101 and Chemistry 121 during the summer quarter prior to the freshman year of work if they wish to complete the freshman year of work in one academic year.

## TWO-YEAR PRE-VETERINARY MEDICINE PROGRAM\*\*

Advisors: PRESTON E. HUNTER AND JOHN W. NUTTYCOMBE

### FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	Speech 108 .....	5
Mathematics 100-101 .....	10	Dairy 103 .....	3
Political Science 101 .....	5	Animal Husbandry 101 .....	3
Chemistry 121-122 .....	10	Poultry Husbandry 160 .....	3
Botany 121-122 .....	10	Zoology 225-226 .....	10
Military Science 1 or		Chemistry 340, 341, 342 .....	15
Air Science 5 .....	6	Physics 120 .....	5
Physical Education 1 (for men) ..	0	Animal Husbandry 358 and	
or		either Zoology 401 or	
Physical Education 1		Plant Pathology 358 .....	10
(for women) .....	5	Military Science 2 or	
		Air Science 6 .....	6
		Physical Education 2 (for men) ..	0
		or	
		Physical Education 2	
		(for women) .....	5
Total .....	50-51	Total .....	59-60

## TWO-YEAR PRE-PHARMACY PROGRAM\*\*

Adviser: MONA MAYHORN

In order to be admitted to the professional program in the School of Pharmacy, the student must have completed a minimum of 90 quarter hours of pre-pharmacy courses as specified below, exclusive of Basic Military Science and Physical Education. Students with high academic average, having 90 hours of credit may be admitted with not more than 15 quarter hours of deficiencies in required courses, provided such deficiencies may be completed during the first professional year.

### FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
Chemistry 121, 122, 223 .....	15	English 121 or 122 .....	5
English 101, 102 .....	10	Human Biology 101-102 .....	10
Mathematics 100 .....	5	Zoology 226 .....	5
Political Science 101 (3) .....	5	Physics 127 .....	5
Economics 105 .....	5	History (2) .....	5
Elective (1) .....	5	Mathematics 101 .....	5
Military Science 1 or		Electives (1) .....	10
Air Science 5 .....	6	Military Science 2 or	
Physical Education 1 (for men) ..	0	Air Science 6 .....	6
or		Physical Education 2 (for men) ..	0
		or	

\*The State requirement covering the Constitution of the United States and Georgia may be satisfied either by exemption examination or by completing Political Science 101 (5 hours). The State requirement covering the History of the United States and Georgia must be met by passing the examination in this area or completing History 100 (5 hours).

\*\*This program does not lead to a degree from the College of Arts and Sciences.

Physical Education 1 (for women) -----	5	Physical Education 2 (for women) -----	5
Total -----	50-51	Total -----	50-51

Upon completion of this program, the student will be eligible to apply for admission to the School of Pharmacy. Application should normally be made to the Dean of the School of Pharmacy during the winter quarter of the sophomore year.

### DEPARTMENTAL ANNOUNCEMENTS

The University reserves the right to withdraw any course for which the registration is not sufficiently large.

In general, courses 100-199; 200-299; 300-399 and 400-499 are for freshmen, sophomores, juniors and seniors respectively. However, after a student has been admitted to senior division standing, all courses numbered 200 or above may count as senior division courses.

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

## ART

Visual Arts Building, North Campus

Head: Dodd. Staff: Amos, Arnholm, Burgart, DeLonga, Dieball, Dietemann, Herbert, McCutchen, McKinnell, Morgan, Park, Popovich, Sanderson, Schwarz, Thomas, Walker, Wescott, Young.

### ART APPRECIATION AND CRITICISM

H-113 (213). ART APPRECIATION AND EXPERIENCE. (Honor's course for non-Art majors). *Mr. Dodd, Mr. Schwarz, Mr. Thomas.*

The course will combine lectures, discussions and studio experiences. This latter feature distinguishes the content of this course from the conventional art appreciation offering.

435. ART STRUCTURE. Prerequisite: Four Fine Arts courses, two of which must be in the senior division. *The Staff.*

Study of the theory of art. Designed as a general elective for advanced students of other departments.

### BASIC DESIGN AND DRAWING

120. ART STRUCTURE. Five laboratory periods. *The Staff.*

Drawing and painting from slides, still life, figure, landscape, modeling in clay. Two visual-audio lectures per week.

130. ART STRUCTURE. Five laboratory periods. *The Staff.*

Problems with emphasis on lettering and layout design. Three-dimensional work in clay, plaster, and wood. Two visual-audio lectures per week.

140. ART STRUCTURE. Five laboratory periods. *The Staff.*

Drawing and painting. Experience in the manipulation of various three-dimensional materials, wood, paper, metal and synthetics. Two visual-audio lectures per week.

216. DRAWING. 3 hours. Three laboratory periods. *The Staff.* Prerequisites: Art 120, 130, 140 or permission of instructor.

Drawing from setups, figures, animals and objects. Charcoal, pen, brush and ink, water color, oil, and various media are used.

217. DRAWING. 3 hours. Three laboratory periods. *The Staff.* Prerequisites: Art 120, 130, 140, 216 or permission of instructor.

Continuation of Art 216.

218. DRAWING AND PAINTING. 3 hours. Three laboratory periods. *The Staff.* Prerequisites: Art 120, 130, 140, 216, 217 or permission of instructor.

A continuation of Art 216 and 217.

(1) Electives should be chosen from the Humanities, Social Sciences, Psychology or languages and should not be in Science, Business or applied courses.

(2) The History Qualifying Examination will not fulfill this requirement.

(3) Passing the Georgia and Federal Constitutional Examinations will not fulfill this requirement.

## PHOTOGRAPHY

320. PHOTOGRAPHIC DESIGN. Prerequisites: Art 120 or consent of instructor. *Mr. Sanderson.*

Creative design through the use of photography. The student will investigate the experimental possibilities of the entire area of the light sensitive medium.

## DRAWING, PAINTING, AND COMPOSITION

313. PRINTMAKING. Prerequisites: Art 120, 130, 140, 216, 217, 218 or consent of instructor. *Mr. Morgan.*

An examination of the various printmaking or graphic techniques such as lithography, etching, engraving, drypoint, aquatint and block printing and the execution of original works in these media.

321. DRAWING AND COMPOSITION. Four laboratory periods and one lecture. Prerequisite: Art 120. *The Staff.*

Picture construction through design and composition.

322. DRAWING AND MODELING. Four laboratory periods and one lecture.

Prerequisite: Art 321. *The Staff.*

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

323. DRAWING AND PAINTING. Four laboratories and one lecture. Prerequisite: Art 321. *Mr. Dodd* and *Mr. DeLonga.*

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

331. PAINTING. Four laboratory periods and one lecture. Prerequisites: Two drawing courses. *Mr. Thomas* and *Staff.*

Introductory painting. Aesthetic consideration of picture structure.

332. PAINTING. Four laboratory periods and one lecture. Prerequisite: Art 331. *Mr. Thomas* and *Staff.*

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

333-334. PAINTING. Four laboratory periods and one lecture. Prerequisite: Art 332. *Mr. Thomas* and *Staff.*

Advanced painting.

341. WATERCOLOR. Five laboratory periods. Prerequisites: one design and one drawing course. *Mr. Thomas.*

Study of transparent watercolor.

342. WATERCOLOR. Five laboratory periods. Prerequisite: Art 341. *Mr. Thomas.*

Continuation of 341 with emphasis upon opaque watercolor (Gouache).

702. DRAWING AND COMPOSITION. Five laboratory periods. Prerequisites: Art 332 and 334. *Mr. Dodd*, *Mr. DeLonga*, and *Mr. Thomas.*

703. DRAWING AND COMPOSITION. Five laboratory periods. Prerequisite: Art 702. *Mr. Dodd*, *Mr. DeLonga*, and *Mr. Thomas.*

731. PAINTING. Five laboratory periods. Prerequisites: Art 332 and 334. *Mr. Dodd*, *Mr. DeLonga*, and *Mr. Thomas.*

732. PAINTING. Five laboratory periods. Prerequisite: Art 731. *Mr. Dodd*, *Mr. DeLonga*, and *Mr. Thomas.*

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

804. DRAWING AND COMPOSITION. Five laboratory periods. Prerequisite: Art 703. *Mr. Dodd.*

833. PAINTING. Five laboratory periods. Prerequisite: Art 732. *Mr. Dodd* and *Mr. Thomas.*

921. ART PROBLEMS. *The Staff.*

The project may take the form of original creative works of professional standards together with a written report in which use is made of photographs or drawings, or both.

## 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 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.

*Art History courses numbered 300 or above have prerequisites of Art 287, 288 and 289 or permission of instructor.*

H-111 (211). THE HISTORY OF THE VISUAL ARTS AS RELATED TO MAN (Honors). *The Staff.*

An interpretive study of the primary art movements of the Western world from their rudimentary beginnings as seen in the arts of primitive man up through the visual arts on the contemporary scene.

287. INTRODUCTION TO THE HISTORY OF ANCIENT ART. 3 hours. *The Staff.*

A survey of world art from Prehistoric through Medieval times. The formal characteristics of the paintings, sculpture, architectural and some of the minor arts will be analyzed in their stylistic and symbolic developments which will be discussed in relation to the changing cultural backgrounds.

288. INTRODUCTION TO THE HISTORY OF RENAISSANCE ART. 3 hours. *The Staff.*

A survey of world art during Renaissance times and up to the Nineteenth Century. The formal characteristics of painting, sculpture, architecture and some of the minor arts will be analyzed in their stylistic and symbolic developments which will be discussed in relation to the changing cultural backgrounds.

289. INTRODUCTION TO THE HISTORY OF MODERN ART. 3 hours. *Mr. Walker.*  
A survey of world art during the 19th and 20th centuries. The formal characteristics of the painting, sculpture, architecture and some of the minor arts will be analyzed in their stylistic and symbolic developments which will be discussed in relation to the changing cultural backgrounds.

411. AESTHETICS. (See Philosophy 411).

476. HISTORY OF HELLENIC ART. *Miss Popovich.*

A specialized study of Hellenic architecture, sculpture, painting, and minor arts of the Archaic, Transitional, Fifth Century, Fourth Century, Alexandrian, and Graeco-Roman periods as well as the important periods of Classical Revival in Europe and America. Both literary and Archaeological sources will be used.

480. ART OF THE ITALIAN RENAISSANCE. *Mr. Walker and Staff.*

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

481. HISTORY OF NORTHERN RENAISSANCE ART. *Mr. Walker and Staff.*

Historical study of the architecture, sculpture, painting, and minor arts north of the Alps from the waning of the Medieval period to around the beginning of the seventeenth century. The artistic achievements in France, Germany, England, and the Low Countries will be presented against the background of their political, social, and literary accomplishments.

483. MODERN ART HISTORY. Prerequisites: Art 287, 288, 289 or permission of instructor. *Mr. Walker and Staff.*

The stylistic and theoretical bases of painting, architecture and sculpture as they developed during the 19th Century and to the present. The contribution of leading figures and movements instrumental in forming the art of today.

484. BAROQUE ART. *The Staff.*

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. Special study is given to such major artists as Bernini, El Greco, Velasquez, Rubens, Rembrandt, Vermeer, Poussin, and Watteau.

487. THE ARTS OF THE UNITED STATES. *The Staff.*

Architecture, sculpture, painting and the minor arts of the United States from Colonial times to the present. The relationship of the arts to the historical and social backgrounds from which they arise; the contribution of American Art to the general field of artistic developments.

488. ART OF PRE-COLUMBIAN AMERICA. Prerequisites: Art 287, 288, 289 or permission of instructor. *Mr. Walker.*

The art product of America from earliest times through the 15th Century with emphasis given to the pre-Inca and Inca peoples of South America and the Maya, Zapotec, Toltec, Aztec and related peoples of Mexico and Central America.

489. POST-COLUMBIAN LATIN AMERICA ART. Prerequisites: Art 287, 288, 289 or permission of instructor. *Mr. Walker.*

A study of the unique product resulting from the combination of Western Culture with native arts in Latin America from the 15th Century to the present.

491. MEDIEVAL ART. Prerequisites: Art 287, 288, 289 or permission of instructor. *Miss Popovich.*

Begins with the collapse of antique civilization and traces the subsequent art historical developments of architecture, sculpture, painting, and the minor arts in the succeeding period of the Middle Ages. A review of Roman and Early Christian Art, the progression of Byzantine artistic endeavor in the East and of Romanesque and Gothic in the West, concluding with the rise of realism in Europe in the fifteenth century.

880-881. SPECIAL PROBLEMS IN HISTORY OF ART. *Seminar*. Prerequisites: Graduate standing and permission of faculty. *The Staff*.

A seminar taking in successive years the creative achievements of a given culture such as the Italian Renaissance, the Middle Ages, the Industrial Revolution, etc. Problems of cultural influence on art, of stylistic analysis, of the connoisseurship will be selected for individual research and group presentation and discussion.

### ADVERTISING DESIGN AND COMMERCIAL ART

306. ADVERTISING. DESIGN. I. Four laboratory periods and one lecture. Prerequisites: Art 216, 217, 218, 308 and 310. *Mr. Dieball*.  
Visual communication and graphic techniques.

308. ADVERTISING LAYOUT. Three laboratory periods and two lectures. *Mr. Dieball and Staff*.  
Fundamentals of color, design, typography, and reproduction related to modern advertising problems. Layout of newspaper, magazine, and direct-mail advertising.

309. ADVERTISING DESIGN II. Four laboratory periods and one lecture. Prerequisites: Art 306, 310, 331 or 341. *Mr. Dieball*.  
Continuation of Art 306. Advanced problems in advertising design including preparation of layouts, comprehensive and finished art, study of reproduction problems.

310. LETTERING. Four laboratory periods and one lecture. Prerequisite: Art 130. *Mr. Dieball and Staff*.  
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

251. CRAFTS. Five laboratory periods. Prerequisites: Art 130 or approval of instructor. *Mr. Sanderson*.  
Metal work, jewelry, weaving, textile printing, and wood work. An elective for students in other departments.

350. WEAVING. Five laboratory periods. Prerequisites: Art 130 or 355. *Mr. Sanderson*.  
Hand-weaving designed for contemporary living. Experience in drapery, upholstery, and suiting with emphasis on color and texture.

351. TEXTILE DESIGN AND PRINTING. Five laboratory periods. Prerequisites: Art 130 and 216. *Mr. Sanderson*.  
A course in designing and producing contemporary fabrics by silk screen method.

352. JEWELRY AND METAL WORK. Five laboratory periods. Prerequisites: Art 130, 140, and 216. *Mr. Sanderson*.  
A thorough grounding in the techniques necessary to execute well-designed objects in metals including forming, repousse, stone setting, tool making, metal finishing, enameling and centrifugal casting.

355-356. CRAFTS. Three hours each. Three laboratory periods. Prerequisite: Art 130. *Mr. Sanderson*.  
Introductory course in weaving, tie and dye, and batik.

550. TEXTILE DESIGN AND PRINTING. Prerequisites: Two Senior Division Art courses including Art 351, and approval of instructor. *Mr. Sanderson*.

An exploration into the creative potentialities of silk screen designing and printing methods, making use of film stencil, tusche, block-out, and the photo stencil methods.

552. JEWELRY AND METAL WORK. Prerequisites: Two Senior Division art courses including Art 352, and instructor's approval. *Mr. Sanderson*.

An advanced course in design and fabrication in metal. Creative sculptural use of metal as applied to the human module, whether decorative or functional. Exploration in centrifugal casting, alloying, raising, chasing, lapidary, plating, and allied techniques.

### CERAMICS

260. 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. Three hours. Three laboratory periods. *Miss Amos and Mr. McCutchen*.

An elementary course in pottery designed for those students desiring a three hour elective course. Laboratory exercises in handbuilding pottery forms, decorating, glazing, and firing ceramic ware.

361. POTTERY. Four laboratory periods and one lecture. Prerequisite: Art 260. *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.

362. CERAMIC DECORATIVE PROCESSES. Four laboratory periods and one lecture. Prerequisite: Art 361. *Miss Amos* and *Mr. McCutchen*.

The ceramics of past civilizations are 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.

363. CERAMIC CALCULATIONS. Two laboratory periods and three lectures. Prerequisites: Chemistry 121-122 and Art 361. *Miss Amos* and *Mr. McCutchen*.

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

366. CERAMIC GLAZES. Four laboratory periods and one lecture. Prerequisite: Art 363. *Mr. McCutchen*.

Continuation of Art 363. Emphasis on the adaptation of the fundamentals of glaze behavior to decorative and forming processes.

367. CERAMIC PROBLEMS. Five laboratory periods. Prerequisite: Art 366. *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.

368. CERAMIC PROBLEMS. Five laboratory periods. *Mr. McCutchen*.

Continuation of Art 367.

560. ADVANCED CERAMIC DESIGN. Five laboratory periods. Prerequisites: Art 367 and 368. *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.

561. HISTORICAL PROCESSES IN CERAMICS. Five laboratory periods. Prerequisites: Art 367 and 368. *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

370. SCULPTURE. Five laboratory periods. Prerequisites: Art 120, 130, 140, 216, 217, 218 or consent of instructor. *Mr. DeLonga*.

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

371. SCULPTURE. Five laboratory periods. Prerequisite: Art 370. *Mr. DeLonga*.

Individual problems for advanced students. Stone, wood, and metal.

372. SCULPTURE. Five laboratory periods. Prerequisites: Art 370 and 371, or consent of instructor. *Mr. DeLonga*.

Introduction to oxy-acetylene as a sculptural technique. Steel will be used as a basic structural metal in the production of sculpture.

373. SCULPTURE. Five laboratory periods. Prerequisites: Art 370, 371 and 372, or consent of instructor. *Mr. DeLonga*.

Introduction to the lost-wax method of producing bronze sculpture. The production of sculpture in wax, venting of waxes, the investment of these waxes in refractory molds, the firing of the molds, and casting in bronze will constitute the major emphasis of this course.

571. SCULPTURE — CONSTRUCTION. Five laboratory periods. Prerequisites: Art 370, 371, and consent of instructor. *Mr. DeLonga*.

A course in the production of sculpture utilizing the oxy-acetylene welding technique as a sculptural method. Emphasis will be placed on construction using brass, copper, bronze and stainless steel.

572. SCULPTURE — CASTING. Five laboratory periods. Prerequisites: Art 370, 371, and consent of instructor. *Mr. DeLonga*.

The production of wax models, venting, investing, casting, chasing, and mounting of finished work will provide the student with an opportunity to carry on independent experimentation and study within the medium of cast bronze sculpture.

## ART EDUCATION

305. ART AND THE CHILD. Five laboratory periods. *Mr. Burgart* and *Staff*. The child, his development and needs in creative art experiences. Two and three dimensional laboratory experiences in drawing, painting, graphics, sculpture, and crafts appropriate in later use with children. Discussions, readings and field trips.



504. THE VISUAL ARTS IN COMMUNICATION. Prerequisites: Two senior division courses in art and consent of instructor. *Mr. Dieball.*

Creative manipulation of lettering, calligraphy, plastic patterns, and technical processes integrated toward functional communication.

513. CRAFTS FOR TEACHERS. Five laboratory periods. *The Staff.* Prerequisites: Two senior division courses and permission of instructor.

Crafts for teachers with emphasis on three-dimensional media suitable for adaptation to elementary, secondary and higher education art programs as well as integration with classroom activities.

514. DRAWING AND PAINTING FOR TEACHERS. Five laboratory periods. *The Staff.* Prerequisites: Two senior division courses and permission of instructor.

Laboratory experiences in drawing, painting and composition related to the problems of applying these various methods to elementary, secondary and higher education art programs.

515. DESIGN FOR TEACHERS. Five laboratory periods. *The Staff.* Prerequisites: Two senior division courses.

Two and three-dimensional design experiences in various media. Emphasis on teaching techniques and problems in design.

523. STUDIO PROBLEMS IN ART EDUCATION. Five laboratory periods. *Mr. Burgart and Staff.* Prerequisite: Permission of Instructor.

Specific problem areas, according to individual needs, are investigated, discussed, and evaluated.

536. ART AND THE ADOLESCENT. Three laboratory periods. *Mr. Burgart and Staff.* Prerequisites: Two senior division courses and permission of instructor.

A course emphasizing the needs and development of the pre-adolescent and adolescent in terms of creative expression. Lecture, discussion, readings.

539. SUPERVISION OF ART. Three laboratory periods. *Mr. Burgart and Staff.* Prerequisites: Two senior division courses and permission of instructor.

Readings, discussions and observations of the total educational setting in America toward creative implementation of the art program. Designed for art education majors, supervisors, and administrators.

540. ART, THE CHILD AND THE SCHOOL. Five laboratory periods. *Mr. Burgart and Staff.* Prerequisite: Permission of instructor.

Art and its relationship to the needs of the pre-school and school child. The development of the child through the creative process is examined through laboratory work, discussions, and readings toward improving teaching in the schools.

570. ORGANIC DESIGN IN CONTEMPORARY LIVING. Prerequisites: Two Senior Division courses in Education, two senior Division courses in Art, and consent of instructor. *The Staff.*

A course for advanced students in designing in terms of space, movement, and light. Abstract problems and those centered directly in life today are explored.

921. ART PROBLEMS. Prerequisites: Four courses in Education, graduate standing in art, and consent of instructor. *The Staff.*

Problem in Art Education significantly related to the student's professional tasks, and may involve either a one-man exhibition of creative endeavor; a research project; or a combination of both.

## INTERIOR DESIGN

386. 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. Prerequisites: Two from Art 216, 217, 218. *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. Prerequisite: Landscape Architecture 255. *Mr. Wescott.*

Drawing and rendering of plans and elevations; measuring and scaling of interiors and furnishings on a basis of design and functions.

390. INTERIOR DESIGN. Four laboratory periods and one lecture. Prerequisites: Landscape Architecture 255 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 255 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, evaluations, specifications, and perspective renderings.

### TECHNICAL PROBLEMS

301. 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.

302. TECHNICAL PROBLEMS. Five laboratory periods. *The Staff.* Continuation of 301.

### BACTERIOLOGY\* (BAC)

(Biological Sciences Building, South Campus; Conner Hall, Dairy Building, Food Technology Building, South Campus, Veterinary Building, South Campus.)

Head: Payne, Bennett, Carson, Eagon, Foster, Giddens, Hamdy, Howe, Kleckner, McClung, VanEseltine.

For information on additional courses in this and related fields see announcements of the School of Veterinary Medicine and College of Agriculture.

350. INTRODUCTORY MICROBIOLOGY. Three lectures and two double laboratory periods. Prerequisites: 10 hours of biological science, 5 hours of physical science, Chemistry 261 or 340, or concurrently. Biological Sciences Building. *Mr. Eagon, Mr. Howe, Mr. McClung, and Mr. Payne.*

A survey of microorganisms with special emphasis on bacteria and their relationship to man.

352. MICROBIOLOGY AND DISEASE. 3 hours. Three lectures or recitations. Prerequisite: Bacteriology 350. Biological Sciences Building. *Mr. Payne.*

Distribution and nature of specific pathogens; mechanisms of transmission, pathogenesis and defense; means of control or prevention.

389. DAIRY MICROBIOLOGY (Dairy). Three lectures or recitations and two double laboratory periods. Prerequisite: Bacteriology 350. Dairy Building. *Mr. Bennett.*

Determination of numbers and types of bacteria; use of microorganisms in the manufacture of dairy products; study of milk fermentation and disease-producing organisms sometimes occurring in milk.

395. MICROBIOLOGY OF FOODS (Food Technology). Two lectures or recitations and three double laboratory periods. Prerequisite: Bacteriology 350. Food Technology Building. *Mr. Hamdy.*

Deals with microorganisms in natural and processed foods; their origin, nature, and effects on foods; enumeration; relations to health.

H-399. CONTRIBUTIONS OF MICROBIOLOGY TO SCIENTIFIC THOUGHT. *Mr. Eagon, Mr. Howe, Mr. McClung, and Mr. Payne.*

Offered to provide honor students the opportunity to learn of the contributions to the intellectual, scientific, medical and industrial fields made by microbiology.

409. FUNDAMENTALS OF MICROBIOLOGY. Three lectures or recitations and two double laboratory periods. Prerequisite: Bacteriology 350. Biological Sciences Building. *Mr. Eagon.*

Fundamental principles and techniques of general microbiology. Attention given to structure, growth, nutrition and physiology of representative types of microorganisms.

410. IMMUNOLOGY. Three lectures and two double laboratory periods. Prerequisite: Bacteriology 409 and Chemistry 451, or consent of instructor. Veterinary Building. *Mr. Foster.*

Mechanisms of infection and host resistance; principles and techniques of serology.

411. MICROBIOLOGY OF MARKET MILK AND ICE CREAM (Dairy). Prerequisites: Dairy Bacteriology 389, Chemistry 261 or 340. Dairy Building. *Mr. Bennett.*

Microorganisms found in market milk, ice cream and related products and their relationship to spoilage of the products and to epidemiology.

\*Students may be held responsible for breakage in laboratory courses.

412. **MICROBIOLOGY OF BUTTER, CHEESE AND CULTURED MILKS (Dairy).** Prerequisites: Dairy Bacteriology 389, Chemistry 261 or 340. Dairy Building. *Mr. Bennett.*

Metabolic changes resulting from the growth of microorganisms occurring in milk and cream intended for manufacturing dairy products and in butter, cheese, and cultured milks; bacteriophage affecting microorganisms.

421. **MICROBIAL FOOD ANALYSIS (Food Technology).** Prerequisite: Food Technology 414. One lecture and two 4-hour laboratories. Food Technology Building. *Mr. Hamdy.*

Microbiological, physical, and mathematical considerations involved in determining thermal death times, rates of heat penetration, and in calculating the lethality of processes with particular reference to spore-forming anaerobes.

422. **PATHOGENIC BACTERIOLOGY.** Three lectures and two double laboratory periods. Prerequisite: Bacteriology 410. Veterinary Building. *Mr. Van Eseltine.*

Studies on the morphological, cultural and physiological properties of the important pathogenic bacterial and mycotic agents, their relation to health and disease.

440. **ELECTRON MICROSCOPY.** Five recitations or laboratory periods. Prerequisite: Bacteriology 409 or consent of instructor. Biological Sciences Building. *Mr. McClung.*

Methods of preparation and examination of biological materials by electron microscopy. A survey of the literature and theory of the instrument. Student preparations and interpretation of results.

450. **VIROLOGY.** Three lectures and two double laboratory periods. Prerequisite: Bacteriology 410. Veterinary Building. *Mr. Foster.*

An introduction to the viruses and rickettsiae; principles and methodology.

461. **MICROBIOLOGY OF SOILS (Agronomy).** Three lectures or recitations and two double laboratory periods. Prerequisites: Bacteriology 350; Agronomy 458, or consent of the instructor. Conner Hall. *Mr. Giddens.*

A survey of the microorganisms occurring in the soil; their activities and effects on soils and crops; factors affecting them; enumeration.

470. **MEDICAL MYCOLOGY.** Two lectures or recitations and three double laboratory periods. Prerequisite: Bacteriology 350. Biological Sciences Building. *Mr. McClung.*

A survey of the yeasts, molds and actinomycetes most likely to be encountered by the bacteriologist with special emphasis on the forms that are pathogenic for man and animals.

480. **MICROBIAL GENETICS** Three lectures and two laboratory periods. Prerequisites: Bacteriology 350; Zoology 370. Biological Sciences Building. *Mr. Howe.*

A study of the genetics of microorganisms.

800. **INDUSTRIAL FERMENTATIONS (Food Technology).** Three lectures and three double laboratory periods. Prerequisites: Bacteriology 350, and Chemistry 451. Food Technology Building. *Mr. Hamdy.* (Offered alternate years. Offered in 1963-64.)

The ketogenic fermentation process, production of organic acids, enzymes, vitamins, antibiotics, dextran and other products from agricultural or industrial starting materials. Emphasis on theoretical or fundamental reactions.

810. **IMMUNOCHEMISTRY.** Two lectures and three double laboratory periods. Prerequisite: Bacteriology 410 or consent of instructor. Veterinary Building. *Mr. Foster.* (Offered alternate years. Offered in 1963-64.)

Detailed investigation into the chemistry of antigenically active substances and mechanisms of immunological reactions. Lecture emphasis will be on current literature.

816. **SEMINAR IN MICROBIOLOGY.** One hour per week. Available to majors in bacteriology, zoology, plant sciences, agriculture, with two courses in bacteriology as prerequisite. Required for all graduate students in bacteriology throughout residence. Biological Sciences Building. *The Staff.*

Meetings for discussion of research and new developments in the field.

820. **ADVANCED PATHOGENIC MICROBIOLOGY.** Prerequisite: Bacteriology 422 and 450. Veterinary Building. *Mr. Kleckner and Staff.*

A detailed study of the pathogens and their relationship to diseases.

860. **PHYSIOLOGY OF BACTERIA.** Five double periods. Prerequisites: Bacteriology 350, 409; Chemistry 451, or equivalent. Biological Sciences Building. *Mr. Eagon, Mr. Payne and Mr. Carson.*

Survey of the physiology and metabolism of microorganisms.

900. PROBLEMS IN BACTERIOLOGY. Maximum credit of 50 hours, with no more than 10 hours applying to any one degree. Must be preceded by adequate preparation in bacteriology. *The Staff.*

Allows students to pursue intensive study under the direction of staff members, on approved problems in medical, agricultural, marine, and general microbiology.

## BIOLOGICAL SCIENCES

Bacteriology—See page 170.

Botany—See below.

Entomology—See page 185.

Zoology—See page 229.

### BOTANY\* (BOT)

(Biological Sciences Building, South Campus)

Head: Van Fleet. Staff: Beck, Brown, Carlton, Duncan, Edmisten, James, Michel, Mulcahy, Plummer, Webb, Westfall.

110. PLANT BIOLOGY AND MAN. No credit will be allowed for Botany 110 if credit is shown for Botany 121. Five one-hour periods.

Basic studies of life, employing a variety of plant materials and emphasizing the relationship of structures and processes to the welfare of man.

111. PLANT BIOLOGY AND MAN. (continued). No credit will be allowed for Botany 111 if credit is shown for Botany 122. Five one-hour periods.

A study of the reproduction, heredity, evolution, and environmental relationships of representative groups of plants, emphasizing economic and cultural applications.

121. ELEMENTARY BOTANY. Not open to students who have credit for Botany 110. 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 environments.

122. ELEMENTARY BOTANY (continued). Not open to students who have credit for Botany 111. 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 other major plant groups and their importance.

H-123. ELEMENTARY BOTANY (HONORS). Not open to the students with credit in Botany 110-111 or 121-122. 5 hours. Available for honor students only. This course replaces Botany 110 and 111. Five lecture, laboratory and discussion periods. *Mr. Brown*

Biological concepts in the analysis of plants.

302. SPECIAL PROBLEMS IN BOTANY. Independent research and research participation in selected problems. Prerequisites: two senior division courses in Botany. *The Staff.*

305. IDENTIFICATION OF FLOWERING PLANTS. Five two-hour lecture-laboratory periods with two all-day field trips. Prerequisites: None, Botany 110-111 or Botany 121-122 are recommended. Spring Quarter. *Mr. James and Mr. Mulcahy.*

Terminology and procedure in the identification of flowering plants.

306. IDENTIFICATION OF TREES AND SHRUBS. Five two-hour lecture-laboratory periods. Prerequisites: None, Botany 110-111 or Botany 121-122 are recommended. Fall Quarter. *Mr. James.*

Identification of trees and shrubs including identification in winter condition.

323. ELEMENTARY PLANT ANATOMY. Five two-hour laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122. *Mr. Carlton.*

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 110-111 or Botany 121-122. *Mr. Carlton.*

Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant materials for microscopic study.

\*Students may be held responsible for breakage in laboratory courses.

**375. PLANT ECOLOGY.** Three one-hour lecture discussion periods, two double periods of field trips or laboratory per week, and/or occasional week-end field trips. Prerequisites: Botany 121-122 or Botany 110-111. *Mr. Plummer and Mr. Edmisten.*

Plant geography, community analysis, symbiosis, species populations, limiting factors, cycles, rhythms, and applied implications. Fall quarter: synecology; Spring quarter: autecology; Summer quarter: field trips.

**380. PLANT PHYSIOLOGY.** Three one hour lectures and two double laboratory periods. Prerequisites: Botany 121-122 or Botany 110-111. *Mr. Beck.*

A survey of physiological processes occurring in economic plants and the conditions which effect these processes.

**401. PHYSIOLOGY OF WOODY PLANTS (Forestry).** Three lectures and two double laboratory periods. Prerequisites: Botany 380 or Forestry 203, or Horticulture 308. *Mr. Brown.*

Special topics in water relations, nutrition, photosynthesis, shoot and root development, dormancy, cambial activity, and reproduction in woody plants.

**471. TAXONOMY OF SEED PLANTS.** Five double laboratory periods. Prerequisites: Botany 305 or equivalent and any other senior division course in botany or approved course in plant pathology, forestry, or geography. *Mr. Duncan.*

Identification and classification of seed plants with emphasis on the flora of the southeastern states.

**473. IDENTIFICATION OF GRASSES.** Five double laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122 and two senior division courses in botany or approved courses in other plant sciences. *Mr. Duncan.*

Identification and classification of grasses with emphasis on structure and ecology. Numerous economically important species are included.

**476. VEGETATION OF NORTH AMERICA.** Six hours library-laboratory, three hours seminar per week and a week-end field trip. Spring quarter. Prerequisites: Fifteen hours credit in botany, geology and geography, or agriculture. *Mr. Plummer.*

Theories of plant geography, climax formations, and the causes of contemporary vegetation. Include floristics, indicator plants and problems in land utilization. Emphasizes eastern North America.

**477. AUTECOLOGY.** Four hours library — laboratory, three hours lecture—seminar. Prerequisites: Botany 375, 380 or consent of instructor. *Mr. Plummer.*

Emphasizes environmental factors connected with the welfare of plants related to function, and evolution. Includes aspects of biological factors and radiation ecology.

**482. NUTRITION OF GREEN PLANTS.** Two lectures and three double laboratory periods. Botany 323 and 380. *Mr. Beck and Mr. Michel.*

A study of the nutrition of the higher plants, including major and minor elements and deficiency symptoms.

**510-511. BIOLOGY FOR HIGH SCHOOL TEACHERS.** 10 hours. Three lectures and two double laboratory periods. Prerequisites: two senior division courses in the Biological Sciences. *Mr. Westfall.*

A two-course sequence for high school biology teachers or prospective teachers of high school biology enrolled in the College of Education. No credit for students majoring in the Biological Sciences.

**520. FIELD AND LABORATORY BOTANY.** Two lectures and three double laboratory periods and special field trips. Prerequisites: Botany 121-122 or equivalent and two senior division courses in botany or education. *Mr. Westfall.*

Designed especially for teachers, emphasis on 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.

**522. ADVANCED FIELD AND LABORATORY BOTANY.** Two lectures and three double laboratory periods and special field trips. Prerequisite: Botany 520. *Mr. Westfall.*

A second course primarily for teachers, emphasizing plant identification, environmental relationships, and plant distribution.

**802 and 804. PROBLEMS IN BOTANY.** 5 hours for each course. Special research projects under the direction of staff members. Prerequisites: Two senior division courses in botany or approved courses in agriculture, geography, or forestry. *The Staff.*

830. **PRINCIPALS OF RADIOISOTOPES (Agriculture 830).** Two lectures and two three-hour laboratory periods. Winter quarter. Prerequisite: permission of the instructor.

Principles and techniques dealing with the application of nuclear radiations to plant sciences. Mr. Plummer, Coordinator for Botany.

831. **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, their development and relationships.

840. **CYTOLOGY.** Two lecture and three double laboratory periods. Prerequisites: Zoology 401, 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.

842. **CYTOGENETICS.** Two lecture and three double laboratory periods. Prerequisite: Botany 840. Credited toward a major in botany or zoology. *Mr. Westfall.*

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.

850. **MORPHOGENESIS.** Three lectures and two double laboratory periods. Prerequisites: Botany 323, 380 and 831. *Mr. Brown.*

Experimental studies on meristems, polarity and relative growth phenomena, morphogenetic factors relating to differentiation and regeneration.

860. **AQUATIC PLANTS.** Three one-hour lectures and two double laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122 and any two courses numbered above 300 in botany, entomology, or zoology which provide taxonomic training.

Taxonomy, distribution, and ecology of aquatic plants, with emphasis upon fresh-water forms and habitats. Laboratory will be a study of aquatic plants in the field.

872. **ADVANCED TAXONOMY OF SEED PLANTS.** Three lectures and two two-hour laboratory periods. Prerequisites: Consent of instructor. Spring Quarter. *Mr. James and Mr. Mulcahy.*

Experimental approaches to problems in taxonomy dealing with the species and intra-specific taxa and the various methods employed to analyze and delimit these.

887. **ADVANCED PLANT PHYSIOLOGY.** Two hours lecture and three double laboratory periods per week. Prerequisites: Botany 380 and any other senior division courses in botany, chemistry, or plant pathology. *Mr. Beck and Mr. Michel.*

An evaluation of concepts in plant physiology with special attention to the methods employed in arriving at these concepts.

888. **PLANT GROWTH AND DEVELOPMENT.** Two hours lecture and three double laboratory periods per week. Prerequisites: Botany 380 and Organic Chemistry. *Mr. Michel.*

Study of factors influencing seed germination, plant growth, and floral development, with special emphasis on the compounds affecting these processes.

890. **PLANT HISTOCHEMISTRY.** Five lecture-demonstration periods. Prerequisites: Senior division courses in Botany and Chemistry. Approval of instructor. *Mr. Van Fleet.*

Enzyme localization and differentiation, the solution of problems of function, differentiation and ion selection by histochemical methods.

## CHEMISTRY\* (CHM)

(Chemistry Building, South Campus)

Head: Pelletier. Staff: Agerton, Brockman, Coggin, Cormier, Dobson, Dure, Garst, Heric, Jacobs, Johnston, Kask, King, Lamb, McRorie, Novelli, Philbrook, Stammer, Waggoner, Walsh, Whitehead, Williams, Wilson.

### INORGANIC CHEMISTRY

111, 112. **ELEMENTARY CHEMISTRY.** Four lectures or recitations and one laboratory period per week each quarter. *The Staff and Assistants.*

A terminal, non-mathematical study of chemical principles.

121, 122. **GENERAL CHEMISTRY.** Four lectures or recitations and one lab-

\*Students may be held responsible for breakage in laboratory courses.

\*\*Not open to students with credit in chemistry. Cannot be used toward any B.S. degree.

oratory period per week each quarter. Prerequisites: Math 100 or equivalent. *The Staff and Assistants.*

The first course covers the chemistry of the non-metallic elements, including a systematic treatment of fundamental chemical principles. The second course is a continuation of the first, including a general survey of the metallic elements.

H-125, H-126. GENERAL CHEMISTRY (Honors). Not open to students with credit in Chemistry 121-122. 10 hours. Four lectures or recitations and one laboratory period per week each quarter. *Mr. Philbrook, Mr. Waggoner, or Mr. Whitehead and Assistants.*

The basic concepts of chemistry.

370, 371. INDUSTRIAL CHEMISTRY. Five lectures per week each quarter. Prerequisites: 370—Chemistry 122 and one other chemistry course with laboratory; 371—Chemistry 261 or equivalent. *Mr. Brockman.*

The first course covers important chemical processes and recent developments in various inorganic chemical industries. The second course deals with the important chemical processes and recent developments in various organic chemical industries.

421. ADVANCED INORGANIC CHEMISTRY. Five lectures or recitations per week. Prerequisites: Chemistry 223 and one other chemistry course with laboratory. *Mr. Brockman.*

The course emphasizes periodicity of the chemical properties of the elements.

426, 427. INTERMEDIATE INORGANIC CHEMISTRY. 3 hours each. Prerequisites: Chemistry 490c or 491c or equivalent. *The Inorganic Staff.*

501. GLASSBLOWING. 1-3 hours. Prerequisites: Four science courses with laboratory. *Mr. Epperson.*

How to make and repair glass apparatus.

515. DEVELOPMENT OF CHEMICAL THEORIES. Limited to candidates in the *Master of Education* or *B.S. in Education*. Five lectures or recitations. Prerequisites: Twenty hours in natural sciences. *Mr. Philbrook, Mr. Waggoner or Mr. Whitehead.*

The development and significance of laws, theories and hypotheses from the Greek period to the present.

522. ADVANCED INORGANIC PREPARATIONS. One lecture and four laboratory periods. Prerequisites: Chemistry 122 and two other chemistry courses with laboratory. *Mr. Brockman.*

Selected syntheses of inorganic compounds.

525. CHEMISTRY FOR TEACHERS. Limited to candidates for *B.S. in Education* or *Master in Education degree*. Four lectures or recitations and one laboratory period. Prerequisites: Ten hours of chemistry and twenty hours of physical sciences. *Mr. Brockman, Mr. Waggoner, or Mr. Whitehead.*

Preparation for teaching general science and high school chemistry.

821. ADVANCED INORGANIC CHEMISTRY. 3 to 21 hours.

821.1. THE NON-METALLIC ELEMENTS. 3 hours. Prerequisites: Four chemistry courses with laboratory. *The Inorganic Staff.*

821.3. STRUCTURAL INORGANIC AND STEREO-CHEMISTRY. 3 hours. Prerequisites: Four chemistry courses with laboratory. *The Inorganic Staff.*

825. SPECIAL TOPICS IN INORGANIC CHEMISTRY. 3 to 21 hours.

825.1. NON-AQUEOUS SOLVENTS. 3 hours. Prerequisites: Two of Chemistry 821.1, 821.3, or 825.2. *Mr. Waggoner.*

825.2. THE LESS-FAMILIAR METALLIC ELEMENTS. 3 hours. Prerequisites: Four chemistry courses with laboratory. *Mr. Waggoner.*

## ANALYTICAL CHEMISTRY

223. QUALITATIVE INORGANIC ANALYSIS. Two lectures or recitations and three laboratory periods. Prerequisite: A grade of 70 or better in Chemistry 121, 122. *The Analytical Staff and Assistants.*

The fundamental theories of qualitative analysis and analyses of common cations and anions by semi-micro methods.

380. QUANTITATIVE INORGANIC ANALYSIS. Two lectures or recitations and three laboratory periods. Prerequisite: Chemistry 223. *The Analytical Staff and Assistants.*

The fundamental theories of quantitative analysis and typical analyses involving volumetric and gravimetric methods.

480. ADVANCED QUANTITATIVE ANALYSIS. One or two lectures or recitations and four or three laboratory periods. Prerequisite: Chemistry 380, and Chemistry 490c or 491c or equivalent. *The Analytical Staff and Assistants.*  
Advanced work in inorganic quantitative analysis.

580. INSTRUMENTAL METHODS OF ANALYSIS. Two lecture and three laboratory periods. Prerequisites: Chemistry 480 or equivalent. *Mr. Jacobs.*

This course covers the use of special instruments for analysis. These include refractometers, electrophotometers, spectrophotometers, polarograph, and electrical instruments.

881. ADVANCED ANALYTICAL CHEMISTRY. 3 to 21 hrs.

881.1. ADVANCED ANALYTICAL CHEMISTRY. 3 hrs. Prerequisite: Chemistry 490c. *The Analytical Staff.*

881.2. ADVANCED ANALYTICAL CHEMISTRY. 3 hrs. Prerequisite: Chemistry 881.1. *The Analytical Staff.*

881.3. ADVANCED ANALYTICAL CHEMISTRY. 3 hrs. Prerequisite: 3 hrs. Prerequisite: Chemistry 881.2. *The Analytical Staff.*

884. CURRENT TOPICS IN ANALYTICAL CHEMISTRY. 3 to 21 hours (3 hours per quarter). Prerequisites: Chemistry 881.3. *The Analytical Staff.*

### AGRICULTURAL AND BIOCHEMISTRY

261. ORGANIC CHEMISTRY (Agriculture). Four lectures or recitations and one laboratory period. Prerequisites: Chemistry 112, or 122, or with consent of Head of Department. Not open to students with credit in organic chemistry *Staff and Assistants.*

A brief terminal introduction to organic chemistry with material of especial interest to students of Agriculture, Home Economics and Forestry.

351. A TERMINAL COURSE IN GENERAL BIOCHEMISTRY. Four lectures and one two-hour laboratory. Prerequisite: Chemistry 261 or equivalent. *Mr. Coggin, Mr. Cormier or Mr. Dure.*

A brief survey of the chemical nature of cellular constituents and their metabolic interrelationships.

451. PHYSIOLOGICAL CHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisites: Chemistry 261 and a course in Botany or Biology or Zoology or Animal Husbandry or Poultry Husbandry. *Mr. Cormier, Mr. McRorie.*

Fundamental principles of physiological chemistry in the animal body, including the chemistry of foods, digestion, metabolism and excretions.

452. PHYSIOLOGICAL CHEMISTRY (Veterinary Physiology 452.)

851. GENERAL BIOCHEMISTRY. Four hours of lecture or recitation and one laboratory period. Prerequisite: Chemistry 341. *Mr. Cormier, Mr. McRorie, Mr. Novelli, Mr. Williams.*

Fundamental chemistry of living systems.

852. PHYSIOLOGICAL CHEMISTRY. Four lectures or recitations and one laboratory period. Prerequisites: Chemistry 451 or 851. *Mr. Cormier, Mr. McRorie, Mr. Novelli, Mr. Williams.*

An advanced study of the metabolism of carbohydrates, fats and proteins.

855. SPECIAL TOPICS IN BIOCHEMISTRY. 3 to 21 hours.

851.1. PHYTOCHEMISTRY. 3 hours. Three lectures. Prerequisites: Chemistry 451, and one course in botany. *Mr. Cormier or Mr. McRorie.*

A study of the compounds and chemical principles encountered in plants.

855.2. ENZYMOLOGY. 3 hours. Prerequisites: Chemistry 851 and 852. *Mr. Cormier.*

855.3. BIOCHEMICAL RESEARCH TECHNIQUES. 3-5 hours. Prerequisite: Chemistry 852. *Mr. Williams.*

856. PROTEIN CHEMISTRY (Food Technology).

### ORGANIC CHEMISTRY

340, 341, 342. ORGANIC CHEMISTRY. Four or three lectures or recitations and one or two laboratory periods each quarter. Prerequisites: A grade of 70 or better in Chemistry 121, 122. *The Organic Staff and Assistants.*

A three-quarter sequence designed to give the beginning student a foundation in the modern concepts of organic chemistry.



430, 431, 432. INTERMEDIATE ORGANIC CHEMISTRY. 3 hours each. Prerequisites: Chemistry 442 and 490c or 491c or equivalent or consent of Head of Department. *The Organic Staff.*

441. ORGANIC QUALITATIVE ANALYSIS. One consultation and four laboratory periods. Prerequisites: Chemistry 342 or consent of Head of Department. *Mr. Philbrook.*

Identification of pure organic compounds and of mixtures.

442. ORGANIC QUALITATIVE ANALYSIS. *Limited to candidates for B.S. in Chemistry.* One consultation and four laboratory periods. Prerequisites: Chemistry 342 and 490b or 491b or equivalent. *Mr. Philbrook.*

540. ORGANIC CHEMISTRY FOR TEACHERS. *Limited to candidates for B.S. in Education or Master in Education.* Four lectures and one laboratory period. Prerequisites: Ten hours in chemistry and twenty hours of physical and/or biological science. *The Organic Staff.*

831. ADVANCED ORGANIC CHEMISTRY. 3 to 21 hours.

831.1. MODERN ORGANIC THEORY. 3 hours. Prerequisite: Chemistry 342 or equivalent. *The Organic Staff.*

831.2. MODERN ORGANIC THEORY. 3 hours. Prerequisite: Chemistry 831.1. *The Organic Staff.*

831.3. MODERN ORGANIC THEORY. 3 hours. Prerequisite: Chemistry 831.2. *The Organic Staff.*

834. CURRENT TOPICS IN ORGANIC CHEMISTRY. 5 to 30 hours (5 hours per quarter). Prerequisite: Chemistry 831.3 or consent of Head of Department. *The Organic Staff.*

840. ADVANCED ORGANIC PREPARATIONS. One consultation and four laboratory periods. Prerequisite: A grade of 80 or better in Chemistry 340, 341 and 342 or equivalent. *The Organic Staff.*

Selected syntheses of pure organic compounds.

842. ORGANIC QUANTITATIVE ANALYSIS. One consultation and four laboratory periods. Prerequisites: Chemistry 441 and 380. *The Organic Staff.*

Macro and micro methods of quantitative analysis of organic compounds.

## PHYSICAL CHEMISTRY

390. ELEMENTS OF PHYSICAL CHEMISTRY. Five lectures or recitations. Prerequisites: Chemistry 223, 340 and Physics 120. *Mr. Heric, or Mr. Johnston.*

A brief introduction to physical chemistry, designed primarily for pre-medical students.

490 a-b-c. PHYSICAL CHEMISTRY. 15 hours. Four lectures or recitations and one laboratory period. Prerequisites: Chemistry 380, 340, Physics 229 and Mathematics 255. *The Physical Staff.*

A three-quarter course in the fundamental principles of physical chemistry and typical laboratory experiments.

491 a-b-c. PHYSICAL CHEMISTRY. 12 hours.

The lecture part only of 490 a-b-c.

891. CHEMICAL THERMODYNAMICS. 3 to 21 hours.

891.1. CHEMICAL THERMODYNAMICS. 3 hours. Prerequisite: Chemistry 490c. *The Physical Staff.*

891.2. CHEMICAL THERMODYNAMICS. 3 hours. Prerequisite: 891.1. *The Physical Staff.*

895. SPECIAL TOPICS IN PHYSICAL CHEMISTRY. 3 to 21 hours.

895.1, 895.2, 895.3. QUANTUM CHEMISTRY AND STATISTICAL THERMODYNAMICS. 3 hours each. Prerequisites: Chemistry 490c for 895.1; Chemistry 891.2 and 895.1 for 895.2; Chemistry 895.2 for 895.3. *The Physical Staff.*

895.4. CHEMICAL KINETICS. 3 hours. Prerequisites: Chemistry 490c. *The Physical Staff.*

## RESEARCH AND THESIS

347, 348, 349. INTRODUCTION TO RESEARCH. (Field to be inserted). 5 hrs. each. One lecture and four library or laboratory periods. Prerequisites: Chemistry 421 or 441 or 451 or 480 or 490c or consent of Head of Department. *The Graduate Staff.*

An introduction to the literature of chemistry, research procedures, and directions which can be found only in original articles.

811. CHEMICAL SEMINAR. 1-18. *The Staff.*

849. INTRODUCTION TO RESEARCH. (Field to be inserted). One lecture and four library or laboratory periods. Prerequisites: Chemistry 421 or 441 or 451 or 480 or 490c or consent of Head of Department. *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 349 or 849. *The Graduate Staff.*

901. PROBLEMS IN CHEMISTRY. 1-15 hours. Prerequisites: 50 hours in Chemistry. *The Graduate Staff.*

930. THESIS IN CHEMISTRY. 5 to 50 hours. *The Graduate Staff.*

## CLASSICS (CLC)

(The Bishop House, North Campus)

Head: Alexander. Staff: Best, Harris, Rutledge, Scudder.

### CLASSICAL CULTURE

All courses in this section are given in English translation.

301. CLASSICAL CULTURE: GREECE. *Mr. Alexander* or *Mr. Best.*

A study of the characteristics of Greek culture, made principally through translations of selections from Greek authors.

302. CLASSICAL CULTURE: ROME. *Mr. Rutledge* or *Mrs. Scudder.*

A study of the characteristics of Latin culture, made principally through translations of selections from Latin authors.

H-305 (301). CLASSICAL CULTURE: GREECE (HONORS). *Mr. Alexander.*

For honors students only. A survey of Greek Literature in which more extensive reading is done than in Classical Culture 301. There will be supplementary readings and required papers. Not open to students with credit in 301.

H-306 (302). CLASSICAL CULTURE: ROME (HONORS). *Mr. Rutledge.*

For honors students only. A survey of Roman Literature in which more extensive reading is done than in Classical Culture 302. There will be supplementary readings and required papers. Not open to students with credit in 302.

310. ENGLISH DERIVATIVES FROM GREEK AND LATIN. *Mrs. Scudder.*

General etymology and vocabulary of the English language. Prefixes, suffixes, and root words, as well as families of words will be studied.

358. ROMAN LITERATURE IN TRANSLATION. *Mr. Rutledge.*

Detailed study of selected Latin authors, with special emphasis on biography as a literary type.

456. HOMER AND THE EPIC TRADITION. *Mr. Alexander.*

A study of Homer in translation emphasizing his influence on later European literature. Analysis of the epic as a literary form; reading of selected epics of other periods.

457. CLASSICAL DRAMA. *Mr. Alexander.*

A study in translation of tragedies and comedies surviving from ancient Greece. Reading of Greek and Roman plays and selected plays of other literature chosen for comparison.

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 classic, 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 (GRK)

Freshmen may elect the three introductory courses in Greek.

201-202. ELEMENTARY GREEK. *Mr. Alexander* or *Mr. Best.*

A double course meeting for two quarters in the elements of the Greek language; study of Greek history, geography, and social customs.

203. READING IN GREEK. Prerequisites: Greek 201 and 202. *Mr. Alexander* or *Mr. Best.*

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.  
H-500. HONORS COURSE.

## LATIN (LAT)

Freshmen may elect the three introductory courses in Latin. Students continuing Latin begun in high school will be placed in the appropriate course on the basis of personal consultations with instructor.

201-202. ELEMENTARY LATIN. *Mr. Rutledge.*

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. Rutledge.*

Selected readings from Cicero's orations; review of forms and syntax.

304. READING IN LATIN. Prerequisite: Latin 203 or equivalent. *Mr. Rutledge.*

Selected readings from Virgil and Ovid.

305. LIVY. Prerequisite: Latin 304 or equivalent. *Mr. Best* or *Mr. Rutledge.*

Selected readings from the Histories of Livy.

306. HORACE. Prerequisite: Latin 304 or equivalent. *Mr. Best* or *Mr. Rutledge.*

Selected readings from the Odes of Horace.

400. ADVANCED READING COURSE. Prerequisite: Ten hours of advanced work in Latin. *Mr. Best.*

Reading in Latin authors; review of grammar; history of Latin Literature.

## H-500. HONORS COURSE.

550. LATIN FOR TEACHERS. A review course designed especially for high school teachers. Prerequisites: At least ten quarter-hours of Latin with a total of twenty quarter-hours of a foreign language and permission of the instructor. *The Staff.* (Offered in Summer School only).

## COMPARATIVE LITERATURE (CML)

(Bishop House, Moore College, and Park Hall, North Campus)

The Comparative Literature Program is a joint undertaking of the several departments of the Division of Language and Literature. It is under the general direction of the Chairman of the Division of Language and Literature, and is administered by a Committee whose Chairman is Dr. Calvin S. Brown.

400. THE PICARESQUE NOVEL. *Mr. Williams.*

A study of the origin of the picaresque novel and its development in Spain, France, England, and other countries. (Offered alternate years. Offered 1965-66.)

411. MEDIAEVAL NARRATIVE. *Mr. Brown.*

A study of the types of mediaeval narrative-epic, romance, saga beast-epic, *fabliau*, and *exemplum*- with reading and analysis of outstanding examples of these types. (Offered alternate years. Offered 1964-65.)

413. SATIRE IN EUROPEAN LITERATURE. *Mr. Brown.*

A comparative study of satire as a literary type. Its history in Western literature will be traced, and outstanding examples of its various types and periods will be studied in detail. (Offered alternate years. Offered 1965-66.)

417. THE TWENTIETH-CENTURY NOVEL. *Mr. Goldgar.*

The crisis in twentieth-century Western civilization as reflected in the fiction of such writers as Joyce Proust, Mann, Gide, Kafka, Camus, and Moravia.

451. MUSIC AND LITERATURE (MUSIC) *Mr. Brown.*

A comparative study of the forms, relationships, and aesthetics of music and literature. Admission by consent of the instructor.

456. HOMER AND THE EPIC TRADITION. *Mr. Alexander.*

A study of the epics of Homer in translation emphasizing their influence on later European literature. Analysis of the epic as a literary form; reading of selected epics of other periods.

457. CLASSICAL DRAMA. *Mr. Alexander.*

A study in translation of the tragedies and comedies surviving from ancient Greece, with particular emphasis on the development and influence of dramatic forms and variations in themes of classic origin. Reading of Greek and Roman plays and selected plays of other literatures chosen for comparison.

**802. THE DEVELOPMENT OF THE HISTORICAL NOVEL. *Mr. Alciatore.***

A comparative study of the origins and development of the historical novel in England, France, and Italy, with special emphasis on the influence of Walter Scott. (Offered alternate years. Offered 1965-66.)

**810. PROBLEMS IN COMPARATIVE LITERATURE. *Mr. Brown.***

A consideration of some problem or group of closely related problems in comparative literature, with special attention to methodology, bibliography, and the processes of research. (Offered alternate years. Offered 1965-66.)

**813. THE FAUST LEGEND IN LITERATURE. *Mr. Brown.***

A study of the history and development of the Faust legend, with analysis of main literary treatments of it. Especial attention will be given to Marlowe, Goethe, and Thomas Mann. (Offered alternate years. Offered 1964-65.)

**830. HISTORY OF LITERARY CRITICISM. *Mr. Parks.***

A study of the theory and principles of literary criticism from Plato and Aristotle through T. S. Eliot.

**840. PROBLEMS IN LITERARY CRITICISM. *Mr. Parks.***

A research course that will involve the working out by individual students of specific problems of literary criticism usually cutting across national boundaries. (Offered alternate years. Offered 1965-66.)

**855. THE DON JUAN LEGEND IN LITERATURE. *Mr. Williams.***

A study of the appearance of the Don Juan legend in Spain and of its development in Spanish, French, English, and other literatures. (Offered alternate years. Offered 1964-65.)

**864. THE RENAISSANCE IN THE ROMANCE COUNTRIES. *Mr. Hassell.***

A study of the development of the Renaissance movement in the Romance countries, particularly in Italy, France, and Spain. (Offered alternate years. Offered 1965-66.)

**DRAMA**

(See Speech and Drama)

**ECONOMICS (ECN)**

Head: Wood. Staff: Adams, Beadles, Biscoe, Danielsen, Drewry, Fuller, Green, Holshouser, Keeling, McDonald, Miller, Scheidell, Segrest, Tailby, and Wright.

**105. PRINCIPLES OF ECONOMICS. *The Staff.***

Description and analysis of the economic organization of modern society with a brief introduction to the theory of value and distribution. This course may be taken without Economics 106.

**106. PROBLEMS OF ECONOMICS. Prerequisite: Economics 105. *The Staff.***

A further study of economic principles started in Economics 105. Economics 195 and 106 are prerequisites to all advanced courses in economics.

**H-115 (105). PRINCIPLES OF ECONOMICS. (HONORS). (Not open to students with credit for Economics 105). *The Staff.***

Students will analyze principles underlying economic organization and functioning. Analysis will include introduction to classical, neo-classical, and modern economic theory with added exposure to distribution and value theory.

**H-116 (106). PROBLEMS OF ECONOMICS. (HONORS). (Not open to students with credit for Economics 106). *The Staff.***

This course is designed to appraise and evaluate the economics of the firm.

**133. ECONOMIC DEVELOPMENT OF THE UNITED STATES. *Mr. Fuller and Staff.***

American economic development from the colonial period to the present; economic factors involved in industrial growth and the resulting economic problems.

**134. ECONOMIC DEVELOPMENT OF EUROPE. *The Staff.***

Development of the economic aspects of civilization in medieval and modern times; evolution of economic institutions; historical background of present economic problems.

**H-143 (133). ECONOMIC DEVELOPMENT OF THE UNITED STATES. (HONORS). (Not open to students with credit in Economics 133). *The Staff.***

American economic development from the colonial period to the present; economic factors involved in industrial growth and the resulting economic problems.

**312. ELEMENTARY ECONOMIC STATISTICS. *Mr. Holshouser and Staff.***

Introduction to the collection, presentation, and analysis of quantitative economic data; analysis of central tendency, dispersion, statistical inference, index numbers, time series, and correlation.

**H-322 (312). ELEMENTARY ECONOMIC STATISTICS. (HONORS). (Not open to students with credit in Economics 312). *Mr. Holshouser.***

This course offers an opportunity for more intensive examination of the theory and application of statistical measures. Inference, including hypothesis testing, is emphasized. Students become familiar with important statistical works and are introduced to such concepts as variance analysis, and multiple and partial correlation.

326. (FINANCE). MONEY AND BANKING. See Finance 326.

H-336 (326) (FINANCE). MONEY AND BANKING. (HONORS). See Finance

386. LABOR ECONOMICS. *The Staff.*

Survey of labor organizations, wages, hours, unemployment, labor legislation, and current developments in labor. Tools of economic analysis are utilized.

H-396 (386). LABOR ECONOMICS. (HONORS). (Not open to student with credit in Economics 386). *Mr. Beadles.*

Survey of labor organization wages, hours, unemployment, labor legislation and current developments in labor.

405. INTERMEDIATE MICRO-ECONOMIC THEORY. Prerequisites: Economics 105 and 106. *The Staff.*

Economic behavior of households and firms, determination of prices and allocation of resources.

406. INTERMEDIATE MACRO-ECONOMIC THEORY. Prerequisites: Economics 105 and 106. *Mr. Beadles.*

National income accounting and theory. Determination of national income, employment, price level, and growth.

410. ECONOMIC GROWTH AND DEVELOPMENT. Prerequisites: Two senior division courses in economics. *Mr. Wright.*

Problems and programs of economic growth; specific attention to selected underdeveloped areas.

421. PUNCHED-CARD STATISTICS. Prerequisites: Business Administration 315 and an introductory course in statistics. *The Staff.*

Use of punch-card machines in the treatment of numerical data; preparation of statistical surveys in a form suitable for machine use in the processing of the data; use of tables in the form of pre-punched cards.

434. (FINANCE). PUBLIC FINANCE. See Finance 434.

435. (FINANCE). STATE AND LOCAL PUBLIC FINANCE. See Finance 435.

436. BUSINESS CYCLES. Prerequisite: Economics 312. *Mr. Green.*

Economic and social significance of business fluctuations; causes; methods and theories of forecasting; measures for controlling cycles.

437. COMPARATIVE ECONOMIC SYSTEMS. *Mr. Wright.*

Analysis and appraisal of the theories underlying economic systems; proposed and existing schemes with respect to the maintenance of full employment; distribution of income, and encouragement of progress.

444. GOVERNMENT AND BUSINESS. *The Staff.*

Economic aspects of business regulation by the government; regulatory developments and methods in the United States; loans and subsidies; fact-finding agencies; government-owned corporations.

445. PRIVATE ENTERPRISE AND PUBLIC POLICY. *The Staff.*

Imperfect and monopolistic competition theory; monopoly and the concentration of economic power; analytical treatment of price discrimination, basing point pricing, price leadership and other practices; public policy, as expressed in the anti-trust laws.

450. (FINANCE). MONETARY POLICY. See Finance 450.

455. CONTEMPORARY ECONOMIC PROBLEMS. *The Staff.*

An application of economic theory to certain problems of contemporary economic life such as monopoly, business cycles, tariffs, inflationary influence, industrial conflict, etc.

480. INTERNATIONAL TRADE AND FINANCE. *Mr. Drewry.*

Economic importance and problems of international trade; exchange rates and monetary standards; tariffs and other trade barriers; debts; the position of international trade in the post-war world.

489. THE LABOR MOVEMENT. Prerequisite: Economics 386. *Mr. Segrest.*  
Historical background of modern industrial relations; economic, social and political forces contributing to the current problems in labor economics.

490. (MANAGEMENT). LABOR LEGISLATION. Prerequisite: Economics 386. *Mr. Beadles.*

An economic analysis of the problems and issues arising out of the legislative and judicial efforts to define the rights, duties and responsibilities of labor organizations and management in the field of industrial relations.

491. (MANAGEMENT). COLLECTIVE BARGAINING. Prerequisite: Economics 386. *Mr. Beadles.*

The collective bargaining process with special reference to economic implications.

496. MANAGERIAL ECONOMICS. *Mr. Drewry.*

Executive decision-making in various types of markets; demand, price, and output analysis utilizing micro- and macro- economic tools; public policy.

545. CONTEMPORARY ECONOMICS FOR TEACHERS I. *The Staff.*

For public school teachers only. Employment theory. Emphasis is placed upon recent development and varying points of view in contemporary economics. May not be counted as part of an undergraduate degree program.

546. CONTEMPORARY ECONOMICS FOR TEACHERS II. *The Staff.*

Continuation of Economics 545. For public school teachers only. Price and output determination. Monopoly. International trade. Economic development. Emphasis is placed on current developments and varying points of view in contemporary economics. May not be counted as part of an undergraduate degree program.

577. PUBLIC UTILITIES. *The Staff.*

Development characteristics, rights and duties of public utilities; problems of regulation and rates; service; securities; holding companies in the electric utilities; activities of the Federal government in the power field.

591. APPLIED ECONOMIC STATISTICS. Prerequisite: Economics 312 or Mathematics 357. *Mr. Holshouser.*

Sample design, applications of sampling theory and significance testing in economics and business, elementary analysis of variance, and multiple regression and correlations.

805. ADVANCED ECONOMIC THEORY I. *Mr. Miller.*

An analysis of selected problems of economic theory.

806. ADVANCED ECONOMIC THEORY II. *Mr. Miller.*

The continuation of Advanced Economic Theory I.

807. THE HISTORY OF ECONOMIC THOUGHT. *Mr. Keeling.*

The evolution of the important principles of economics with emphasis on the history of the theories of value and distribution. Permission of the instructor required.

809. ADVANCED ECONOMIC THEORY III. Prerequisite: Advanced training in economic theory and consent of instructor. *Mr. Wright.*

An application of the concepts of micro- and macro- economic theory to a world of disturbance, change, and growth. Special attention will be given to price theory and the theory of the firm in relation to unemployment and monopoly under dynamic conditions.

836. SEMINAR IN BUSINESS CONDITIONS ANALYSIS. Prerequisite: Economics 436 and consent of instructor. *Mr. Green.*

Study of recent developments and research in economic theory and techniques as they relate to business conditions analysis. Economic growth, short-run disturbances, adjustment processes, and questions of welfare and public policy all are viewed within the framework of a general equilibrium system.

844. SEMINAR IN GOVERNMENT AND BUSINESS. *The Staff.*

Current issues in the field of government relations to business and particular emphasis on problems associated with monopoly and competition.

## 850. (FINANCE). RESEARCH IN MONEY AND BANKING. See Finance 850.

870. MATHEMATICAL ECONOMICS I. *Mr. Scheidell.*

Application of mathematical methods to economic theory and problems including joint supply and demand relationship, general equilibrium, cost curves, and production functions.

871. MATHEMATICAL ECONOMICS II. *Mr. Scheidell.*

Application of mathematical techniques to selected topics in micro- and macro-economics, including measuring and testing hypotheses and the construction of economic models.

886. PROBLEMS IN INDUSTRIAL RELATIONS. *Mr. Wood.*

Under wage policy; union influence on related earnings; unions and the general level of wages and prices.

890. INDEX NUMBERS. *Mr. Holshouser.*

Index number construction and interpretation; a survey of the most important index numbers currently used in economic statistics.

891. RESEARCH IN APPLIED ECONOMICS STATISTICS. *Mr. Holshouser.*

Individual research in the application of statistical methods to economic problems. Permission of the instructor required.

892. TIME SERIES ANALYSIS. *Mr. Holshouser.*

Statistical time series analysis and its application to economic analysis.

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.

894. ECONOMICS SEMINAR. *The Staff.*

A continuation of Economics 893.

## 942. (BUSINESS ADMINISTRATION). QUANTITATIVE METHODS IN BUSINESS.

Same as Business Administration 942.

## 943. (BUSINESS ADMINISTRATION). WAGE THEORY AND DETERMINATION.

Same as Business Administration 943.

## ENGLISH (ENG)

(Robert E. Park Hall, North Campus)

Head: Everett. Staff: \*Appleby, Bailey, Baine, Barnett, Beaumont, Blais, Brown, Bufkin, Davidson, Eidson, Free, Goldgar, Hutcherson, Jeffries, \*Leamon, Lindemann, Longshore, McCartney, McCullough, B. McWhorter, J. McWhorter, Magill, Marshall, Martin, Mizelle, Montgomery, Moore, \*Nicora, Olney, Owen, Parks, Shields, Talmadge, Tate, Thurman, Tison, Wall, \*Waller, Wallis, Ware, Washington, Watkins, Weinman, West.

101, 102. COMPOSITION. 10 hours (5 hours a quarter). *The Staff*. English 101 is prerequisite for English 102 (a minimum grade of C (73) is required in English 101).

First quarter: grammar, punctuation, mechanics, diction, and sentence structure. Second quarter: readings for composition. Themes and parallel reading required throughout the course. Conferences on themes. *An average of C (73) is required in these courses.*

H-105. COMPOSITION AND LITERATURE (HONORS). *Mr. Beaumont, Mr. McWhorter, Mr. Marshall, Mr. Montgomery and Mr. Thurman.*

For honors students, this course replaces English 101 and 102. Reading and writing will be given equal stress. Literary works will be studied as specimens of effective writing, and students will be expected to apply the principles and techniques thus learned in their own writing. Not open to students who have had both English 101 and 102.

121, 122. WESTERN WORLD LITERATURE. 10 hours (5 hours a quarter).

Prerequisite: English 101, 102. *The Staff*.

A survey of Western World literature from Homer to the twentieth century.

H-125, H-126. WESTERN WORLD LITERATURE (HONORS). 10 hours (5 hours a quarter). Prerequisite: English 101 and 102 or English H-105. *Mr. Baine, Mr. Brown, Mr. Goldgar, Mr. Lindemann and Mr. West.*

Available for honors students only. Reading and discussion of masterpieces of Occidental literature from Homer to Thomas Mann. Complete works will be read, and there will be individual papers and reports. H-125 is not open to students who have had English 121, and H-126 is not open to students who have had English 122.

303. ENGLISH LITERATURE TO 1800. *Mr. Baine, Mr. Talmadge and 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.

304. ENGLISH LITERATURE AFTER 1800. *Mr. Wall and Staff.*

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. *Mr. Free and Mr. Wall.* This course is recommended to students interested in teaching or in writing.

343. MODERN DRAMA. *Mr. Olney.*

360. ADVANCED COMPOSITION. *Mr. Talmadge.*

Factual writing. Admission by consent of the instructor.

361. THE SHORT STORY. *Mr. Talmadge.*

A history of the short story as a literary form.

370. CREATIVE WRITING. Prerequisite: English 360. *Mr. Montgomery and Mr. Talmadge.*

Emphasis upon the short story and the personal essay. Admission by consent of the instructor.

375. THE NOVEL. *Mr. Baine.*

A study of the outstanding eighteenth and nineteenth century English and American novels.

380. THE MODERN NOVEL. *Mr. Montgomery.*

A study of the modern novel in England and America.

400. OLD ENGLISH. *Mr. Brown and Mr. Lindeman.*

A study of the language and literature of England before the Norman Conquest, with reading of selected texts.

402. CHAUCER. *Mr. Brown and Mr. Lindemann.*

A study of the *Canterbury Tales*, *Troilus and Criseyde*, and minor poems.

403. MILTON. *Mr. Davidson.*

A study of the work and times of John Milton.

405. THE AGE OF JOHNSON. *Mr. Baine.*

A study of the works of Samuel Johnson and his most important contemporaries.

\*On leave.

407. **THE ENGLISH DRAMA TO 1641.** *Mr. Tison.*  
A study of the English drama (exclusive of Shakespeare) from the beginning to the closing of the theatres.
408. **RESTORATION AND EIGHTEENTH CENTURY ENGLISH DRAMA.** *Mr. Baine.*  
The history of the English drama in the late seventeenth and the eighteenth centuries.
409. **ELIZABETH POETRY.** *Mr. Beaumont and Mr. Tison.*  
A study of the Elizabethan non-dramatic poets from Spenser to Donne.
410. **HISTORY OF THE ENGLISH LANGUAGE.** *Mr. Lindemann.*  
The development of English from its beginning to the present time.
412. **SEVENTEENTH CENTURY PROSE AND POETRY.** *Mr. West.*  
A study of the Metaphysical and Cavalier writers.
414. **EARLY EIGHTEENTH CENTURY PROSE.** *Mr. Beaumont.*  
A study of Defoe, Swift, Addison, and Steele and some of their contemporaries.
415. **EARLY EIGHTEENTH CENTURY POETRY.** *Mr. Beaumont.*  
A study of Alexander Pope and some of his contemporaries.
416. **EARLY ROMANTIC LITERATURE.** *Mr. Olney.*  
A study of Wordsworth, Coleridge, and some eighteenth century preromantic writers.
417. **LATE ROMANTIC LITERATURE.** *Mr. Olney.*  
A study of Byron, Shelley, and Keats.
420. **AMERICAN LITERATURE TO 1865.** *Mr. Free and Mr. Moore.*  
A survey of literary works and the main intellectual currents.
422. **AMERICAN LITERATURE AFTER 1865.** *Mr. Free and Mr. Moore.*
425. **ROMANTICISM IN AMERICAN LITERATURE.** *Mr. Moore.*  
A study of the works of Emerson, Whitman, Hawthorne and Melville.
427. **REALISM IN AMERICAN LITERATURE.** *Mr. Moore.*  
A study of the works of Twain, James, Howell and Crane.
429. **SOUTHERN LITERATURE.** *Mr. Eidson, Mr. Moore, 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. Part I.** *Mr. Tison and Mr. West.*  
*Richard III; Julius Caesar; Anthony and Cleopatra; A Midsummer Night's Dream; The Merchant of Venice; As You Like It; Romeo and Juliet; Hamlet.*
441. **SHAKESPEARE. Part II.** *Mr. Tison and Mr. West.*  
*Henry IV (I); Henry V; Coriolanus; Twelfth Night; The Tempest; Measure for Measure; The Winter's Tale; Othello; King Lear; Macbeth.*
442. **VICTORIAN POETRY.** *Mr. Everett.*  
A study of the major Victorian poets, chiefly Tennyson, Browning, and Arnold.
452. **VICTORIAN PROSE.** *Mr. Everett.*  
A study of the major Victorian Prose writers, chiefly Carlyle, Mill, Arnold, and Ruskin.
801. **BEOWULF.** *Mr. Brown.*  
A study of the text, with consideration of linguistics, the epic tradition, and Anglo-Saxon civilization.
803. **MILTON.** *Mr. West.*  
A study of the major works of John Milton with particular attention to their intellectual background.
806. **SEMINAR IN ENGLISH ROMANTIC LITERATURE.** 5-15 hrs. *Mr. Everett, Mr. Olney and Mr. McWhorter.*  
The life and works of Lord Byron, of Wordsworth, or of Keats.
808. **MIDDLE ENGLISH.** *Mr. Lindemann.*  
Language and literature of England from 1150 to 1400, with reading of selected texts representing the various periods and dialects.
810. **SEMINAR IN HISTORICAL ENGLISH LINGUISTICS.** *Mr. Lindemann.*
820. **SEMINAR IN AMERICAN LITERATURE TO 1865.** *Mr. Eidson.*  
A research course in special problems.
822. **SEMINAR IN AMERICAN LITERATURE AFTER 1865.** *Mr. Parks.*  
A research course in special problems.
823. **AMERICAN HUMOR.** *Mr. Moore.*  
A survey of humorous writing in the United States with emphasis on Southern frontier humor and on Mark Twain.
824. **AMERICAN LOCAL COLOR.** *Mr. Moore.*  
A survey of local color writing in the United States from 1870 to the present, with emphasis on Bret Harte, Cable, Joel Chandler Harris, and Sarah Orne Jewett.
829. **SEMINAR IN SOUTHERN LITERATURE.** *Mr. Parks.*  
A research course in special problems.
830. **LITERATURE CRITICISM.** *Mr. Parks.*  
A study of the theory and principles of literary criticism from Aristotle through T. S. Eliot.
840. **SEMINAR IN ELIZABETHAN DRAMA.** *Mr. West.*  
A research course in special problems, with major emphasis on Shakespeare.
842. **SEMINAR IN VICTORIAN LITERATURE.** *Mr. Everett and Mr. Marshall.*  
A research course in special problems.
850. **BIBLIOGRAPHY AND METHODS OF RESEARCH.** *Mr. Baine.*



## ENTOMOLOGY\* (ENT)

Biological Sciences Building, South Campus.

Head: Lund. Staff: Coleman, Dixon, Ebel, French, Hunter, Jordan, Paul, Tsao, Weathersby, Yates.

Students registered in the Franklin College of Arts and Sciences may, with the permission of the Head of the Department, credit one or more of the following zoology courses toward a major in Entomology: Zoology 353, Zoology 370, Zoology 372, Zoology 390, and Zoology 457.

300. **INTRODUCTORY ENTOMOLOGY.** 2 hours. Two double laboratory periods.

Prerequisites: Two courses in plant or animal biology. *Mr. Lund.*

An introduction to the study of insects—their structure, identification and biology.

370. **INSECT MORPHOLOGY.** 5 hours. Two lectures and three double laboratory periods. Prerequisites: Entomology 300. *Mr. Lund.*

An introduction to insect structure and phylogeny.

374. **ECONOMIC ENTOMOLOGY.** 3 hours. One lecture and two double laboratory periods. Prerequisites: Entomology 300. *Mr. Paul.*

A study of the recognition and control of insect pests of field, orchard, garden and home. Those taking this course in the winter quarter should consult Mr. Paul about making the required insect collection during the preceding warm weather.

376. **MEDICAL ENTOMOLOGY.** 3 hours. One lecture and two double laboratory periods. Prerequisites: Entomology 300. *Mr. Weathersby.*

A study of the biology, identification and control of the insects and related arthropods causing or transmitting diseases of man and lower animals.

382. **FOREST PROTECTION.** Entomology, 3 hours. One lecture and two double laboratory periods. Prerequisites: Entomology 300. *Mr. Hunter, Mr. Lund, and Mr. Tsao.*

A study of biology, recognition and control of insect pests of American forests. Those taking this course in the winter quarter should consult Mr. Tsao about making the required insect collection during the preceding warm weather.

474. **ADVANCED ECONOMIC ENTOMOLOGY.** Three lectures and two double laboratory periods. Prerequisite: One of the following entomology courses: 374, 376, or 382. For graduate credit, one additional senior division course is required. *Mr. Paul.*

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 entomology courses: 374, 376, or 382. *Mr. Paul.*

A study of the physical and chemical behavior of insecticides and accessory materials and of their toxicological effects upon plants and animals.

480. **INTRODUCTORY ACAROLGY.** Three lectures and two double laboratory periods. Prerequisites: One of the following entomology courses: 370, 374, 376, or 382. For graduate credit, one additional senior division course is required. *Mr. Hunter.*

The structure, classification, and biology of mites and the control of those forms known to be of importance to the health and welfare of man.

573. **INSECTS IN FIELD AND STREAM.** Two lectures and three double laboratory periods. Prerequisite: Two elementary courses in biological science and two courses numbered 300 or above in biological science or education. *Mr. Paul.*

A study of insects and related forms found on land and in water; their identification and life habits, and the control of noxious forms, with emphasis on the use of these forms in the teaching of high school biology.

800. **ENTOMOLOGY. SEMINAR.** Credit 1 hour per quarter. Prerequisite: Graduate status in a Biological Science.

Weekly meetings with topics relating to Entomology both fundamental and applied, including literature review and recent advances.

805. **INSECT PARASITES.** Prerequisites: Entomology 376 and one additional senior division course. *Mr. Weathersby.*

An advanced study of the structure, biology, and identification of those insects and related arthropods which cause or transmit disease in man or lower animals.

\*Students may be held responsible for breakage in laboratory courses.

815. **INSECT PHYSIOLOGY.** Three lectures and two double laboratory periods. Prerequisites: Entomology 370, one course in organic chemistry and either Zoology 390 or Botany 380. *Mr. Tsao.*

An introduction to the general physiological processes and functions of the various organ systems of insects.

871. **TAXONOMY OF INSECT LARVAE.** Two lectures and three double laboratory periods. Prerequisites: Entomology 370 and one additional senior division course. *Mr. Lund.* (Offered alternate years. Offered 1964-65.)

A study of the classification, biology, and phylogenetic and economic significance of insect larvae.

873. **ADVANCED GENERAL ENTOMOLOGY.** Three lectures and two double laboratory periods. Prerequisites: Entomology 370 and one additional senior division course. *Mr. Lund.* (Offered alternate years. Offered 1965-66.)

An advanced treatment of general entomology including biological nomenclature, insect evolution and classification, sensory physiology, and other special topics.

900. **PROBLEMS IN ENTOMOLOGY.** *The Staff.*

In this course students work intensively on problems in approved fields of entomology.

930. **THESIS.** 5-50 hours. *The Graduate Faculty.*

## FINE ARTS (FA)

(Fine Arts Building and Visual 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, Mr. Gerschevski, and Staff.*

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.

H-397. **THE FINE ARTS IN THE MIDDLE AGES AND THE AGE OF HUMANISM.** *The Staff.*

The development of the Fine Arts from approximately 900-1600 A.D. will be undertaken in this course through the study of works of art, music, and drama. In addition to the historical aspect, efforts will be made to determine relationships to the religious, cultural, and social patterns of the various periods.

H-399. **THE FINE ARTS IN THE TWENTIETH CENTURY.** *Mr. Ballew, Mr. Gerschevski, Mr. Schwarz.*

An analysis of psychological, historical and environmental and commonalities basic to art, music and drama, by experiencing works of art from the three areas and discussions of these works separately and as parts of a more fundamental pattern.

## FRENCH

(See Modern Foreign Languages)

## GEOGRAPHY\* (GGY)

(Geography, Geology and Mathematics Building, South Campus)

Head: Prunty. Staff: Avery, Barnes, Cruickshank, Heyl, Hoy, Kenyon, McGregor, Melvin, Schretter, Shear, Woodruff.

### HUMAN AND REGIONAL GEOGRAPHY

Note: A major selected primarily from the following courses leads to an A.B. degree.

101. **WORLD HUMAN GEOGRAPHY.** *Mr. Barnes, Mr. Hoy, Mr. Cruickshank, and The Staff.*

A survey of world human geography, emphasizing population characteristics, environmental features, distribution of economic activities and geopolitical problems within the major geographical regions. Consideration of adequacy of resources to support expanding world populations.

341. **PROBLEMS IN POLITICAL GEOGRAPHY.** Prerequisites: Geography 101 or History 111, 112. *Mr. Cruickshank.*

A summary of geographical influences upon the nature and history of states and nations. Primary emphasis upon geopolitical conditioning of international affairs since World War I. Analysis of current strategic positions of U. S. and U.S.S.R.

\*Students will be held responsible for breakage in laboratory courses.

358. **ECONOMIC GEOGRAPHY.** Four lectures and one laboratory. Prerequisite: Geography 101 or Economics 105 or Geography 125. *Mr. Hoy* or *Mr. Prunty*.

Distribution and reasons for economic occurrences of agricultural, forest, and mineral raw materials; production and transportation systems and occupancy patterns related thereto. Selected theories in spatial and area development of resources. Resource potentials for the future in light of expanding populations.

436. **GEOGRAPHY OF THE SOUTH.** Prerequisite: Ten hours in courses from one of the following departments: Geography, History or Economics. *Mr. Prunty*.

Geographical appraisal of the Southeastern States, including physical and human resources, settlement and population, agriculture, the extractive industries, transportation, and present urban settlements. Present human-use regions of the South. Current progress and major problems in Southeastern development; suggests geographical approaches to their solution.

441. **CARIBBEAN AMERICA.** Prerequisite: Ten hours in Geography or an equivalent background in either Spanish or History. *Mr. Hoy*.

A regional analysis of the geography of Caribbean Area with emphasis upon the cultural and economic ties of the American South with the Caribbean area.

442. **SOUTH AMERICA.** Prerequisite: Ten hours in Geography or an equivalent background in either Spanish or History. *Mr. Hoy*.

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. Stress upon prospects for expansion of settlements, developments of resources and growth industries.

444. **EUROPE AND THE MEDITERRANEAN.** Prerequisite: Ten hours in Geography, or an equivalent background in History or Modern Languages. *Mr. Cruickshank*.

A regional analysis of the human geography of Europe, and the Mediterranean Basin, emphasizing physical, ethnographic, and economic factors affecting the resource utilization and political problems of the several nations.

446. **GEOGRAPHY OF THE SOVIET UNION.** Prerequisite: Ten hours in Geography, or an equivalent background in Modern Languages or History. *Mr. Cruickshank*.

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.

448. **GEOGRAPHY OF SOUTHEAST ASIA.** Prerequisite: Ten hours in Geography, or an equivalent background in History. *Staff*.

Regional analysis of cultural and physical geography of Southeast Asia including land utilization, settlement, raw material, population characteristics and distributions as they relate to economic and political problems. Emphasis on Japan, China, India, Pakistan, Philippines, and Indonesia.

459. **NORTH AMERICAN URBAN GEOGRAPHY.** Prerequisite: Two courses from Geography 350, 358, or Economics 133. *Mr. Kenyon*.

Analysis of urban land occupancy and its morphological-functional aspects. Introductory location theory in urban areas. Procedures in geographical analysis of agglomerated settlements.

460. **NORTH AMERICAN INDUSTRIAL GEOGRAPHY.** Prerequisite: Geography 358. *Mr. Heyl* or *Mr. Punty*.

Spatial organization of manufacturing activities. Effects of processing procedures, raw materials sources and types, transportation, and relative areal advantages in locations of industries. Industrial occupancy and functional types. Industrial location theories and their applications.

461. **NORTH AMERICAN AGRICULTURE GEOGRAPHY.** Prerequisite: Ten hours from Geography 350, 358, 459, 460; or ten hours in 300-level courses from Botany or Agronomy approved by instructor. *Mr. Prunty*.

Regional analysis of climate, soils, landform bases of American agriculture. Origins and dispersal of cultivated plants and livestock; American systems of rural land use and settlement in their regional settings. Contemporary land use problems.

466. **FIELD PROBLEMS IN URBAN GEOGRAPHY.** 3 hours. Three laboratory periods. Prerequisite: Geography 350 and 459. *Mr. Kenyon*.

Field procedures in analysis of spatial, morphological, and functional traits of urban areas. Individual field problems to achieve mastery of the foregoing.

501-502. **PRINCIPLES IN REGIONAL GEOGRAPHY FOR TEACHERS.** 5 hours each. Prerequisites: Geography 101 and 104 plus either ten hours in geography courses numbered above 200 or two years of teaching experience. *Mr. Barnes* or *Mr. Kenyon*.

Does not carry graduate credit for the M.A. or M.S. degrees. A course designed to inculcate principles and concepts in regional geography through intensive analysis of regions selected on a world-wide basis. Offered summer quarters.

533. GEOGRAPHY OF THE COMMUNITY. Prerequisite: Ten hours from the following courses: Geography 310 or 358, Sociology 431 or 435. *Mr. Barnes.*  
Analysis of structure and functional patterns of small and medium-sized American towns. Area differences in morphology of such settlements. Field techniques in assessment of community morphology. Intended primarily for professional teachers and school administrators. Offered summer quarter only.

801. SEMINAR IN GEOGRAPHIC THOUGHT AND METHODS. 3 hours. *Mr. Prunty and The Staff.*

Historical development of geographical philosophy and methods; contemporary methodological concepts and problems. Required for all graduate majors.

803. SEMINAR IN NORTH AMERICAN LAND OCCUPANCE. 3 hours. *Mr. Prunty and The Staff.*

Problems in North American rural land occupance and settlement geography.

830-831-832. DIRECTED PROBLEMS IN ECONOMIC AND CULTURAL GEOGRAPHY. 3 hours each. Prerequisites: Geography 459, 460, 461 and Geography 801-802. *Mr. Kenyon, Mr. Melvin, or Mr. Prunty.*

Problems in advanced economic and cultural geography. Topics may vary.

840-841. TOPICS IN REGIONAL GEOGRAPHY. 3 hours each. Prerequisite: Consent of instructor. Members of the Staff. Directed readings and research in regional geography. Topics may vary from year to year.

A. The U. S. South. *Mr. Prunty or Mr. Kenyon.*

B. Anglo-America. *Mr. Woodruff or Mr. Prunty.*

C. Latin America. *Mr. Hoy.*

D. Western Europe. *Mr. Cruickshank.*

E. The Mediterranean Area. *Mr. Cruickshank or Mr. Shear.*

F. Polar Areas. *Mr. Shear.*

860. SEMINAR IN URBAN AND INDUSTRIAL GEOGRAPHY. 3 hours. Prerequisite: Geography 459. *Mr. Heyl or Mr. Kenyon.*

Contemporary literature and problems of a morphological, spatial, or functional nature, related to urbanized areas. Current problems in industrial location theory and research.

944. (BUSINESS ADMINISTRATION). WORLD RESOURCES; PHYSICAL, TECHNOLOGICAL, HUMAN. Prerequisite: Graduate standing and undergraduate core in economics and business administration, or equivalent. *Mr. Hoy or Mr. Prunty.*

The study of functional relationships within the resource complex and the role of human, material and technological resources in economic organizations. Emphasis on developing a conceptual framework of the role of resources in dynamic environments.

## PHYSICAL GEOGRAPHY

A major selected primarily from the following courses may lead to either the A.B. or B.S. degree.

104. EARTH SCIENCE SURVEY. *Mr. McGregor and The Staff.*

A survey of the fundamental concepts and contributions selected from the fields of physical geography (physiography, climatology, water resources, soils and vegetation).

121. INTRODUCTION TO LANDFORMS. Three lecture and two laboratory periods. *Mr. Heyl or Mr. Woodruff.*

Introductory analysis of the geographic characteristics of the major types of land surfaces, stressing areal associations of landforms, water resources and soils types. Interpretation of same via maps and aerial photos.

122. INTRODUCTORY WEATHER AND CLIMATE. Three lecture and two laboratory periods. *Mr. Shear or Mr. Heyl.*

Components of weather, weather processes, and their measurement. Climatic elements and their control factors. Geographic classification of climatic and vegetative types on the earth's surface.

306. SYNOPTIC AND OBSERVATIONAL METEOROLOGY. 3 hours. Three laboratory periods. Prerequisite: Geography 122. *Mr. Shear.*

Study and practice in meteorological observational procedures. Analysis of upper air and surface maps; the prognosis and forecasting problem.

310. CONSERVATION OF NATURAL RESOURCES. Prerequisite: Geography 101 or 121. *Mr. McGregor.*

Resource problems and related conservation techniques in the United States. Particular emphasis placed upon resource conservation problems of the Southeastern States.

**350. CARTOGRAPHY AND GRAPHICS.** Five laboratory periods. *Mr. Barnes.*  
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 procedures.

**391. DIRECTED MAP AND PHOTOGAMMETRIC COMPILATION.** 3 hours. Three laboratory periods. Prerequisite: Geography 350 or 420. *Mr. Barnes.*

Directed problems in compilation processes for map reproduction. Problems in projection, fitting, air photo scale and distortion control, field and statistical compilation, reproduction specifications.

**401. ADVANCED CLIMATOLOGY.** Four lectures and one laboratory period. Prerequisite: Ten hours in Geography including 122. *Mr. Shear.*

Intensive study of controlling factors of climate. Heat-balance, evapotranspiration, water-budget concepts. Koeppen classification system in detail. Regional analysis of climatic types and anomalies.

**402. NORTH AMERICAN PHYSIOGRAPHY.** Two lectures and three laboratory periods. Prerequisites: Geography 121 plus either Geography 122 or Geology 125. *Mr. Woodruff.*

Detailed analysis of North American physiographic provinces, their subdivisions, geomorphic features, geographic relationships. Terrain morphometrics, topographic maps, air photos, field work, semi-independent reports.

**404. (FORESTRY) WATERSHED HYDROLOGY.** 3 hours. Two lectures and one laboratory period. Prerequisite: Physics 127, 128, and Geography 122. *Mr. Shear.*

Measurement and regulations of the aggregate resources of a drainage basin; control of erosion, streamflow and floods. Role of water as unifying factor in physical landscapes. Required field trips.

**420. USE AND INTERPRETATIONS OF AERIAL PHOTOGRAPHS.** Five laboratory periods. Prerequisites: Four or more quarters of forestry or agriculture, or Geography 350 and one other 300 level course, or permission of the instructor. *Mr. Barnes* or *Mr. Avery.*

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. Training in use of standard photo-grammetric instruments, and in planning of photo-reconnaissance of sample areas.

**422. ADVANCED PHOTOGAMMETRY LABORATORY.** Five laboratory periods. Prerequisite: Geography 420 or equivalent. *Mr. Avery.*

Laboratory instruction on individualized photogrammetric problems related to the major interests of the students. Mastery of advanced photogrammetric instruments.

**425. FIELD METHODS IN GEOGRAPHY.** 3 hours. Prerequisites: 15 hours in Geography courses numbered above 200 including Geography 350, plus at least a B average in junior major courses. *Mr. Woodruff.*

Methods in measurements, observation, recording, and synthesis of field data. Field analysis of all features in one small type-area required, including completed maps and written report in which recorded data are correlated and synthesized.

**429. SPECIAL PROBLEMS IN AREA ANALYSIS.** 3 hours. Prerequisite: Fifteen hours in courses numbered above 300 in Geography. Approval of instructor concerned, and head of department, must be obtained for admission to this course *prior* to registration. *Mr. Prunty* and *The Staff.*

**476. VEGETATION IN NORTH AMERICA.** (Botany 476). *Mr. Plummer.*

**802. QUANTITATIVE METHODS IN AREA ANALYSIS.** 3 hours. *Mr. Barnes* and *The Staff.*

Cartographic and other quantitative procedures in analysis of occupancy, settlement, and physical land types. Procedures and contemporary problems. Required for all graduate majors.

**812-813-814. PROBLEMS IN CLIMATE AND WATER RESOURCES.** 3 hours each. Prerequisite. Geography 401 or 404. *Mr. Shear.*

Advanced problems in climatology and water resources. Topics and areas involved may vary.

**816-817-818. PROBLEMS IN GEOMORPHOLOGY.** 3 hours each. Prerequisite: Geography 402. *Mr. Woodruff.*

Advanced problems in geomorphology—physiography. Topics and areas may vary.

**821. ADVANCED PROBLEMS IN CARTOGRAPHY.** Two lecture and three laboratory periods. Prerequisite: Geography 350 or 420, or equivalent background, plus other advanced course work in Geography. *Mr. Barnes.*

Cartographic problems in projections, design, reproduction. Application of cartographic processes to regional analysis. Problems in photogrammetric control in cartographic compilation. Selected current research problems.

## GEOLOGY\* (GLY)

(Geography, Geology and Mathematics Building, South Campus)

Head: Hurst. Staff: Henry, Hoyt, Pilkey, Ramspott, Rich, Salotti, Wood.

125. ELEMENTS OF GEOLOGY (PHYSICAL). Three lectures and two laboratory periods. *Mr. Salotti* or *Mr. Ramspott*.

Fundamentals of physical geology. Nature and origin of minerals and rocks. Agents of erosion, development of land forms, sedimentation, vulcanism, metamorphism, origin of mountains.

126. ELEMENTS OF GEOLOGY (HISTORICAL). A continuation of Geology 125. Three lectures and two laboratory periods. *Mr. Rich* or *Mr. Henry*.

Methods by which earth history is interpreted. Geologic history of North America by areas. Time scale. Evolution of plant and animal kingdoms.

320. DETERMINATIVE MINERALOGY. 3 hours. Three laboratory periods. Prerequisites: Geology 125 and Chemistry 121. *Mr. Hurst* or *Mr. Salotti*.

Systematic identification and classification of minerals, their rock-associations, modes of occurrence. Procedures in mineralogical analysis.

321. INTRODUCTION TO MINERALOGY AND CRYSTALLOGRAPHY. Two lecture and three laboratory periods. Prerequisites: Geology 125, Chemistry 121. *Mr. Salotti* or *Mr. Ramspott*.

Physical and chemical properties of minerals, their rock-associations, modes of occurrence, industrial uses. Properties of crystals, crystal systems and geometrical characteristics.

323. PETROLOGY. Two lecture and three laboratory periods. Prerequisite: Geology 320 or 321. *Mr. Ramspott*.

Characteristics of the common igneous, sedimentary, and metamorphic rocks. Their classification and field identification.

332. STRUCTURAL GEOLOGY. Two lecture and three laboratory periods. Prerequisite: Geology 125 or equivalent Mathematics 210 recommended. *The Staff*.

Geologic structures and their recognition in the field. Framework of the earth's crust; origin of mountains, continents, oceans. Physical properties and behavior of rocks; solution of structural problems.

403. INVERTEBRATE PALEONTOLOGY. Three lectures and two laboratory periods. Prerequisites: Geology 126 and Zoology 225 or approval of instructor. *Mr. Henry* or *Mr. Wood*.

Study of fossil invertebrates emphasizing relationships in anatomical structures of living and extinct types. Classification. Geologic history of all invertebrate phyla.

405. SEDIMENTATION AND STRATIGRAPHY. Two lectures and three laboratory periods. Prerequisites: Geology 125. Geology 321 recommended. *Mr. Rich*.

The origin and distribution of Sedimentary rocks. Environmental conditions involved in the transportation and deposition of sediments. Vertical sequences and lateral correlations in layered rocks. Typical stratigraphic associations.

407. GEOLOGY OF THE SOUTHERN STATES. Prerequisite: Geology 125-126. Three lectures and two laboratory periods. *The Staff*.

Structural and stratigraphic relationships in southern geology analyzed in terms of distribution, lithology, and their economic implication.

408. OPTICAL MINERALOGY. Three lectures and two laboratory periods. Prerequisite: Geology 321 or equivalent. *Mr. Hurst*.

The optical properties of minerals. Determination of minerals with the polarizing microscope. Introduction to universal stage techniques, point count, etch and stain methods.

409. MARINE GEOLOGY. Five lectures. Prerequisite: Geology 405, or Geology 125-126 and 10 hours of biological science. *Mr. Henry*.

Structure, physiography. Marine sediments and processes. Problems in marine geologic research.

410. SEDIMENTARY PETROLOGY. 3 hours. Three laboratory periods weekly. Prerequisites: Geology 405 and 408. *Mr. Rich*.

Megascope and microscopic petrologic examination of sedimentary rocks. Relationships of their properties to environments during deposition; post-depositional history of the rocks.

411. PRINCIPLES OF GEOCHEMISTRY. 3 hours. Three lectures. Prerequisites: Chemistry 122, Physics 128, Geology 323. *Mr. Salotti*.

Composition of the earth. Distribution of elements in minerals and rocks. Principles governing the migration and concentration of elements. Introduction to nuclear geology and geochemical prospecting.

\*Students will be held responsible for breakage in laboratory courses.

414. CRYSTALLOGRAPHY (MORPHOLOGICAL AND X-RAY). Three lectures and two laboratory periods. Prerequisites: Mathematics 254, Physics 128. *Mr. Hurst and Mr. Salotti.*

Symmetry elements, crystal projections, point groups, space groups, crystal systems, crystal notation, optical goniometry. Determination of cell dimensions and space group; X-ray powder methods, single crystal X-ray methods.

425. FIELD METHODS IN GEOLOGY. 3 hours. Prerequisites: 15 hours in Geology courses numbered above 200 plus at least a B average in junior-senior major courses. *The Staff.*

Geological field methods in preparation of geological maps.

426. GEOLOGIC MAPPING OF SAPROLITE. 3 hours. Prerequisites: 15 hours in Geology courses numbered above 200. *Mr. Hurst.*

The weathering processes of saprolitization. The recognition of parent rock by the field examination of saprolite. Geologic mapping in deeply weathered terrains.

430. CLAY MINERALOGY. 4 hours. Two lectures and two laboratory periods. Prerequisites: Geology 405 and Chemistry 223 or Geology 321 and Chemistry 380. *Mr. Hurst.*

Structure and properties of clay minerals. Effects of environmental factors on their origin and uses. Identification of clay minerals by optical and X-ray methods.

500. GEOLOGY FOR TEACHERS. Lecture and demonstration. Five hours each week. Prerequisite: 20 hours physical and/or biological sciences, at least 5 of which must be chemistry. Graduate credit will be limited to candidates for the Master of Education degree. *The Staff.*

Cultural and practical aspects of earth study. Identification of common rocks and minerals. Geologic principles and processes; outline of earth's history.

501. PRINCIPLES OF SCIENCE FOR TEACHERS — EARTH SCIENCE. Three two-hour lecture-demonstration class sessions and two two-hour laboratory sessions each week, and a full-day trip on alternate weeks. This course in earth science is designed specifically for elementary and junior high school teachers of science. *Not open to Geology Majors.*

810. PETROGRAPHY AND PETROLOGY OF IGNEOUS ROCKS. 3 hours. Three laboratory periods. Prerequisites: Geology 323 and 408. *Mr. Ramspott.*

Study of rocks in thin section. Interpretation of textures, structures, and mineral associations of igneous rocks.

811. PETROGRAPHY AND PETROLOGY OF SEDIMENTARY ROCKS. 3 hours. Three laboratory periods. Prerequisites: Geology 405 and 408. *Mr. Rich.*

Study of rocks in thin section. Interpretation of textures, structures, and mineral associations of sedimentary rocks.

812. PETROGRAPHY AND PETROLOGY OF METAMORPHIC ROCKS. 3 hours. Three laboratory periods. Prerequisites: Geology 323 and 408. *Mr. Hurst.*

Study of rocks in thin section. Interpretation of textures, structures, and mineral associations of metamorphic rocks.

815. SPECIAL PROBLEMS IN SEDIMENTOLOGY AND OCEANOGRAPHY. 5-10 hours.\* Prerequisites: Geology 608 and 609. Geology 811 desirable. *Mr. Henry.*

Intensive study under the direction of the staff on approved problems in sedimentology and oceanography.

816, 817, 818. ADVANCED PETROLOGY. 3-5 hours each. Prerequisites: Geology 608 and Geology 614 or 630. *The Staff.*

Phase equilibria in the study of rocks; experimental petrology; petrofabrics.

930. THESIS. 5-50 hours. *The Graduate Faculty.*

## GERMAN

(See Modern Foreign Languages)

## GREEK

(See Classics)

\*No more than 15 hours to count toward any one degree.

## HISTORY (HIS)

(LeConte Hall, North Campus)

Head: Parks. Staff: Boney, Bumgartner, Coleman, Jones, Kennett, McPherson, Montgomery, Murdoch, Oliver, Smith, Tresp, Vinson, Wynes.

All students receiving a degree from the University of Georgia are required to pass an examination on the history of the United States and Georgia (given at the beginning of the freshman year) unless credit is presented in (1) History 100 or (2) History 351-352 or (3) History 459 and one other course in American History.

100. SURVEY OF AMERICAN HISTORY. (Not open to students who have credit for either History 351 or History 352). *The Staff.*

This course is designed to satisfy the state law requiring that all students receiving degrees shall pass an examination on the history of the United States and of Georgia.

111-112. HISTORY OF WESTERN CIVILIZATION. 10 hours (5 hours in each of two quarters). *Mr. Bumgartner, Mr. Coleman, Mr. Jones, Mr. Kennett, Mr. McPherson, Mr. Murdoch, Mr. Tresp.*

H-115, H-116. HISTORY OF WESTERN CIVILIZATION (HONORS). 10 hours (5 hours in each of two quarters). *Mr. Bumgartner, Mr. Jones, Mr. Kennett, Mr. McPherson, Mr. Murdoch, Mr. Smith, Mr. Tresp.*

H-115 is not available to students who have had 111, and H-116 is not available to students who have had 112. Taught in seminar fashion, with extensive outside reading in primary and secondary sources. Emphasis on social, economic, and intellectual history.

341-342. 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). *Mr. McPherson.*

A survey of English history from the earliest times to the present. The division point in the two parts of this course is 1660. Especially recommended to pre-law students and those interested in English literature.

351-352. AMERICAN HISTORY. 10 hours (5 hours in each of two quarters). Either course may be taken for final credit. *Mr. Coleman, Mr. Montgomery, Mr. Vinson and Mr. Waynes.*

An interpretation of the development of the American nation from the age of discovery to the present.

H-353. HISTORY OF THE UNITED STATES, 1500-1865 (HONORS).

H-354. HISTORY OF THE UNITED STATES, 1865 TO THE PRESENT. (HONORS). 10 hours. (5 hours each of two quarters). *Mr. Montgomery or Mr. Vinson.*

H-353 not open to those who have had 351, and H-354 not open to those who have had 352. Taught in seminar fashion, with extensive outside readings in primary and secondary sources. Emphasis on social, economic, and intellectual history.

358. A SURVEY OF AMERICAN DIPLOMACY. *Mr. Oliver.*

A survey of American objectives and policies in foreign affairs from Colonial times to the present.

371. HISTORY OF EASTERN EUROPE AND THE NEAR EAST, 395-1699. *Mr. Smith.*

The medieval Byzantine and Arab empires and civilizations and their impact on world civilization. The rise of the East European nations and their submergence in the multi-national empires of the Early Modern period of history.

372. HISTORY OF EASTERN EUROPE AND THE NEAR EAST SINCE 1699. *Mr. Smith.*

The rise of the Russian Empire from 1699 to 1856, and its decline, leading to the Revolution of 1917. The struggles of the East European peoples for national independence in the 18th and 19th centuries.

381-382. FAR EASTERN CIVILIZATION. 10 hours. (5 hours each of two quarters. Either course may be taken for final credit). *Mr. Oliver.*

A survey of East Asian civilizations from their beginnings to the present. Division point in two courses will be about 1800.

391-392. LATIN AMERICAN CIVILIZATION. 10 hours (5 hours each of two quarters. Either course may be taken for final credit). *Mr. Bumgartner.*

A survey of Latin American history and culture from pre-conquest times to the present. Division point in two courses will be about 1800.

405. CONSTITUTIONAL HISTORY OF THE UNITED STATES. *Mr. Montgomery.*

A study of how actual political and social conditions in American history have produced fundamental constitutional principles and practices.

406. AMERICAN SOCIAL AND INTELLECTUAL HISTORY OF THE COLONIAL AND FORMATIVE PERIODS. *Mr. Montgomery.*

A review of concepts and attitudes in their social framework, beginning with European heritage and continuing through adaptations to frontier environment.



## 407. AMERICAN CULTURAL HISTORY SINCE THE MID-NINETEENTH CENTURY.

*Mr. Montgomery.*

A study of the principal developments in American philosophy, science, literature and art.

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.

425. ANCIENT HISTORY. *Mr. Jones.*

A survey of the ancient peoples and cultures of the Near East from earliest historical times through the Persian Empire.

## 430. EUROPE, 1890-1929; WORLD WAR I AND THE RUSSIAN REVOLUTION.

*Mr. Smith.*

The diplomatic and military aspects of the origins of World War I, the war itself, all aspects of the Russian Revolution, the abortive peace settlement of 1919-1920, and the diplomacy of the 1920's.

## 431. EUROPE SINCE 1929: WORLD WAR II AND THE RISE OF SOVIET RUSSIA.

*Mr. Smith.*

The origins of World War II, the course of the war itself, and the post-1945 Cold War. The Great Depression of 1929-1933 and the conservative, welfare-state, socialist, communist, and fascist ideologies.

440. THE NEW SOUTH. *Mr. Wynes.*

The South since the Reconstruction Period with emphasis upon social, economic, and political developments of the region.

451. THE AMERICAN COLONIES. *Mr. Coleman.*

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 of 1763.

452. THE REVOLUTION AND THE RISE OF THE AMERICAN NATION. *Mr.**Coleman.*

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 administration of George Washington and John Adams.

453. FROM JEFFERSON TO THE CIVIL WAR. *Mr. Boney.*

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. Parks.*

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. Wynes.*

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, 1877 to 1900. *Mr. Wynes.*

Beginning with the presidency of Rutherford B. Hayes, this course will continue through the administration of William McKinley. Politics will be overshadowed by the social and economic picture.

457. THE ANTE-BELLUM SOUTH. *Mr. Boney.*

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.

459. HISTORY OF GEORGIA. *Mr. Coleman.*

A study of Georgia from its first occupation by the Spaniards down to the present. A comprehensive discussion of all aspects of Georgia's development.

460. RUSSIA AND THE SOVIET UNION SINCE 1689. *Mr. Smith.*

Most of the course will deal with Russia between the Petrine Reform and the Bolshevik Revolution. Some consideration given to East European and Middle Eastern countries.

461. FRANCE IN THE NINETEENTH AND TWENTIETH CENTURIES. *Mr.**Kennett.*

A survey of political, social, and economic developments in France and the French colonial empire since the fall of Napoleon I. Domestic events will be stressed rather than foreign or military affairs. As much attention as possible will be given to literary and other cultural developments.

462. GERMANY IN THE NINETEENTH AND TWENTIETH CENTURIES. *Mr.**Tresp.*

A survey of political, social and cultural developments in Germany since 1800. Domestic events will be stressed. Much attention will be given to literary and intellectual development.

463. GERMANY SINCE 1930. *Mr. Tresp.*

A study of contrasts between Hitler Germany and Germany since World War II.

466. THE BRITISH EMPIRE AND COMMONWEALTH SINCE 1496. *Mr. Jones.*

A survey of British empire and commonwealth problems from the fifteenth century to the present.

473. THE TUDOR PERIOD OF ENGLISH HISTORY, 1485-1603. *Mr. McPherson.* England's emergence as a modern state. Constitutional, economic, social and intellectual progress, her part in the Renaissance and Reformation, and her increasing international significance.

474. THE STUART PERIOD OF ENGLISH HISTORY, 1603-1714. *Mr. McPherson.* England during the evolution of parliamentary supremacy; the early Stuarts, Civil War, Interregnum, Restoration, and Glorious Revolution. Constitutional development is stressed and economic, social and intellectual aspects are included.

475. CONSTITUTIONAL HISTORY OF ENGLAND. *Mr. McPherson.*

A survey of the British constitutional developments from earliest times to the present, noting especially the growth of the common law, the court system, and the cabinet form of government. Recommended particularly for pre-law students.

476. THE AGE OF REASON AND THE FRENCH REVOLUTION, 1660-1815. *Mr. Kennett.*

Western Europe in the eighteenth century, centered on France in the Age of Enlightenment, showing how the French Revolution of 1789-1804 was the climax of the gradual decay of one political, social, economic, and intellectual system, and replacement by another.

477. MEDIEVAL EUROPE. *Mr. Tresp.*

The history of Europe from the Fall of Rome to the Renaissance. The topics covered include the barbarian invasions, the growing power of the 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.*

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.

489. LATIN AMERICA IN THE TWENTIETH CENTURY. *Mr. Murdoch.*

A study of twentieth century influences that are producing socio-economic unrest in much of Latin America and also of efforts of the United States and private organizations to combat the spread of these conditions.

490. GOLDEN AGE OF SPAIN AND PORTUGAL, 1300-1700. *Mr. Murdoch.*

A survey of political, social and cultural development of Spain and Portugal from the final crusade against the Moors to the end of the Hapsburg dynasty, including colonial expansion into North Africa.

493. THE CARRIBEAN AREA. *Mr. Bumgartner.*

Conquest and settlement of the islands and Caribbean periphery by the Spanish, the intrusions by the French, Dutch, and English, and the more recent developments of the nineteenth and twentieth centuries.

494. A.B.C. POWERS. *Mr. Murdoch.*

The history of the political, economic, social and cultural development of Argentina, Brazil, and Chile since the struggle for independence with a brief summary of the late colonial period.

496. RECENT AMERICAN HISTORY, 1900-1950. *Mr. Wynes.*

Special emphasis will be placed on domestic politics and cultural developments. American diplomacy will be excluded.

500. THE ANGLO-AMERICAN TRADITION IN WORLD AFFAIRS. *Mr. Jones and The Staff.*

Primarily for secondary school teachers interested in study of world struggle of United States and Soviet Union, but other students, except candidates for M.A. and Ph.D. in History, may enroll. Anglo-American tradition of self-government and its extension to Latin America, Far East, Southwest Pacific, South-Southeast Asia, Africa, and Middle East.

501. THE CURRENT WORLD STRUGGLE. The Rise of Russian Communism and its Impact in Europe. *Mr. Smith and The Staff.*

Communism in Eastern Europe and the Far East since 1945; and the military, diplomatic, economic, technological, and ideological aspects of the Cold War.

800. HISTORICAL METHOD. *Mr. Parks.*

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.

801. RESEARCH TOPICS IN AMERICAN HISTORY. *Members of the Department on the Graduate Faculty.*

Topics vary from year to year.

A. Concepts in American Diplomacy. *Mr. Vinson.*

B. The Progressive Movement. *Mr. Vinson.*

C. The New Deal. *Mr. Wynes.*

D. American Negro Slavery. *Mr. Parks.*

E. Military Campaigns of the Civil War. *Mr. Parks.*

F. The Diplomatic Revolution, 1940-1960. *Mr. Vinson.*

G. American Foreign Policy. *Mr. Vinson.*

H. Southern Reform Movements. *Mr. Wynes.*

I. Representative Social and Intellectual Movements, 1607-1830. *Mr. Montgomery.*

J. Representative Social and Intellectual Movements Since 1830. *Mr. Montgomery.*

**802. AMERICAN HISTORIOGRAPHY. *Mr. Montgomery.***

A study of books and source materials on American history, historical aids, and American historians.

**807. THE AGE OF JACKSON. *Mr. Montgomery.***

A study of the outstanding developments during the presidency of Andrew Jackson.

**830. PROBLEMS IN EUROPEAN DIPLOMACY, 1890-1923. *Mr. Smith.***

Selected problems related to the origins of World War I, the diplomacy of the war and the Paris Peace Conference.

**835. EUROPEAN DIPLOMACY, 1890-1923, AND THE RUSSIAN REVOLUTION. *Mr. Smith.***

Historiography of World War I and the Russian Revolution. Preparation of papers on phases of military or diplomatic history of the war or revolution.

**854. THE CONFEDERATE STATES OF AMERICA. *Mr. Parks.***

Problems of a government attempting to organize itself in the midst of war, with emphasis on the non-military aspects of its developments.

**858. THE UNITED STATES BETWEEN TWO WARS, 1919-1939. *Mr. Vinson.***

Aims, methods, and accomplishments of the United States in foreign affairs in the period between the two World Wars.

**865. STUDIES IN HANOVERIAN BRITAIN, 1714-1815. *Mr. McPherson.***

Consideration of problems concerned with political, constitutional and imperial development, the agrarian and industrial revolutions, and the struggle with Revolutionary and Napoleonic France.

**870. THE AGE OF REFORM IN GREAT BRITAIN, 1815-1870. *Mr. Jones.***

British adjustments to the society created by the Industrial Revolution in which economic, social, and religious topics are taken up.

**875. MODERN BRITISH DIPLOMACY. *Mr. Jones.***

A short study of British foreign relations after 1763 with emphasis on relations with countries other than those in Europe.

**885. STUDIES IN THE RECENT HISTORY OF THE FAR EAST. *Mr. Oliver.***

Consideration of major phases of East Asian history since 1905, including such topics as revolution and nationalism in China, Japan's rise to power, origins of World War II, Communism in East Asia, and nationalism in Southeast Asia.

**894. STUDIES IN LATIN AMERICAN HISTORY SINCE 1825. *Mr. Murdoch.***

History of some regional groupings of Latin American republics, as for instance the Caribbean, northern South American, Chile, and Argentina; and especially in the modern period, political, economic, social, and cultural problems.

**897. PROBLEMS IN DIPLOMATIC HISTORY, 1776-1898. *Mr. Vinson.***

A study and critical evaluation of each of the basic American foreign policies of this period through selected reading, discussion, and individual research.

**898. PROBLEMS IN U. S. DIPLOMATIC HISTORY, 1898-1957. *Mr. Vinson.***

A study and critical evaluation of American foreign policy in the twentieth century through selected readings, discussion, and individual research.

## MATHEMATICS (MAT)

(Geography, Geology and Mathematics Building, South Campus.)

Head: Ball. Staff: Baker, Brahana, Cantrell, Cohen, Collins, Daughtry, Ford, Fort, Granas, Heath, Horne, Huff, Jewett, Rao, Rice, Robinson, Stanley, Vobach.

**99. REMEDIAL COURSE IN ALGEBRA. *No Credit. The Staff.***

A course designed for students who have had insufficient high school preparation to enter 100 or who for other reasons are deficient in their mathematics; devoted to drill on elementary and intermediate algebra; meets five times per week.

**100. COLLEGE ALGEBRA. Prerequisite: At least two units of high school mathematics including one year of algebra. *The Staff.***

Review of some elementary algebra, quadratic equations, binomial theorem, progressions, complex numbers, theory of equations.

**101. TRIGONOMETRY. Prerequisites: At least two units in high school mathematics, including one year of algebra. *The Staff.***

Trigonometry with some study of probability and statistics.

**H-120 (220). MODERN MATHEMATICAL ANALYSIS (HONORS). *The Staff.***

Algebraic concepts such as group, vector, matrix are studied. Analytic geometry is developed using vectors and matrices. Either credit for, or exemption from Mathematics 100 and 101 is required. Not open to students who have had Mathematics 210.

**210. ANALYTIC GEOMETRY. Prerequisite: Mathematics 100 and either Mathematics 101 or consent of instructor.**

The straight line, circle, and conic sections.

**235. FINITE MATHEMATICS. Prerequisite: Mathematics 100. *The Staff.***

An introduction to modern ideas in mathematics. Compound statements, sets and subsets, probability theory, vectors and matrices, applications to the social sciences.

254. CALCULUS. Prerequisite: Mathematics 210. *The Staff*.  
A beginning course in differential calculus.
255. CALCULUS. A continuation of Mathematics 254. *The Staff*.  
Integral calculus and other more advanced topics.
401. DIFFERENTIAL EQUATIONS. Prerequisite: Mathematics 255. *The Staff*.  
Elementary differential equations with applications to geometry and physics.
414. INTRODUCTION TO SET THEORY. Prerequisite: Mathematics 457 or  
consent of instructor. *Mr. Horne* or *Mr. Heath*.  
Basic set theory, cardinal and ordinal numbers, axiom of choice and transfinite induction.
431. THEORY OF NUMBERS. Prerequisite: Mathematics 255. *Mr. Huff*.  
An elementary course in number theory.
440. INTRODUCTION TO HIGHER ALGEBRA. Prerequisite: Mathematics 255.  
*The Staff*.  
Linear algebra and matrix theory.
441. INTRODUCTION TO HIGHER ALGEBRA. Prerequisite: Mathematics 440.  
*The Staff*.  
Theory of equations, polynomials, and determinants. Topics in modern algebra.
442. INTRODUCTION TO HIGHER ALGEBRA. Prerequisite: Mathematics 441.  
*The Staff*.  
Matrices, invariants, theory of elimination. Additional topics in modern algebra.
444. SYMBOLIC LOGIC (PHILOSOPHY).
- 454, 455. AN INTRODUCTION TO THE FOUNDATIONS OF ANALYSIS. 10 hours.  
Prerequisite: Mathematics 414. *The Staff*.  
An introductory course in functions of a real variable; elementary topology of metric spaces; continuous functions; differentiation and Riemann integration; measure theory and the Lebesgue integral.
457. ADVANCED CALCULUS. Prerequisite: Mathematics 255. *The Staff*.  
Vectors, differential calculus of functions of several variables, vector differential calculus.  
*Required for Majors in Mathematics.*
458. ADVANCED CALCULUS. Prerequisite: Mathematics 457. *The Staff*.  
Integral calculus of functions of several variables, vector integral calculus, infinite series.
459. ADVANCED CALCULUS. Prerequisite: Mathematics 458. *The Staff*.  
Fourier series and orthogonal functions, ordinary and partial differential equations.
461. ADVANCED ANALYTIC GEOMETRY. Prerequisite: Mathematics 255. *The Staff*.  
A careful introduction to the analytic geometry of Euclidean space, beginning with elementary propositions on real vectors.
462. PROJECTIVE GEOMETRY. Prerequisite: Mathematics 255. *The Staff*.  
The algebra of homogeneous co-ordinates; duality; cross-ratio; classification of projective transformations; configurations of lines and points; the conic.
464. INTRODUCTION TO METAMATHEMATICS (PHILOSOPHY).
470. THEORY OF PROBABILITY. Prerequisite: Mathematics 255. *The Staff*.  
A rigorous and precise treatment of basic probability theory.
502. BASIC IDEAS OF ARITHMETIC. Prerequisites: Mathematics 100; Education 103, 304, 335, 336 or two years of teaching experience. *Mrs. Baker*, *Miss Robinson*. *Cannot be used as part of the Major*.  
Designed to give elementary teachers a clear understanding of the fundamental ideas of arithmetic. The operations of arithmetic will be studied in several number systems.
510. FUNDAMENTAL IDEAS OF ALGEBRA. Prerequisite for Graduate credit: Mathematics 100-101 and either two mathematics courses numbered over 200 or two years of teaching high school algebra. *Miss Robinson*.  
A course designed to help teachers of high school algebra. It will stress those fundamental ideas, some of which are modern, which determine the structure of elementary algebra.
512. COLLEGE GEOMETRY. Prerequisite for Graduate Credit: Mathematics 100-101 and two years of teaching high school geometry. *Miss Robinson*.  
A course in more advanced elementary geometry especially designed for prospective teachers of secondary school mathematics.
514. ELEMENTARY SET THEORY FOR TEACHERS. Prerequisite: Mathematics 255 or two years experience as a mathematics teacher, *Mr. Heath* and *Mr. Horne*.  
An elementary course in the theory of sets. Contains applications to topology.
516. MODERN ALGEBRA FOR TEACHERS. Prerequisite: Mathematics 510.  
*Mr. Brahana* and *Mr. Jewett*.  
The elementary theory of groups, rings, fields and linear algebra.
- 800, 801, 802. TOPICS IN ANALYSIS. 15 hours. *Mr. Horne* or *Mr. Jewett*.  
Basic general topology; category theorems; Lebesgue integration; Banach spaces.

810, 811, 812. POINT SET THEORY. 15 hours. Prerequisite: Mathematics 454 or consent of the instructor. *Mr. Ball* or *Mr. Fort*.  
An introductory course in point set topology.

814, 815, 816. ANALYTIC FUNCTIONS OF A COMPLEX VARIABLE. *Mr. Cantrell* and *Mr. Jewett*.

821, 822, 823. ALGEBRAIC TOPOLOGY. 15 hours. *Mr. Brahana*.  
Complexes, combinatory homology theory, function spaces, fiber spaces, covering spaces homotopy groups, singular homology theory, exact couples, spectral sequences and applications.

830, 831, 832. TOPICS IN TOPOLOGY. 15 hours. *Mr. Ball*, *Mr. Cantrell*, or *Mr. Fort*.

A continuation of Point Set Theory. Selected topics in topology.

843, 844, 845. MODERN ALGEBRA. 15 hours. Prerequisite: Mathematics 422. *Mr. Horne* or *Mr. Vobach*.

Domains, rings, fields, linear algebra.

850, 851, 852. TOPOLOGICAL ALGEBRAIC STRUCTURES. 15 hours. Prerequisite: Mathematics 810, 811, 812. *Mr. Horne*.

The topology of spaces admitting continuous multiplication. Including one or several of the following: topological groups, Lie groups, topological semigroups, H-spaces, topological lattices and semi-lattices.

863. ALGEBRAIC GEOMETRY. Prerequisite: Mathematics 462. *Mr. Huff* or *Mr. Brahana*.

Groups of transformations; invariants; geometrics, algebraic curves.

864. ALGEBRAIC CURVES. Prerequisite: Mathematics 863. *Mr. Huff* or *Mr. Brahana*.

Theory of curves over the field of complex numbers, singularity of curves, genus.

891. MATHEMATICAL SEMINAR. 1 to 10 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.

930. THESIS IN MATHEMATICS. 5 to 50 hours. *The Graduate Staff*.

## INSTITUTE OF STATISTICS

Director: Cohen. Associate Director: Carmon. Staff: Bamping, Findley, Fortson, Greene, Hodge, Keeling, Morris, Rao.

In order to centralize activities in the field of statistics within the University, the University of Georgia Institute of Statistics was organized in 1959. Its principal objectives are: (a) to develop and conduct programs of instruction in statistics at the graduate and the undergraduate levels in both theoretical and applied statistics; (b) to conduct research in the fields both of theoretical and of experimental statistics; (c) to provide statistical services for the several programs of the University of Georgia as the need for such services shall arise.

A computing Center equipped with an IBM electronic data processing machine, and IBM 1620 and 7094 electronic computers has been established within the institute.

Since activities of the Institute are University-wide, crossing over school and college lines of administration, the Director reports directly to the Dean of Faculties. Members of the Institute Staff and Faculty may hold joint appointments with other schools and colleges of the University.

Many of the courses offered through the Institute of Statistics are listed jointly with various departments and colleges of the University. Consistent with the requirements of the Graduate School as set forth elsewhere in this catalogue, candidates for the Master of Science degree in Statistics and the Master of Arts degree in Mathematical Statistics may plan programs utilizing appropriate courses selected from those listed below.

### INTRODUCTORY COURSES

200. (MATHEMATICS AND PSYCHOLOGY). ELEMENTARY STATISTICS. Prerequisite: Mathematics 100. *The Staff*. Cannot be used as part of the 40 hours of a Mathematics Major.

A basic elementary course in statistics at a level which does not require a knowledge of calculus.

357. (MATHEMATICS). ELEMENTARY MATHEMATICAL STATISTICS. Prerequisite: Mathematics 255. *Mr. Cohen* and *Mr. Rao*.

This is an elementary course in statistics for students who have completed both differential and integral calculus.

### METHODS COURSES

423. (AGRONOMY). STATISTICAL METHODS I. Prerequisite: Mathematics 100, and two senior division courses. *Mr. Carmon* and *Mr. Morris*.

A first course in statistics for advanced undergraduates and beginning graduate students. Knowledge of calculus is not required. Basic concepts of statistical models, sampling, variability in sample data distributions, estimation of parameters, simple tests of significance, *t*-tests, analysis of variance, chi-square tests, and simple regression and correlation are studied.

826. (ANIMAL HUSBANDRY). STATISTICAL METHODS II. Prerequisite: Statistics 423. *Mr. Carmon*.

A continuation of Statistical Methods I to include analysis of covariance, multiple regression, multiple covariance, analysis of variance with multiple classification, non-linear regression, non-homogeneous variance and problems arising from unequal sub-class numbers.

827. (AGRONOMY). STATISTICAL METHODS III. (EXPERIMENTAL DESIGN). Prerequisite: Statistics 826 or consent of instructor. *Mr. Carmon* and *Mr. Morris*.

Fundamental principles of design, randomized blocks, latin squares, factorial design, split-plot and incomplete block designs are studied. Special emphasis will be given to components of error and to comparisons of different designs.

829. ADVANCED EXPERIMENTAL DESIGN. Prerequisite: Statistics 827, and Statistics 452. *Mr. Carmon* and *Mr. Rao*.

Selected topics in the field of experimental designs.

830. MULTIVARIATE ANALYSIS. Prerequisite: Mathematics 440 and Statistics 826 or 452. *Mr. Rao* and *Mr. Carmon*.

Multivariate tests of hypothesis on equality of mean vectors and dispersion matrices, construction of multivariate confidence regions, multivariate analysis of variance and its extensions, discriminatory analysis, between-and-within-set tests of independence, emphasis on numerical procedures and applications.

### SPECIAL TOPICS AND COURSES WHICH EMPHASIZE STATISTICAL APPLICATIONS

418. STATISTICAL METHODS IN EDUCATION. (See Education 418).

458. STATISTICS IN PSYCHOLOGY RESEARCH. 3 hours. (See Psychology 458).

500. (MATHEMATICS). PROGRAMMING FOR ELECTRONIC DIGITAL COMPUTERS. Prerequisite: Two senior division courses in mathematics or statistics, or consent of instructor. *Mr. Fortson* or *Mr. Bamping*.

Basic machine languages, machine operation and programming test procedures, input-output capabilities. This course is intended to prepare students to use the electronic computer of the University of Georgia Computing Center.

501. (MATHEMATICS). COMPUTER PROGRAMMING SEMINAR. 1-10 hours. Prerequisite: Two senior division courses in mathematics or statistics or consent of instructor. *Mr. Fortson* and *Mr. Bamping*.

Special problems in the theory, and utilization of electronic digital computers to include fortran and gotran programming.

556. (MATHEMATICS). FUNDAMENTALS OF PROBABILITY AND STATISTICS. Prerequisite: Two mathematics courses numbered 200 or above or two years experience teaching high school mathematics. Fundamental ideas of probability with particular emphasis on their applications in statistics. *Mr. Cohen* and *Mr. Rao*.

591. APPLIED ECONOMIC STATISTICS. (See Economics 591).

812. ADVANCED STATISTICS IN EDUCATION AND PSYCHOLOGY. (See Education 812).

828. (ANIMAL HUSBANDRY). STATISTICAL GENETICS. Prerequisite: Statistics 826 or equivalent. *Mr. Carmon*.

Statistical analysis of genetic structure of populations and the genetic forces responsible for the changes in these populations.

891. RESEARCH IN APPLIED ECONOMIC STATISTICS. (See Economics 891).

892. TIME SERIES ANALYSIS. (See Economics 892.)

900. STATISTICS SEMINAR. 1-10 hours. Prerequisite: Twenty credit hours of graduate courses in statistics. *Mr. Cohen*, *Mr. Carmon* and *Mr. Rao*.

Study of some phase of current research in statistics.

930. THESIS IN STATISTICS. 5-50 hours. *Mr. Cohen, Mr. Carmon and Mr. Rao.*

5-50 hours, as may be approved by student's Advisory Committee.

### THEORY COURSES

451. (MATHEMATICS). STATISTICAL THEORY I. Prerequisite: Mathematics 255 and an introductory course in statistics. *Mr. Cohen and Mr. Rao.*  
Introduction to mathematical statistics.

452. (MATHEMATICS). STATISTICAL THEORY II. Prerequisite: Statistics 451. *Mr. Cohen and Mr. Rao.*  
Continuation of 451.

470. (MATHEMATICS). THEORY OF PROBABILITY. Prerequisite: Mathematics 255. *Mr. Ball, Mr. Cohen, and Mr. Rao.*  
A precise and rigorous treatment of basic probability theory.

853. (MATHEMATICS). TESTS OF HYPOTHESES AND THEORY OF ESTIMATION. Prerequisite Statistics 452. *Mr. Cohen and Mr. Rao.*  
Selected topics in tests of hypotheses and theory of estimation at an advanced level.

854. STATISTICAL THEORY III. Prerequisite: Statistics 452. *Mr. Cohen and Mr. Rao.*  
Analytical theory of least squares, generalized linear hypotheses, matrix notation, matrix inversion, partial and multiple regression.

855. THEORY OF NONPARAMETRIC STATISTICS. Prerequisite: Statistics 452. *Mr. Cohen and Mr. Rao.*

Tests of hypotheses which may be made without specification of the underlying distribution to include rank tests, theory of runs, Wilcoxon-Mann-Whitney tests, Kolmogorov-Smirnov tests, and other topics.

856. ADVANCED MATHEMATICS STATISTICS. Prerequisite: Statistics 452. *Mr. Cohen and Mr. Rao.*

Analysis of variance and covariance, multiple covariance, and variance components under Eisenhart Models, I, II, and III.

### SUMMARY OF JOINTLY LISTED COURSES IN STATISTICS

STATISTICS LISTINGS	TITLE	ALTERNATE LISTINGS	
Stat. 200	ELEMENTARY STATISTICS	Math.	200
		Psych.	200
Stat. 357	ELEMENTARY MATHEMATICAL STATISTICS	Math.	357
Stat. 418	STATISTICAL METHODS IN EDUCATION	Educ.	418
Stat. 423	STATISTICAL METHODS I	Agron.	423
Stat. 451	STATISTICAL THEORY I	Math.	451
Stat. 452	STATISTICAL THEORY II	Math.	452
Stat. 458	STATISTICS IN PSYCHOLOGICAL RESEARCH	Psych.	458
Stat. 470	THEORY OF PROBABILITY	Math.	470
Stat. 500	PROGRAMMING FOR ELECTRONIC DIGITAL COMPUTERS	Math.	500
Stat. 501	COMPUTER PROGRAMMING SEMINAR	Math.	501
Stat. 556	FUNDAMENTALS OF PROBABILITY AND STATISTICS	Math.	556
Stat. 591	APPLIED ECONOMIC STATISTICS	Econ.	591
Stat. 812	ADVANCED STATISTICS IN EDUCATION AND PSYCHOLOGY	Educ.	812
Stat. 826	STATISTICAL METHODS II	An. Husb.	826
Stat. 827	STATISTICAL METHODS III	Agron.	827
Stat. 828	STATISTICAL GENETICS	An. Husb.	828
Stat. 853	TESTS OF HYPOTHESES AND THEORY OF ESTIMATION	Math.	853
Stat. 891	RESEARCH IN APPLIED ECONOMIC STATISTICS	Econ.	891
Stat. 892	TIME SERIES ANALYSIS	Econ.	892

## MODERN FOREIGN LANGUAGES (MFL)

Head: Hassell. Staff: Alciatore, Barrick, Cartledge, Chappel, Cobb, Davis, deGorog, Downs, Hernandez, Jordan, Lott, McNeal, Peterson, Rogers, Suarez, Vinson, Williams.

A student continuing a language taken in high school will be placed in the appropriate course on the basis of placement tests and other pertinent information.

No student may receive credit for any course which is a prerequisite to a course for which he has already received college credit. Exception may be made only by the head of the department.

A student who has satisfied the language requirement for his degree in one foreign language may count the courses taken during his junior and senior years in any other foreign language, regardless of course numbers, toward his senior division requirements.

### FRENCH (FR)

101-102. ELEMENTARY FRENCH. 10 hours. *The Staff*.

(Students in this course may be required to spend a maximum of one hour a week outside of class in the language laboratory.)

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.

103. INTERMEDIATE FRENCH. Prerequisite: French 102 or two entrance units in French. *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. *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 202), or to enter courses in conversation and composition (106).

106. INTERMEDIATE FRENCH CONVERSATION AND COMPOSITION. Prerequisite: French 104. *Mr. deGorog*.

The emphasis is divided between conversation (three days a week) and composition (two days a week). The two phases of the courses 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.

H-114 (214). INTERMEDIATE FRENCH (HONORS). Prerequisite: French 101 and 102 or two entrance units in French. *Mr. Downs*.

Honors students who do satisfactory work in this course may substitute it for French 103 and 104. It is not available for students who have had either French 103 or 104 or both. Grammatical construction is reviewed through reading, and there is intensive classroom work and extensive outside reading. French will be used as the language of the classroom.

120. TECHNIQUES IN TRANSLATION. Prerequisite: French 103 or consent of instructor. *The Staff*.

Review of grammar, idioms and vocabulary; practice in translating moderately difficult technical and non-technical French texts into correct English.

*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, Mr. Hassell 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. Prerequisite: French 104. *Mr. Alciatore, Mr. Downs, Mr. Hassell or Mr. Jordan*.

A study of the main literary movements and major works of representative French writers of the eighteenth and nineteenth centuries.

*French 201 and 202 are prerequisite to the following French courses except as indicated. French 202 may be taken either before or after French 201.*



**430. THE ROMANTIC MOVEMENT IN FRANCE. *Mr. Downs.***

The origins of the movement in France with the principal emphasis upon Rousseau, Chateaubriand, and Madame de Stael. Foreign influences. The formation of the *cenacles*. 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.***

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.***

Baudelaire. The Parnassians: Leconte de Lisle and Heredia. The Symbolists: Verlaine, Mallarmé, etc. The Mid-Nineteenth Century Social Drama of Dumas fils and Augier, Henry Becque, Antoine and the origins of the Little Theatre 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. The course is designed to follow 430 and to correlate with 431.

**433. FRENCH DRAMA OF THE TWENTIETH CENTURY. *The Staff.***

French drama since the first World War, with its intellectual, cultural and social backgrounds. The new *animateurs de theatre*, new concepts of tragedy, avant-garde theatres. Special emphasis will be placed on the plays of Claudel, Romains, Lenormand, Bourget, Giraudoux, Anouilh, Cocteau, Montherlant, Sartre and Camus.

**434. THE FRENCH NOVEL OF THE TWENTIETH CENTURY. *The Staff.***

The French novel since 1920 with its intellectual, cultural and social backgrounds. Special emphasis will be placed on the works of Gide, Proust, Malraux, Mauriac, Sartre, Camus, Giono and Montherlant. The avant-garde novels and regional novels of the period will also be discussed.

**459. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY—First half.*****Mr. Jordan.***

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.***

This course will concentrate almost exclusively on Racine and Molière. A study of dramatic techniques and 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.***

The growth of French rationalism. The growth of sensibility. *Belles-Lettres*, Bayle, Fontenelle, Montesquieu, Voltaire, Rousseau, Diderot, d'Holbach, Condillias, Helvetius; Marivaux, Lesage, Beaumarchais, André Chenier, and others. Lectures, collateral reading, analysis of texts, term paper.

**556. ADVANCED FRENCH SYNTAX AND COMPOSITION. No prerequisite beyond French 104. *Mr. Alciatore.***

Comprehensive review; suggested for teachers of French.

**557. FRENCH PHONETICS. Prerequisites: French 201-212 or French 106.*****Mr. Downs.***

A careful analysis of each of the sounds in the French language followed by intensive drill in the accurate pronunciation of these sounds in connected discourse. Practice in phonetic transcription; use of records and films for drill in intonation and conversation.

**581. (EDUCATION) PROBLEMS OF TEACHING ROMANCE LANGUAGES. Prerequisite: French or Spanish 201-202 or 15 hours of Education in addition to French or Spanish 104. *The Staff.***

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.

**805, 806. FRENCH LITERATURE OF THE SIXTEENTH CENTURY. 5 hours each.*****Mr. Hassell.***

A historical survey of French Literature from the accession of Francis I to the death of Henry IV. Lectures, collateral readings, reports.

**809, 810, 811. SEMINAR ON ROMANTICISM. 5 hours each. *Mr. Downs.***

Deals with one major writer of the Romantic Period.

812, 813, 814. SEMINAR ON THE NINETEENTH CENTURY NOVEL. 5 hours each. *Mr. Alciatore*.

An intensive study of one novelist.

820, 821, 822. SEMINAR ON 20TH CENTURY LITERATURE. 5 hours each. *Mr. Alciatore and The Staff*.

An intensive study of one major 20th Century writer.

850, 851. READINGS AND RESEARCH IN FRENCH LITERATURE. 5 hours each. Prerequisite: 10 credit hours in French literature courses 400 and above. *Mr. Alciatore, Mr. Downs, Mr. Hassell, and Mr. Jordan*.

Requires extensive and intensive readings in French literature and in pertinent critical writings. The field to be covered will be determined by the student's previous background but will in all cases presume that the student is capable of reading French rapidly with comprehension.

870, 871. INTRODUCTION TO OLD FRENCH. *Mr. deGorog*.

A history of the French language from the appearance of the first texts in the ninth century to the Renaissance, with linguistic analysis of representative texts. Phonology and morphology.

872. INTRODUCTION TO OLD FRENCH LITERATURE. Prerequisite: French 870, 871. *Mr. Hassell*.

A survey of Old French Literature; a study of its history and of important individual works, with emphasis upon their literary values.

## GERMAN (GER)

101-102. ELEMENTARY GERMAN. 10 hours. *The Staff*.

(Students in this course may be required to spend a minimum of one hour a week outside of the class in the language laboratory.)

Fundamentals of grammar, pronunciation, conversation, composition, reading, and translation.

103. INTERMEDIATE GERMAN. Prerequisite: German 102 or two entrance units in German. *The Staff*.

Grammar review, reading and translation of intermediate texts, composition, and conversation.

104. INTERMEDIATE GERMAN. Prerequisite: German 103. *The Staff*.

Extensive readings in modern German prose, composition and conversation.

120. TECHNIQUES OF TRANSLATION. Prerequisite: German 103 or consent of instructor. *The Staff*.

Review of grammar, idioms, and vocabulary; practice in translating moderately difficult technical and non-technical German texts into correct English.

*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 205. *The Staff*.

A study of representative works of German literature in the nineteenth century.

\*202. INTRODUCTION TO GERMAN LITERATURE. Prerequisite: German 104 or German 205. *The Staff*.

A study of the main literary movements and major works of representative German writers of the twentieth century.

210. ADVANCED CONVERSATION AND COMPOSITION. Prerequisite: German 104.

Three recitations and two double periods for oral practice each week.

430. THE GERMAN DRAMA OF THE NINETEENTH CENTURY. Prerequisite: German 201 and 202 or by special permission of the instructor. *The Staff*.

A study of the development of German drama in the nineteenth century; reading of selected plays from the period, including Kleist, Grillparzer, Hebbel, Buchner, Grabbe.

431. THE GERMAN NOVELLE OF THE NINETEENTH CENTURY. Prerequisite: German 201 and 202 or by special permission of the instructor. *The Staff*.

The development of the German *Novelle* from Romanticism to Realism.

432. INTRODUCTION TO GOETHE. Prerequisite: German 201 or 202. *The Staff*.

Study of Goethe's life, with lectures, reports and readings from his poems, novels, and plays other than *Faust*.

433. GOETHE'S FAUST. Prerequisite: German 201 and 202 or by special permission of the instructor. *The Staff*.

Reading and interpretation of Part I of *Faust*.

439. THE GERMAN LYRIC. Prerequisite: German 201 and 202 or special permission of instructor. *Mr. Barrick*.

A study of German lyrics and ballads from the time of the Minnesingers to the present.

\*May be taken in lieu of 104 to satisfy degree requirements when 104 is not offered.

## ITALIAN (ITAL)

101-102. ELEMENTARY ITALIAN. 10 hours. *Mr. Downs.*

(Students in this course may be required to spend a minimum of one hour a week outside of class in the language laboratory.)

Grammar and composition, conversation, reading and dictation.

103. INTERMEDIATE ITALIAN. Prerequisite: Italian 102. *Mr. Downs*

Intermediate grammar, reading, conversation, dictation, and composition.

104. ITALIAN GRAMMAR, COMPOSITION, AND CONVERSATION. Prerequisite: Italian 103. *Mr. Downs.*

An intensive reading of Dante's "Inferno" collateral reading, advanced conversation.

\*201. INTRODUCTION TO ITALIAN LITERATURE. Prerequisite: Italian 104. *Mr. Downs.*

A study of the main literary movements and major works of representative Italian writers from the beginning through the 17th Century.

\*202. INTRODUCTION TO THE STUDY OF ITALIAN LITERATURE. Prerequisite:

Italian 104. *Mr. Downs.*

A study of the main literary movements and major works of representative Italian writers of the 18th and 19th Centuries.

## LINGUISTICS

860. AN INTRODUCTION TO GENERAL LINGUISTICS. Prerequisites: Admission to the Graduate School, at least 20 hours of one foreign language, and permission of the instructor. *Mr. deGorog.*

An introduction to the study of language and the various techniques developed in the 20th Century for the analysis of language. Provides students with a means of approaching languages of different structures, whether Indo-European or non Indo-European.

## RUSSIAN (RUS)

101-102. ELEMENTARY RUSSIAN. 10 hours. *Mr. Cobb.*

Grammar and composition, conversation, reading and dictation.

103. INTERMEDIATE RUSSIAN. Prerequisite: Russian 102. *Mr. Cobb.*

Intermediate grammar, reading, conversation, dictation, and composition.

104. RUSSIAN GRAMMAR, COMPOSITION, AND CONVERSATION. Prerequisite: Russian 103. *Mr. Cobb.*

Advanced grammar, reading, oral and written composition, conversation, dictation.

401. INTRODUCTION TO MODERN RUSSIAN LITERATURE. (in translation). Prerequisite: 10 credits from among the following English 121-122, French 201-202, German 201-202, Spanish 201-202, Italian 201-202, or 25 hours of foreign language including not less than 15 hours of Russian. *Mr. Cobb.*

A survey of the golden age of Russian literature (first half of the 19th century) with emphasis on poetry and the drama. Reading, in translation, of representative works by Pushkin, Lermontov, Gogol, Griboedov, and Goncharov, and of selections from the works of lesser writers. Students who have studied the Russian language are required to read certain selections in the original.

402. INTRODUCTION TO MODERN RUSSIAN LITERATURE. (in translation). Prerequisites: 10 credits from among the following: English 121-122, French 201-202, German 201-202, Spanish 201-202, Italian 201-202 or 25 hours of foreign language including not less than 15 hours of Russian. *Mr. Cobb.*

A survey of Russian prose literature between 1850-1917. Reading, in translation of representative works by Dostoevski, Turgenev, Chekhov, Tolstoi, and Gorki, and of selections from the works of lesser writers. Students who have studied the Russian Language are required to read certain selections in the original.

## SPANISH (SP)

101-102. ELEMENTARY SPANISH. 10 hours. *The Staff.*

(Students in this course may be required to spend a minimum of one hour a week outside of class in the language laboratory.)

Pronunciation, fundamentals of grammar, reading and conversation.

103. INTERMEDIATE SPANISH. Prerequisite: Spanish 102 or two entrance units in Spanish. *The Staff.*

A rapid review of Spanish grammar, irregular verbs, and idioms. Intensive and extensive reading.

104. INTERMEDIATE SPANISH. Prerequisite: Spanish 103. *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).

\*May be taken in lieu of 104 to satisfy degree requirements when 104 is not offered.

106. SPANISH CONVERSATION AND COMPOSITION. Prerequisite: Spanish

104. *Mr. Williams.*

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.

H-114 (214). INTERMEDIATE SPANISH (HONORS). Prerequisite: Spanish 101 and 102 or two entrance units in Spanish. *Mr. Lott.*

Honors students who do satisfactory work in this course may substitute it for Spanish 103 and 104. It is not available for students who have had either Spanish 103 or 104 or both. Grammatical construction is reviewed through reading and there is intensive classroom work and extensive outside reading. Spanish will be used as the language of the classroom.

*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. Lott, Mr. Hernandez or Mr. Williams.*

A study of representative works of Spanish literature from its beginning through the Golden Age.

202. INTRODUCTION TO SPANISH LITERATURE. Prerequisite: Spanish 104.

*Mr. Lott, Mr. Hernandez 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. Williams and Mr. Lott.*

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. Spanish 202 may be taken either before or after Spanish 201.*

419. THE SPANISH NOVEL OF THE TWENTIETH CENTURY. *Mr. Lott.*

The development of the Spanish novel from the Generation to 1898 to Cela and recent tremendista novels. Special attention will be given to the novels of Baroja, Unamuno, Azorin, Valle-Inclán, R. Pérez de Ayala, G. Miró, Concha Espina, and Cela, with a discussion of experimentation and the problem of form in the modern novel.

420. THE SPANISH NOVEL OF THE NINETEENTH CENTURY. *Mr. Lott and Mr. Williams.*

A study of the Spanish novel from the beginnings of *costumbrismo*, regionalism, and realism to the end of the nineteenth century, with particular emphasis on the novels of P. A. de Alarcón, Pereda, Valera, Pérez Galdós, Pardo Bazán, Palacio Valdés, and the Valencian novels of Blasco Ibáñez.

421. THE DRAMA OF THE GOLDEN AGE. *Mr. Williams.*

A study of the principal dramatists and their works with particular emphasis on Lope de Vega, Tirso de Molina, Ruiz de Alarcón, and Calderón de la Barca.

422. SPANISH PROSE OF THE GOLDEN AGE. *Mr. Williams.*

A study of the novel and short story of this period with emphasis on Cervantes.

423. THE DRAMA OF THE NINETEENTH CENTURY. *Mr. Lott.*

The development of Spanish drama from Moratin's neoclassic comedies to the realistic plays of Galdós and the early Benavente. Special emphasis will be placed on the romantic drama (Rivas, Zorrilla, García, Gutiérrez, and others), and on the subsequent search for modern realism and the comedy of manners (Bretón, Ventura de la Vega, Tamayo y Baus, López de Ayala, and Echegaray).

424. SPANISH PROSE BEFORE THE GOLDEN AGE. *The Staff.*

A study of the exemplar collections, *La Celestina*, the chivalresque, sentimental and Moorish novel.

425. THE SPANISH DRAMA OF THE TWENTIETH CENTURY. *Mr. Lott.*

The development of Spanish drama from Benavente to the present, with special emphasis on Benavente, Marquina, Martínez Sierra, the Quinteros, García Lorca, Casona, and Buero Vallejo. Technical innovation in the drama of Valle-Inclán, Azorin, García Lorca, and other vanguard plays will be discussed in the light of contemporary trends in the theater.

427. SPANISH POETRY TO 1700. *Mr. Williams.*

A study of the development of Spanish poetry, its sources and forms, with particular attention to the epic, the ballad, and the poetry of Juan Ruiz, the Marqués de Santillana, Jorge Manrique, Garcilaso de la Vega, Luis de León, Góngora, Lope de Vega, Calderón de la Barca, and others.

430. SPANISH-AMERICAN POETRY. *Mr. Hernandez.*

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. Hernandez.*

A study of the essay and novel as developed in the Spanish-American nations. Readings from representative writers of the several countries.

526. ADVANCED SPANISH SYNTAX AND COMPOSITION. *Mr. Williams.*

A study of grammatical forms and usages with particular reference to the needs of those preparing to teach.

528. SPANISH PHONETICS. *The Staff.*

A study of the organs of speech, the difference in production of Spanish and English speech sounds, and the various speech phenomena. Practice in phonetic transcription, pronunciation, and intonation.

581. (EDUCATION). PROBLEMS OF TEACHING ROMANCE LANGUAGES. Prerequisite: French or Spanish 201-202 or 15 hours of Education in addition to French or Spanish 104. *The Staff.*

History of method, psychology of language learning, values, objectives, pedagogy of 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.

808. CERVANTES. *Mr. Williams.*

A study of Cervantes' work with emphasis on Don Quixote and the Exemplary Novels.

809. THE MODERNISTA MOVEMENT IN SPANISH-AMERICA. *The Staff.*

A study of Ruben Dairo, his contemporaries and followers.

811, 812, 813. SEMINAR IN THE NINETEENTH CENTURY SPANISH NOVEL. 5 hours each. Prerequisite: A.B. degree with at least 10 quarter hours of upper division Spanish courses. *Mr. Lott.*

An intensive study of one nineteenth-century Spanish novelist, such as Jose Maria de Pereda, Juan Valera, Emilia Pardo Bazan, Armando Palacio Valdes, or Benito Perez Galdós.

821, 822, 823. SEMINAR IN SPANISH DRAMA OF THE GOLDEN AGE. 5 hours each. Prerequisite: A.B. degree with at least 10 quarter hours of upper division Spanish courses. *Mr. Williams.*

An intensive study of one of the four outstanding seventeenth century dramatists; Lope de Vega, Tirso de Molina, Ruiz de Alarcon, or Calderon de la Barca.

850, 851. READINGS AND RESEARCH IN SPANISH LITERATURE. 5 hours each. Prerequisite: 10 credit hours in Spanish literature courses 400 and above. *Mr. Lott and Mr. Williams.*

Requires extensive and intensive readings in Spanish literature and in pertinent critical writings. The field to be covered will be determined by the student's previous background but will in all cases presume that the student is capable of reading Spanish rapidly with comprehension.

870, 871. INTRODUCTION TO OLD SPANISH. *Mr. deGorog.*

A history of the Spanish language from the appearance of the first Spanish documents until the Renaissance, with linguistic analysis of representative texts. Phonology and morphology.

872. INTRODUCTION TO OLD SPANISH LITERATURE. Prerequisite: Spanish 870, 871. *Mr. Williams.*

A survey of Old Spanish Literature; a study of its history and of important individual works, with emphasis upon their literary values.

## MUSIC (MUS)

Head: Gershefski. Staff: Anderson, Danecz, Dooley, Douglas, Dunaway, Felberg, Karlas, Kimble, Leonard, Mitchell, Reilly, Richter, Ross, Sweetkind, Warner.

## THEORETICAL COURSES

110. FUNDAMENTALS OF MUSIC. 3 hours. (Meets five times a week). *The Staff.*

A student expecting to enroll in this course must take an entrance examination.

111. THEORY: INTRODUCTION TO HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. (Meets five times a week.) Prerequisite: Music 110 or examination. *The Staff.*

Includes part-writing of all triads, sight-singing, dictation, and keyboard harmony.

112. THEORY: ELEMENTARY HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. (Meets five times a week.) Prerequisite: Music 111. *The Staff.*

Part-writing of triads in inversions, dominant seventh chord, sight-singing, dictation, and keyboard harmony.

134. THEORY: INTERMEDIATE HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. (Meets five times a week.) Prerequisite: Music 112. *The Staff.*

Secondary seventh chords and inversions, sight-singing, dictation, and keyboard harmony.

135. THEORY: INTERMEDIATE HARMONY, SIGHT-SINGING, AND DICTATION. 3 hours. (Meets five times a week.) Prerequisite: Music 134. *The Staff.*

Altered chords, ninth chords, augmented sixth chords, sight-singing, dictation, and keyboard harmony.

136. THEORY: ADVANCED HARMONY. 3 hours. (Meets five times a week.) Prerequisite: Music 135. *The Staff.*

Modulation, chromatic harmony, modal harmony, survey of modern techniques.

333. **ADVANCED THEORY AND EXERCISES IN COMPOSITION.** Prerequisite: Music 136. *Mr. Douglas* or *Mr. Gershefski*.

An introduction to contemporary musical techniques for the performer and the composer.

374. **ORCHESTRATION.** 3 hours. Prerequisite or corequisite: Music 470. *Mr. Mitchell*.

Principles and practices of instrumentation for chamber music, ensembles, and orchestra,

375. **ORCHESTRATION.** 3 hours. Prerequisite: Music 374. *Mr. Mitchell*.

Principles and practices of instrumentation for orchestra and concert band.

470. **FORM AND ANALYSIS.** Prerequisite: Music 136. *Mr. Richter*.

Harmonic and polyphonic forms analyzed. Special stress given sonata form and Bach's "Well-Tempered Clavier." Students encouraged to write originally in forms thus analyzed.

471. **SIXTEENTH-CENTURY COUNTERPOINT.** Prerequisite: Music 136. *Mr. Richter*.

The contrapuntal style and techniques of the sixteenth century, acquaintance with species counterpoint.

475. **EIGHTEENTH-CENTURY COUNTERPOINT.** Prerequisite: Music 470. *Mr. Richter*.

Late Baroque contrapuntal techniques and styles.

476. **COMPOSITION.** 2 hours. Prerequisite: Music 333, 470, 471 and consent of instructor. *Mr. Douglas* or *Mr. Gershefski*.

Writing in smaller forms.

477. **COMPOSITION.** 2 hours. Prerequisite: Music 476. *Mr. Douglas* or *Mr. Gershefski*.

Continuation of Music 476.

478. **COMPOSITION.** 2 hours. Prerequisite: Music 477. *Mr. Douglas* or *Mr. Gershefski*.

Writing in larger forms.

### MUSIC LITERATURE COURSES

122. **HISTORY OF MUSIC.** 2 hours. *Mr. Mitchell* or *Mr. Reilly*.

A survey of important musical works and trends from the Baroque Period to the beginning of the Romantic Period.

123. **HISTORY OF MUSIC.** 2 hours. *Mr. Mitchell* or *Mr. Reilly*.

A survey of important musical works and composers from the beginning of the Romantic Period to the present day.

124. **HISTORY OF MUSIC.** 2 hours. *Mr. Mitchell* or *Mr. Reilly*.

Survey of important musical works and trends through the Renaissance.

143. **INTRODUCTION TO MUSIC LITERATURE.** 3 hours. *Mr. Felberg*.

H-259. **HISTORY AND ANALYSIS OF MUSICAL STYLE.** (Not open to students with credit in Music 343, 358 or Fine Arts 300). *Mr. Mitchell*.  
A study of the history and development of music with particular emphasis upon the relationship of music with the important movements in Western civilization.

343. **LISTENER'S HISTORY OF MUSIC.** 3 hours. *The Staff*.

A study of many of the masterpieces of music since the time of Bach; an introduction to music literature.

350. **DEVELOPMENT OF OPERA.** *Mr. Warner*.

A general literature course in the appreciation of the entire field of opera. Illustrations from selected scores played in class.

353. **HISTORY OF PIANO AND VOICE LITERATURE.** 3 hours. *Mr. Reilly*.

358. **HISTORY AND ANALYSIS OF MUSICAL STYLE.** *Mr. Warner*.  
Designed especially for art majors.

442. **WAGNER'S MUSIC DRAMAS.** 3 hours. Prerequisite: Music 122, 123, 124 or equivalent. *Mr. Felberg*.

A course of literary and cultural value, concentrating on a detailed study of the plots and themes of the Wagner operas, with scores played in class.

455. **ADVANCED MUSIC HISTORY.** Prerequisite: Music 122, 123, 124, or equivalent. *Mr. Mitchell* or *Mr. Reilly*.

Special studies in history and literature of music.

456. **BACH-BEETHOVEN-BRAHMS.** 3 hours. Prerequisite: Music 122, 123, 124 or equivalent. *Mr. Felberg*.

A detailed study of the three composers, with their masterpieces performed in class.

457. **BEETHOVAN SYMPHONIES.** 3 hours. Prerequisite: 122, 123, 124, or equivalent. *Mr. Felberg*.

A detailed study of the nine symphonies of Beethoven.

458. **WIND INSTRUMENT LITERATURE.** 3 hours. *Mr. Sweetkind*.

462. **MODERN MUSIC.** Prerequisite: Similar to Music 457. *Mr. Douglas* or *Mr. Reilly*.

A literature course illustrating modern trends in music of Schoenberg, Stravinsky, Hindemith, Bartok, Scriabin, and others.

## MUSIC EDUCATION COURSES

245. VOICE CLASS. 1-6 hours. Study of basic principles of voice production and how to apply them in glee clubs and choruses. *Mr. Leonard* or *Mr. Warner*.
246. PIANO CLASS. 1-9 hours. Study of basic keyboard technique. *Mr. Anderson*.
251. STRING METHODS. 2-4 hours. Basic principles as applied to all strings. *Mr. Felberg* and *Mr. Richter*.
252. WOODWIND METHODS. 2-4 hours. Basic principles as applied to all woodwinds. *Mr. Sweetkind*.
253. BRASS METHODS. 2-4 hours. Basic principles as applied to all brasses. *Mr. Dancz*, *Mr. Douglas*, *Mr. Mitchell*.
254. PERCUSSION METHODS. 2-4 hours. Basic principles as applied to all percussion instruments. *Mr. Reilly*.
263. MUSIC LABORATORY. 1 hour. *Mr. Warner*.  
Laboratory for choral conducting.
264. MUSIC LABORATORY. 1 hour. *Mr. Sweetkind*.  
Laboratory for minor instruments and orchestral conducting.
265. MUSIC LABORATORY. 1 hour. *Mr. Dancz*.  
Laboratory for minor instruments and band conducting.
302. METHODS OF TEACHING PUBLIC SCHOOL MUSIC. For Education majors only. *Mr. Anderson*, *Mr. Dooley*, *Mr. Leonard*.  
Techniques of teaching music in the elementary school; for the classroom teacher.
312. MUSIC FOR ELEMENTARY GRADES. For music majors. Prerequisite: Music 112. *Mr. Dooley*.
313. MUSIC IN JUNIOR AND SENIOR HIGH SCHOOLS. For music majors. Prerequisite: Music 112. *Mr. Dooley*.
361. ELEMENTARY CONDUCTING. 2 hours. Prerequisite: Music 136. *Mr. Warner*.  
Principles of conducting and interpretation with vocal ensembles.
362. ELEMENTARY CONDUCTING. 2 hours. Prerequisite: Music 136. *Mr. Sweetkind*.  
Principles of conducting and interpretation with orchestra and string ensembles.
363. ELEMENTARY CONDUCTING. 2 hours. Prerequisite: Music 136. *Mr. Dancz*.  
Principles of conducting and interpretation with band and wind ensembles.
365. SURVEY OF CHORAL MUSIC AND TECHNIQUE OF CHORAL CONDUCTING. *Mr. Dooley*, *Mr. Leonard*, *Mr. Warner*.
531. PROBLEMS IN VOCAL MUSIC EDUCATION. 3 hours. Prerequisite: Music 312 and 313. *Mr. Dooley*, *Mr. Leonard*, *Mr. Warner*.  
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.
532. PROBLEMS IN INSTRUMENTAL MUSIC EDUCATION. 3 hours. Prerequisite: Music 312 and 313. *The Staff*.  
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.
533. MUSIC ADMINISTRATION AND CURRICULUM. 3 hours. Prerequisite: Undergraduate requirements in education, Music 312 and 313. *The Staff*.  
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.
534. CHORAL MUSIC MATERIALS 3 hours. Prerequisite: Music 312 and 313. *Mr. Dooley*.  
Study and evaluation of music literature available for use in public school at all levels of instruction; research in various mediums and schools of composition which can be adapted for school use.
535. INSTRUMENTAL MUSIC MATERIALS. 3 hours. Prerequisite: Music 312 and 313. *Mr. Douglas*.  
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

(Primarily for Music Majors)

The following courses are offered primarily for music majors, but a limited number of non-majors may be accepted when schedules permit. A laboratory fee of \$30 per quarter is charged to non-majors for each 25-minute lesson taken weekly.

All music students are required to participate in weekly seminars in their major performance media, and to attend student recitals and Music Appreciation programs as scheduled.

Before registering for applied music courses, students must consult with the Head of the Music Department.

181. APPLIED MUSIC. 1 hour (3 hours per year). One 25-minute private lesson a week for three quarters. Laboratory fee course.

182. APPLIED MUSIC. 2 hours (6 hours per year). Two 25-minute private lessons a week for three quarters. Laboratory fee course.

184. APPLIED MUSIC. 4 hours. (12 hours per year). Two 25-minute private lessons a week for three quarters. Laboratory fee course.

281. APPLIED MUSIC. 1 hour. (3 hours per year). Prerequisite: Music 181. One 25-minute private lesson a week for three quarters. Laboratory fee course.

282. APPLIED MUSIC. 2 hours (6 hours per year). Prerequisite: Music 182. Two 25-minute private lessons a week for three quarters. Laboratory fee course.

284. APPLIED MUSIC. 4 hours (12 hours per year). Prerequisite: Music 184. Two 25-minute private lessons a week for three quarters. Laboratory fee course.

290. APPLIED MUSIC. 1 hour. Prerequisite: Music 252 or 253.

381. APPLIED MUSIC. 1 hour (3 hours per year). Prerequisite: Music 281. One 25-minute private lesson a week for three quarters. Laboratory fee course.

382. APPLIED MUSIC. 2 hours (6 hours per year). Prerequisite: Music 282. Two 25-minute private lessons a week for three quarters. Laboratory fee course.

384. APPLIED MUSIC. 4 hours (12 hours per year). Prerequisite: Music 284. Two 25-minute private lessons a week for three quarters. Laboratory fee course.

481. APPLIED MUSIC. 1 hour (3 hours per year). Prerequisite: Music 381. One 25-minute private lesson a week for three quarters. Laboratory fee course.

482. APPLIED MUSIC. 2 hours. (4 or 6 hours per year). Prerequisite: Music 382. Two 25-minute private lessons a week for three quarters for B.F.A. students, with senior recital in third quarter for performance majors. Two 25-minute private lessons a week for two quarters for B.M. Music Education students with senior recital in the second quarter. Laboratory fee course.

484. APPLIED MUSIC. 4 hours. (12 hours per year). Prerequisite: Music 384. Two 25-minute private lessons a week for three quarters. Senior recital for performance majors in third quarter. Laboratory fee course.

## ENSEMBLE COURSES

A maximum of six hours in ensemble courses is allowed toward graduation.

291. CHAMBER MUSIC ENSEMBLE. 1 to 6 hours. (1 hour per quarter.) One hour per week. Open to freshman and sophomore students who can qualify in keyboard, string, or wind instruments. *The Staff*.

387. UNIVERSITY CIVIC SYMPHONY ORCHESTRA. 6 hours. (1 hour per quarter). Three hours per week for two years. Open to students who can qualify. *Mr. Sweetkind*.

388. UNIVERSITY CHORUS. 6 hours (1 hour per quarter). Three hours per week for two years. Open to students who can qualify. *Mr. Dooley*.



390. UNIVERSITY BAND. 6 hours (1 hour per quarter). Four hours per week for two years. Open to students who can qualify. *Mr. Danz.*

491. CHAMBER MUSIC ENSEMBLE. 1 to 6 hours. (1 hour per quarter). One hour per week. Open to junior and senior students who can qualify in keyboard, string, or wind instruments. *The Staff.*

### MUSIC COURSES COMBINED WITH OTHER COURSES

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

710. ADVANCED THEORY. 3 hours. Prerequisite: Music 136. *Mr. Douglas.*

A survey of harmonic and contrapuntal resources with emphasis upon aural and visual analysis.

736. EDITING AND ARRANGING. 3 hours. Prerequisites: Music 375. *The Staff.*

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.

737. SCORE ANALYSIS. 3 hours. Prerequisite: Music 136, 470. *Mr. Douglas* or *Mr. Richter.*

Learning techniques of harmonic and formal analysis and preparation of scores for rehearsal.

738. ADVANCED CONDUCTING. 3 hours. Prerequisites: Music 363, 470. *The Staff.*

Developing conducting technique in rehearsing laboratory; survey and evaluation of materials on conducting.

751. INSTRUMENTAL TECHNIQUES. 2 to 6 hours. *The Staff.*

An advanced study of the performance and teaching techniques of wind, string and percussion instruments.

781. APPLIED MUSIC. 1 to 6 hours. (1 hour per quarter). One 25-minute private lesson a week. Applied music in secondary performance media for graduate students in Music Education. Laboratory fee course.

782. APPLIED MUSIC. 2 to 6 hours. (2 hours per quarter). Two 25-minute private lessons a week. Applied music for Music Education graduate students in their field of concentration. Laboratory fee course.

785. APPLIED MUSIC. 15 hours. (5 hours per quarter). Applied Music for M.F.A. students in their major performance medium. Two 25-minute private lessons a week for three quarters with graduate recital in third quarter. Laboratory fee course.

792. CHAMBER MUSIC ENSEMBLE. 2 hours. One hour per week. Preparation of representative works with faculty members and qualified students. *The Staff.*

793. CHAMBER MUSIC ENSEMBLE. 3 hours. Prerequisite (or co-requisite): Music 792. One hour per week. Preparation of representative works with faculty members and qualified students, to include public recital. *The Staff.*

875. RESEARCH SEMINAR. 5 or 10 hours. *Mr. Mitchell* or *Mr. Reilly.*

876. ACOUSTICS OF MUSIC. *Mr. Douglas.*

A study of the physical nature of sound production and transmission, with particular application to musical instruments, the voice, notation, and architecture.

878. SEMINAR IN SACRED MUSIC LITERATURE. 5 or 10 hours. Prerequisites: Ten hours of senior division music literature courses. *Mr. Mitchell.* Historical development of the large forms of sacred music; the oratorio, the cantata, the passion. Study of the literature.

879. ADVANCED COMPOSITION. 5 or 10 hours. Prerequisite: Music 478. Use of various forms. Public performance of major original composition in large form. *Mr. Gerschefski.*

880. THE SYMPHONY. 5 or 10 hours. Prerequisite: Ten hours of senior division music literature courses. *Mr. Mitchell.*

Historical development of the symphony. Study of important scores. Analysis of masterpieces for the orchestra. Study of orchestral development.

921. MUSIC PROBLEMS. (EDUCATION). Prerequisite: Graduate standing in music. *The Staff.*

Functional study of a topic or problem significantly related to the student's professional goal.

## NURSING

Students interested in working for a Bachelor of Science in Nursing degree are referred to the Dean of Nursing, Medical College of Georgia, Augusta, Georgia. The program earlier carried at the University of Georgia has been transferred to the Medical College of Georgia. Pre-Nursing courses, when approved by the Dean of Nursing, may be taken at the University of Georgia.

## PHILOSOPHY (PHY) AND RELIGION (REL)

(Peabody Hall, North Campus)

Head: Ayers. Philosophy Staff: Blackstone, Broiles, Clarke and Harrison.

## PHILOSOPHY

104. INTRODUCTION TO PHILOSOPHY. *The Staff.*

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.

## H-115 (215). THE FUNDAMENTAL QUESTIONS OF PHILOSOPHY (HONORS).

*Mr. Blackstone.*

A study of the fundamental questions of philosophy and the answers given to those questions by the major schools of philosophical thought. Not open to any student having credit for Philosophy 104.

305. ETHICS. *Mr. Blackstone and Mr. Broiles.*

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. 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. *The Staff.* (Offered in alternate years. Offered in 1964-65).

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 or consent of the instructor. *The Staff.* (Offered in alternate years. Offered in 1964-65).

Traces the development of European philosophy up to the nineteenth century.

358. MODERN LOGIC. *Mr. Broiles, Mr. Clarke and Mr. Harrison.*

A study of the principles and problems of critical thinking, especially of deductive reasoning, both sentential and class. Consideration is given to the more frequently used logical formulae; the uses of language, logical, emotional and volitional; the making of definitions; and the logical fallacies.

404. CLASSICAL AMERICAN PHILOSOPHIES. Prerequisite: At least one course in philosophy other than 358. *Mr. Clarke*

A study of the major writings of C. S. Pierce, William James, and John Dewey and their influence on the development of contemporary philosophy.

405. CONTEMPORARY ETHICAL THEORIES. Prerequisite: Philosophy 305, two other courses in philosophy, or consent of instructor. *Mr. Blackstone.*

A study of the nature and justification of fundamental ethical concepts and moral principles with special emphasis on the ethical theories of contemporary Anglo-Saxon moral philosophers.

408. (RELIGION) PHILOSOPHY OF RELIGION. *Mr. Ayers.*

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. *Mr. Clarke.*

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 or consent of the instructor. *Mr. Clarke.* (Offered in alternate years. Offered in 1965-66).

Selected readings in important philosophers, modern and contemporary.

411. (ART) AESTHETICS. *Mr. Broiles.*

The philosophy of the beautiful and of aesthetic values in art, literature, music, or wherever found. 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.

444. SYMBOLIC LOGIC. (Mathematics 444). Prerequisite: Philosophy 358 or consent of instructor. *Mr. Clarke and Mr. Harrison.*

An advanced course dealing with both traditional and modern methods in logic, especially the contributions of symbolic and mathematical logic.

450. CONTEMPORARY PHILOSOPHY. Prerequisite: At least one course in philosophy other than 358. *The Staff.*

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.

459. PHILOSOPHY OF SCIENCE. *Mr. Harrison.*

A study of the methods, principles, and problems of inductive reasoning, including the nature of probable inference, techniques of verification, and the structure of scientific explanation.

490. METAPHYSICS AND EPISTEMOLOGY. Prerequisite: At least one course in philosophy. *Mr. Clarke.*

The problems of metaphysics and the relationship of metaphysical concepts to the theory of knowledge.

464. (MATHEMATICS 464). INTRODUCTION TO METAMATHEMATICS. Prerequisite: Philosophy 444 or Mathematics 255. *Mr. Clarke and Mr. Harrison.*

The problem of foundations and the metamathematical investigation of elementary number theory are introduced with the requisite symbolic 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. Parthemos.*486. (POLITICAL SCIENCE) POLITICAL PHILOSOPHIES OF RECENT TIMES. *Mr. Parthemos.*800, 801, 802. PHILOSOPHICAL SYSTEMS OF PLATO, ARISTOTLE, AND THE MIDDLE AGES. 5 hours each. Prerequisite: At least three courses in philosophy. *Mr. Blackstone and Mr. Clarke.*

A study of the philosophical systems of the classical pre-modern and philosophers. 800 deals with the thought of Plato, 801 with Aristotle, and 802 with the Middle Ages.

810, 811, 812. PHILOSOPHICAL SYSTEMS OF CONTINENTAL RATIONALISM, BRITISH EMPIRICISM, AND KANT. 5 hours each. Prerequisite: At least three courses in philosophy. *Mr. Blackstone and Mr. Harrison.*

A study of the philosophical systems of the classical modern philosophers. 810 deals with Continental Rationalism, 811 with British Empiricism, and 812 with Kant.

814. RECENT SCHOOLS OF EMPIRICISM. Prerequisite: At least three courses in philosophy. *Mr. Blackstone and Mr. Harrison.*

A study of logical empiricism and analytical philosophy.

## RELIGION (REL)

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.

410. OLD TESTAMENT LITERATURE. *Mr. Ayers.* (Offered in 1965-66).

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.* (Offered in 1965-66).

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. PERSONALITIES OF THE OLD TESTAMENT. *Mr. Ayers* (Offered in 1964-65).

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 teaching of the great writing prophets of Israel.

440. THE TEACHINGS OF JESUS. *Mr. Ayers.* (Offered in 1964-65).

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.

*For convenience of the students, courses approved for transfer credit when taken at the Christian College of Georgia are listed below. A maximum of 15 hours may be transferred. Each course carries 5 hours of credit. Classes are held at the Christian College, 220 South Hull Street.*

**320. RELIGION IN AMERICA. Mr. David.**

The rise and development of organized religion in the United States from the Colonial period to the present; principally a study of American Catholicism, Judaism and Protestantism and their significance as a major factor in the development of American life.

**330. THE RELIGIOUS THOUGHT OF THE BIBLE. Mr. David.**

The leading religious ideas of both the Old and New Testaments; their rise and development; and their importance to Hebrew-Christian religion.

**331. THE JOHANNINE BOOKS OF THE NEW TESTAMENT. Mr. David.**

The Gospel, Letters, and Revelation of John, including the critical problems dealing with these books, with major emphasis on their content and religious value for Christians of the first century and today.

**332. THE LIFE AND LETTERS OF PAUL. Mr. David.**

An historical-exegetical study of the life and letters of Paul; the relationship between Acts and the Pauline Epistles, early non-Pauline Gentile Christianity, the Pauline theology and its lasting impression on Christianity.

**341. THE ORIGIN AND DEVELOPMENT OF CHRISTIANITY TO 1500 A. D. Mr. David.**

Historical and social background of the rise of Christianity; and a study of the interrelation between Christianity and Western Civilization during the periods of early and medieval Christianity.

**350. RELIGION DURING THE REFORMATION AND MODERN PERIODS. Mr. David.**

A socio-historical presentation of the development of Christianity in the reformation and modern periods in Europe; Christianity's relation to the growth of Western Civilization.

## PHYSICS AND ASTRONOMY\*\* (PCS)

(Physics Building, South Campus)

Acting Head: Cooper. Staff: Dixon, Duggan, Duncan, Henkel, Henry, Rayburn, Reuning, Rives, Rogers, Sears, Steuer, Thompson.

### ASTRONOMY

**391. DESCRIPTIVE ASTRONOMY.** Prerequisite: Physical Science 101 or equivalent. Four lecture and one two-hour laboratory periods per week. *Mr. Reuning.*

This course is designed for the student who desires to acquaint himself with the stars, the members of the solar system, their motions and constitution. The laboratory and observing work includes exercises with the celestial globe, star maps, plotting hemisphere, telescopes, and a planetarium.

**591. ASTRONOMY FOR TEACHERS.** Not open to students with credit in Astronomy 391. Four hours of recitations and two hours of laboratory per week. Prerequisite: 10 hours of physics and 20 hours of physical science (physics, chemistry, geology, mathematics, and astronomy). *Mr. Reuning.*

Discussions, lectures, and laboratory exercises focused on the problems that are involved in science teaching in the secondary schools relative to astronomical concepts and procedures.

### PHYSICAL SCIENCE (PSC)

**101. PHYSICAL SCIENCE.** *No credit will be allowed for Physical Science 101 if a student shows prior credit for any course in physics. The 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 application 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.

### PHYSICS (PCS)

**120. PHYSICS SURVEY.** *Not open to students who have credit for Physical Science 101 or any course in physics.* Four lectures and one two-hour laboratory period. *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. *This is a terminal course.*

\*\*Students may be held responsible for breakage in laboratory courses.

127. GENERAL PHYSICS—MECHANICS. Four hours of recitation and two hours of laboratory work. Prerequisites: Mathematics 100-101. *The Staff*. An introductory course that deals with the fundamental laws of mechanics.

128. GENERAL PHYSICS—HEAT, SOUND, AND LIGHT. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 127. *The Staff*. An introductory course dealing with the fundamental laws of heat, sound, and light.

137. GENERAL PHYSICS—MECHANICS. No credit will be allowed for Physics 137 if credit is shown for Physics 127. Four hours of recitation and two hours of laboratory work. Prerequisites Mathematics 254. Corequisite: Mathematics 255. *The Staff*.

Fundamental laws of mechanics. The calculus is used as a mathematical tool in order to lead to a better understanding of the physical principles studied.

138. GENERAL PHYSICS—HEAT, SOUND, AND LIGHT. No credit will be allowed for Physics 138 if credit is shown for Physics 128. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 137. *The Staff*.

Fundamental laws of heat, sound, and light. The calculus is used as a mathematical tool in order to lead to a better understanding of the physical principles studied.

229. GENERAL PHYSICS—ELECTRICITY, MAGNETISM AND MODERN PHYSICS. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 128. *The Staff*.

Fundamental laws of electricity and magnetism. Some of the newest developments in the general field of physics are also discussed.

239. GENERAL PHYSICS—ELECTRICITY, MAGNETISM, AND MODERN PHYSICS. No credit will be allowed for Physics 239 if credit is shown for Physics 229. Four hours of recitation and two hours of laboratory work. Prerequisite Physics 138. *The Staff*.

Fundamental laws of electricity and magnetism. Some of the newest developments in the general field of physics are also discussed. The calculus is used as a mathematical tool in order to lead to a better understanding of the physical principles studied.

332. EXPERIMENTAL ELECTRICITY AND MAGNETISM. Three hours of recitation and four hours of laboratory work. Prerequisite: Physics 229, Mathematics 254 and Mathematics 255. *The Staff*.

An intermediate course in electrical and magnetic measurements.

333. LIGHT. Three hours of recitation and four hours of laboratory work. Prerequisite: Physics 229, Mathematics 254 and Mathematics 255. *The Staff*. An intermediate course stressing experimental work on reflection, refraction, interference, diffraction, and polarization of light.

334. HEAT AND THERMODYNAMICS. Four hours of recitation and two hours of laboratory work. Prerequisite: Physics 229, Mathematics 254 and Mathematics 255. *The Staff*.

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.

372. NUCLEAR RADIATIONS. Four hours of recitation and two hours of laboratory work. Prerequisites: Physics 229, Mathematics 254, and Mathematics 255. *Mr. Duggan, Mr. Rayburn, Mr. Steuer or Mr. Thompson*.

An intermediate course dealing with some of the recent developments in physics.

380. ELECTRONICS. Three hours of recitation and four hours of laboratory work. Prerequisite: Physics 332. *The Staff*.

An introduction to the theory and applications of basic electronic devices.

400. PHYSICS SEMINAR. One hour credit per quarter. Two hours per week. Required of all senior students majoring in physics. *The Staff*.

Discussion of various topics in the field of physics.

404, 405. THEORETICAL MECHANICS. Four hours each. Four hours of recitation per week. Prerequisite for 404: Physics 229. Corequisite for 404: Mathematics 401. *The Staff*.

These courses develop within the framework of Newtonian principles: Statics, kinematics and dynamics of a particle and of systems of particles, mechanics of continuous media, and Lagrange's equations.

420, 421. ELECTRICITY AND MAGNETISM. Four hours each. No credit will be allowed for Physics 420 if credit is shown for Physics 471. Four hours of recitation per week. Prerequisites for 420: Physics 332 and Mathematics 401. *The Staff*.

Beginning with the experimentally determined laws of Coulomb, Ampere, Biot-Savart, Faraday, and others the fundamental methods of Gauss and Stokes will be applied to develop logically the complete theory as embodied in Maxwell's equations.

430. THERMODYNAMICS. No credit will be allowed for Physics 430 if credit is shown for Physics 434. Five hours of recitation per week. Prerequisites: Physics 229 and Mathematics 401. Corequisite: Mathematics 457. *The Staff.*

The laws of thermodynamics and their application to the fundamental concepts of physics.

431. KINETIC THEORY AND STATISTICAL MECHANICS. Five hours of recitation per week. Prerequisites: Physics 404 and Physics 430. *The Staff.*

An introduction to the study of statistical mechanics and its application to the study of gases.

440. METHODS OF THEORETICAL PHYSICS. No credit will be allowed for Physics 440 if credit is shown for Physics 401. Five hours of recitation per week. Prerequisites: Physics 404 and Mathematics 457. *The Staff.*

The application of advanced mathematics to the solution of the ordinary and partial differential equations encountered in courses in advanced physics.

450. ATOMIC PHYSICS. No credit will be allowed for Physics 450 if credit is shown for Physics 481. Four hours of recitation and two hours of laboratory per week. Prerequisites: Physics 333 and Physics 404. *The Staff.*

This course develops atomic theory as may be determined from optical and X-ray spectra and the interaction of atoms with electric and magnetic fields. Atomic spectra will be interpreted with the aid of Schrodinger's wave equation.

472, 473. NUCLEAR STRUCTURE. 4 hours each. Four hours of recitation per week. Prerequisite for 472: Physics 450. *Mr. Duggan, Mr. Duncan, Mr. Rayburn, Mr. Steuer, and Mr. Thompson.*

Introduction to the theory of nuclear structure as it has been inferred from quantum mechanical considerations and the study of experimental data on radioactivity and nuclear reactions.

482, 483. SOLID STATE PHYSICS. 4 hours each. No credit will be allowed for Physics 482 if credit is shown for Physics 491. Four hours of recitation per week. Prerequisites for 482: Physics 404; Physics 430 desirable. *The Staff.*

Elastic, electrical, magnetic, and thermal properties of solids. Covers such topics as: crystal structure, X-ray and neutron diffraction, elasticity, crystal imperfections, thermal and electrical conduction, spin resonance, the photoelectric effect, and transistor theory.

528. HEAT, SOUND, AND LIGHT. Four lecture and discussion and one two-hour laboratory period per week. Prerequisite: 15 hours of physics and 20 hours of physical science. *Credit is limited to students working for a degree in Education. Mr. Dixon and Mr. Sears.*

This course is designed to aid the elementary physics teacher in dealing with problems in heat, sound, and light which may arise in his teaching. The factors involved in the effective presentation of physical concepts in these areas will be emphasized.

529. ELECTRICITY, MAGNETISM, ELECTRONICS AND RADIOACTIVITY. Four lecture and discussion and one two-hour laboratory period per week. Prerequisites: 15 hours of physics (or the equivalent) and 20 hours of physical science. *Mr. Dixon and Mr. Sears.*

This course is designed to aid the elementary physics teacher in dealing with problems in electricity, magnetism, electronics, and radioactivity which arise in his teaching. The factors involved in the effective presentation of physical concepts in these areas will be emphasized. *Credit is limited to students working for a degree in Education.*

801, 802, 803. ADVANCED ANALYTICAL MECHANICS. 5 hours each. No credit will be allowed for Physics 801, 802 or 803 if credit is shown for Physics 817, 818, or 819, respectively. Three hours of recitation per week. Prerequisites for 801: Physics 605. *The Staff.*

Systems of particles, D'Alembert's principle, principle of least action, Hamilton's principle, generalized co-ordinates, Poisson brackets, and the Hamilton-Jacobi equation.

810, 811, 812. QUANTUM MECHANICS. 5 hours each. Three hours of recitation per week. Prerequisites for 810: Physics 621 and Physics 803. *The Staff.*

Basic principles of quantum theory, wave mechanics, and the application of these principles to problems in modern physics.

820, 821, 822. ADVANCED ELECTROMAGNETIC THEORY. 5 hours each. Three hours of recitation per week. Prerequisites for Physics 820: Physics 621 and Mathematics 458. *The Staff.*

Maxwell's equations are assumed initially and used to investigate classical electromagnetic phenomena. Beginning with the static phenomena the study will include the theory of multipoles, the radiation and propagation of electromagnetic waves, and the related reflection, refraction, diffraction, and dispersion phenomena.

830, 831, 832. STATISTICAL MECHANICS. 5 hours each. Three hours of recitation per week. Prerequisite for Physics 830: Physics 810. *Mr. Henkel.*

A study of the basic theory of statistical mechanics and its applications to the solution of some fundamental problems in physics.

850, 851, 852. MOLECULAR SPECTRA AND STRUCTURE OF DIATOMIC AND POLYATOMIC MOLECULES. 5 hours each. Three hours of recitation per week. Prerequisites for 850: Physics 650; Physics 810. *Mr. Cooper* and *Mr. Sears*. A study of the structure of molecules as may be determined from their rotational, vibrational, and electronic spectra. The theory of molecular spectra will be presented for diatomic and selected polyatomic molecules.

855, 856. INFRARED SPECTROSCOPY. 5 hours each. Three hours of recitation per week. Prerequisite for 855: Physics 650. *Mr. Sears*. A study of the origin of infrared spectra in polyatomic and polymeric molecules. Infrared spectrophotometer instrumentation, infrared determination of molecular structure, qualitative analysis, and quantitative analysis of organic compounds will be treated.

873, 874, 875. NUCLEAR THEORY. 5 hours each. No credit will be allowed for Physics 873 if credit is shown for Physics 872. Three hours of recitation per week. Prerequisites for 873: Physics 673 and Physics 812. *Mr. Duncan*. A course in advanced nuclear theory. Some of the topics covered are: Multipole radiations, polarization phenomena, resonance theory, and nuclear scattering phenomena.

## POLITICAL SCIENCE (POL)

(LeConte Hall, North Campus)

Head: Parthemos. Staff: Askew, Clute, Collins, Crotty, Gibson, Hughes, Moran, Pound, Range, Saye, Zeigler.

### AMERICAN GOVERNMENT AND AMERICAN CONSTITUTIONAL LAW

#### 101. AMERICAN GOVERNMENT. *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.

H-105. AMERICAN GOVERNMENT (HONORS). Not open to students with credit in Political Science 101. *Mr. Gibson, Mr. Hughes, Mr. Parthemos, Mr. Range, Mr. Saye, and Mr. Zeigler*.

An introduction to political science with emphasis on American political institutions, supplemented by reading designed to introduce the students to the source materials of American political theory and the development of American political institutions.

202. AMERICAN GOVERNMENT. Prerequisite: Political Science 101. All students who expect to major in Political Science are advised to take this course. *Mr. Parthemos*.

A continuation of Political Science 101 with emphasis on governmental policies, functions, and programs and on the internal organization and actual workings of the various administrative departments and agencies of our national government.

#### 410. AMERICAN POLITICAL PARTIES. *Mr. Zeigler*.

A study of the influence of political parties on the governmental organization and on the history and political thought of the United States.

#### 411. THE ELECTORAL PROCESS. *Mr. Zeigler*.

An examination of the factors which contribute to an electoral choice. Both psychological and sociological influences are considered.

#### 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.

#### 883-884. PROBLEMS OF CONSTITUTIONAL GOVERNMENT IN THE UNITED STATES. 5 hours for each course. *Mr. Saye*.

Courses designed to provide individual or small group instruction for graduate students who are interested in an extensive study of special problems of American government.

### STATE AND LOCAL GOVERNMENTS

#### 405. THE CONSTITUTION OF GEORGIA. *Mr. Saye*.

An historical survey of the evolution of the Constitution of Georgia followed by a detailed study of the present Constitution through decisions and opinions of the Supreme Court of Georgia.

406. STATE GOVERNMENT. *Mr. Askew and Mr. Saye.*

A study of the forms of organization, the functions, and the operation of state governments 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.

468. CITY AND COUNTY GOVERNMENT. *Mr. Askew.*

Organization and operation of city and county governments in the United States. Political aspects of these governments and techniques of citizen participation.

885-886. READINGS AND RESEARCH IN PROBLEMS OF GOVERNMENT IN GEORGIA. 5 hours for each course. *Mr. Saye.*

Courses designed to provide individual instruction for graduate students in an intensive study of special problems of Georgia government.

## POLITICAL THEORY

H-300. (SOCIOLOGY) SOCIAL THEORY (HONORS COLLOQUIUM). *Mr. Parthemos, Mr. Robinson.*

A study of some major theories concerning man's political, economic, educational, and religious institutions, emphasizing a cross social science disciplinary approach.

408. AMERICAN POLITICAL THOUGHT TO 1800. *The Staff.*

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. *The Staff.*

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. Parthemos.*

A 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. Parthemos.*

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.

801. SCOPE AND METHOD IN POLITICAL SCIENCE. *Mr. Zeigler.*

A survey of recent methodological developments in political research. Particular attention is given to the use of quantitative materials.

## COMPARATIVE GOVERNMENTS AND INTERNATIONAL RELATIONS

307. EUROPEAN GOVERNMENTS. *Mr. Clute.*

The principles and forms of organization of the governmental systems of Europe.

311. THE GOVERNMENTS OF LATIN AMERICA. *The Staff.*

A study of the principles and forms of organization of the governments of Latin America.

351. GOVERNMENT AND POLITICS OF BRITAIN. *Mr. Askew.*

The structure and functioning of British government. Policy and administration in several fields of national and international importance will be studied.

412. THE GOVERNMENT OF THE SOVIET UNION. *Mr. Clute.*

A study of the government of the Soviet Union. Emphasis will be placed on the fundamental principles upon which the government is founded and the machinery by which these principles are effected.

420. INTERNATIONAL RELATIONS. *Mr. Range.*

An introductory study of the forces and practices dominating contemporary international political relations.

421. INTERNATIONAL ORGANIZATION. *Mr. Range.*

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.

422. INTERNATIONAL LAW. *Mr. Clute.*

The elements of international law, chiefly as applied and interpreted by the United States.

481. POLITICAL INSTITUTIONS. *Mr. Askew.*

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.

820. READING AND RESEARCH IN INTERNATIONAL POLITICS. Prerequisites: Political Science 420 or permission of instructor. *Mr. Range.*

An advanced seminar in the principles and practices of international politics.

821. READING AND RESEARCH IN INTERNATIONAL ORGANIZATION. Prerequisites: Political Science 420 and 421 or permission of instructor. *Mr. Range.*

An advanced seminar in the principles, structure and practices of international governmental organizations.



## PUBLIC ADMINISTRATION

441. PRINCIPLES OF PUBLIC ADMINISTRATION. *Mr. Gibson and Mr. Hughes.*

General principles and problems of administrative organization, relationships, and controls in the United States. Problems of personnel, finance, administrative law, and the growth and significance of administrative legislation and adjudication. The administrative process is considered in its democratic setting as it is influenced by political beliefs, legislatures, and pressure groups.

442. PUBLIC PERSONNEL ADMINISTRATION. *Mr. Gibson and Mr. Hughes.*

Procedures, and problems of governmental personnel administration. Human relations aspects. Studies of governmental agencies are employed to give the students first hand knowledge of governmental personnel administration.

443. PUBLIC FINANCE ADMINISTRATION. *Mr. Gibson and Mr. Hughes.*

Activities involved in the collection, custody and expenditure of public revenue, namely: the assessment and collection of taxes, public borrowing and debt administration, the preparation and enactment of the budget, financial accountability and the audit.

445. COMPARATIVE ADMINISTRATION. *Mr. Gibson.*

A study of the administrative structures and practices of selected western and non-western countries with major emphasis on the differences and similarities.

492. ADMINISTRATIVE LAW. *Mr. Gibson.*

The legal principles and practical doctrines involved in the work of administrative agencies vested with quasi-legislative or quasi-judicial powers.

841. PROBLEMS IN PUBLIC ADMINISTRATION. *Mr. Gibson.*

A graduate course involving the segregation and analysis of problems inherent in any large administrative agency.

## PSYCHOLOGY (PSY)

(Meigs Hall, North Campus, unless otherwise specified)

Head: Hammock. Staff: Craig, Davis, Fox, Hammes, Hodge, James, McBride, McDaniel, Moss, Osborne, Peacock, Sipprelle, Taylor, Thor, Wildman, Young, Zimmer.

All courses in the Psychology Department are in the Biological Science Division except Psychology 101, 371, 373, 414, 440, 464, 582, 586, 587, 592, 593, and 594, which are in the Social Science Division. Psychology 101 is a prerequisite to all other courses in Psychology except Psychology 258. It is recommended that no freshman be registered for psychology during his first quarter. Psychology 322 is required of all psychology majors.

*Unless otherwise stated, ten senior division credit hours in psychology are prerequisite to the 400-level courses.*

99. READING AND STUDY SKILLS. No credit. Five class meetings including two hours individual practice. *Miss Davis.*

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.

101. ELEMENTARY PSYCHOLOGY. *The Staff.*

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.

H-103 (203). GENERAL PSYCHOLOGY (HONORS). Not open to students with credit in Psychology 101. 5 hours. *The Staff.*

A survey of general psychology, with emphasis on theoretical issues in current psychology and on methodological problems encountered in the area.

## 200. APPLIED STATISTICS. (See Statistics 200).

258. THE PSYCHOLOGY OF ADJUSTMENT. *The Staff.*

A course in mental hygiene, dealing with the appropriate and inappropriate reactions to frustration and stress. Solutions of conflicts, fears, and anxiety. Building emotional stability and preventing mental illness.

295. INTRODUCTION TO CHILD DEVELOPMENT. (See Home Economics 295).

## GENERAL-EXPERIMENTAL PSYCHOLOGY

300. SPECIAL PROBLEMS. 2-5 hours. Prerequisite: Twenty hours in psychology. *The Staff.*

A course designed for the advanced undergraduate student who wishes to conduct independent study and research.

322. EXPERIMENTAL PSYCHOLOGY. Lecture and discussion with periodic laboratory periods. Prerequisite or corequisite: Psychology 200 or consent of instructor. *Mr. Hodge and Mr. Thor.*

An introduction to experimental method in the study of behavior. Class and laboratory work are designed to acquaint the student with the logic of science and psychology, the principles of experimental design, the research techniques of psychophysics and psychological scaling.

374. GENETIC PSYCHOLOGY. *Miss Young.*

The evolution of structure and behavior. The problems of childhood, maturity, and senescence as integral parts of the life cycle are given careful study.

404. HISTORY OF PSYCHOLOGY. Prerequisite: 5 additional hours credit in senior division in psychology. *Mr. Peacock.*

An overview of the history of psychology and recent systematic developments.

405. SYSTEMS IN PSYCHOLOGY. Prerequisites: Psychology 101 and 404. *Mr. Peacock.*

An investigation of the theoretical systems in psychology since 1880, with emphasis upon the types of research which these systems have produced.

452. THEORIES OF MOTIVATION. 2 hours. *Mr. Hammes.*

Cognitive and neurological theories of motivation. Current experimental research in the area of motivation.

455. PSYCHOLOGY OF LEARNING. Prerequisites: Psychology 101 and 322. *Mr. Hodge.*

An empirical and theoretical study of classical and instrumental conditioning, discrimination learning, the acquisition of complex skills, and response elimination.

456. PSYCHOLOGY OF SENSATION. Prerequisites: Psychology 322 or equivalent. *Mr. Peacock.*

Current experimental findings and theories of vision, audition, kinesthesia, vestibular function, the skin senses, and chemical sensitivity.

457. PSYCHOLOGY OF PERCEPTION. 3 hours. Prerequisite: Psychology 322. *Mr. Hammes and Mr. Thor.*

The phenomena of attention, apprehension, apparent movement, perceptual closure, perceptual constancy, perceptual judgment, and time and space perception are investigated. Empirical and experimental demonstrations are conducted, followed by a study of the various theories of perception.

480. PHYSIOLOGICAL PSYCHOLOGY. Prerequisites: 10 hours in biology. *Mr. James.*

In this course the personality is viewed as the integration of the morphological, physiological and psychological aspects of the organism. The relationship between the internal environment and such behaviors as food intake control; mating behavior; neural action; emotion; hibernation; sleep and activity; etc.

481. COMPARATIVE PSYCHOLOGY. Prerequisite: 10 hours in biology. *Mr. James.*

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.

## INDUSTRIAL AND PERSONNEL PSYCHOLOGY

371. APPLIED PSYCHOLOGY. *The Staff.*

A survey of the applications of the principles of psychology to social, professional, industrial, and educational fields.

414. PSYCHOLOGY OF PERSONNEL—AN INTRODUCTION. *The Staff.*

A survey of the entire area of personnel psychology applied to the fields of business, industry and government.

582. (BUSINESS ADMINISTRATION) EMPLOYMENT METHODS: TESTING. 3 hours. Prerequisites: Statistics. *The Staff.*

This course will consist of taking tests and interpreting the scores in reference to specific employment situations. The student will learn the values and limitations of tests, as well as how to validate them in new situations.

586. (BUSINESS ADMINISTRATION) JOB EVALUATION. 3 hours. Prerequisites: Statistics. *The Staff.*

A study of various methods of Job Analysis and Job Evaluation. The advantages and disadvantages of the various systems in relation to the types of work situations are considered and actual jobs analyzed and evaluated.

587. (BUSINESS ADMINISTRATION) WORK AND EFFICIENCY. 3 hours. Prerequisites: Mathematics 200 or Economics 312. *The Staff.*

A study of human aptitudes in relation to work and equipment design. Lighting, noise, ventilation, motor activities, body orientation, machine controls, etc. in relation to human limitations are studied.

592. (BUSINESS ADMINISTRATION) EMPLOYMENT METHODS: INTERVIEWING. 2 hours. Prerequisites: Statistics. *The Staff*.

A study about employment interviewing as well as practice in both interviewing and being interviewed. The limitations of this procedure as a basis for critical decisions.

593. (BUSINESS ADMINISTRATION) WORK MEASUREMENT. 2 hours. Prerequisites: Mathematics 200 or Economics 312. *The Staff*.

Methods of measuring work and the factors which affect the duration of work with special emphasis on standardized time tables. Principles of work methods and job layouts.

594. (BUSINESS ADMINISTRATION) MERIT RATING. 2 hours. Prerequisites: Mathematics 200 or Economics 312. *The Staff*.

Study ways of determining the worth of employees on jobs where quantitative measurement is impossible. Methods of determining traits for rating, of weighting traits, and of rating traits.

## PSYCHOLOGICAL TESTING

403. TEST CONSTRUCTION. 2 hours. Prerequisite: Mathematics 200 or equivalent. *The Staff*.

Theory of psychological measurement, criterion development, concepts and methods of determination of reliability and validity writing of test items.

415. PSYCHOMETRICS. *Mr. Osborne*.

A course designed to give the student an introduction to the essentials of psychological testing with experience in administering, scoring, and interpreting tests, including those of scholastic achievement, mental ability, scholastic aptitude, interest and personality.

416. INDIVIDUAL PSYCHOLOGICAL TESTING: WECHSLER-BELLEVUE METHOD. 3 hours. Prerequisite: Psychology 415. *Mr. Osborne*.

Training in the administration, scoring and interpretation of the Wechsler Scales. All students are required to achieve a minimum competency in the use of these scales for both children and adults but the major part of the practical work may be in the age range selected by the student.

418. INDIVIDUAL PSYCHOLOGICAL TESTING: TERMAN-MERRILL SCALES. 2 hours. Prerequisite: Psychology 415. *Mr. Osborne*.

Training in the administration, scoring and interpretation of the Terman-Merrill revision of the Binet Scales. All students are required to achieve a minimum competency in the use of these scales for both children and adults but the major part of the practical work may be in the range selected by the student.

419. INTRODUCTION TO PROJECTIVE TECHNIQUES: RORSCHACH METHOD. 3 hours. Prerequisites: Psychology 415, 416, and 423. *Mr. Taylor*.

An introduction to the theory, administration, scoring and interpretation of Rorschach Method. The class is limited and is open only to advanced students with adequate background in psychological measurement and theory of personality. Registration only by permission of the instructor.

420. INTRODUCTION TO PROJECTIVE TECHNIQUES: THEMATIC APPERCEPTION TEST. 2 hours. Prerequisites: Psychology 415, 416, and 423. *Mr. Taylor*.

An introduction to the theory, administration, scoring, and interpretation of the Thematic Apperception Test. The class is limited and is open only to advanced students with adequate background in psychological measurement and theory of personality. Registration only by permission of the instructor.

## PERSONALITY AND SOCIAL

295. INTRODUCTION TO CHILD DEVELOPMENT. (See Home Economics 295).

373. (SOCIOLOGY) SOCIAL PSYCHOLOGY. 3 hours. *The Staff*.

The social aspects of psychology; the origin and development of social behavior, interaction of individuals within groups, social motivation, suggestion, and attitudes. Methods of research in social psychology with special attention to use of experimental techniques.

421. THE STUDY OF CONFLICT. Prerequisite: 15 hours of Psychology and 5 hours of Statistics. *The Staff*.

Methods of measuring conflict are described, and contemporary experimentation employing various indices of conflict is analyzed.

422. EXPERIMENTAL DESIGN IN PSYCHOPATHOLOGY.. Prerequisite: 15 hours of Psychology and 5 hours of Statistics. *The Staff*.

An exposition of successful research designs in psychopathology. The design and refinement of workable experiments directly relevant to the area of behavior disorders.

423. PSYCHOLOGY OF THE ABNORMAL. Lectures, discussions and clinical work. *Miss Young*.

The study of the various forms of mental illness and maladjustment, including mental deficiency, and anti-social behavior. The course is planned especially for students going into psychology, medicine, nursing, social work, or special types of educational work.

440. SOCIAL PSYCHOLOGY: ATTITUDE MEASUREMENT (SOCIOLOGY). 2 hours. Prerequisite: Mathematics 200 or equivalent. *The Staff*.

Theories and methods of construction of attitude scales: This will consist of an examination of the assumptions and procedures involved in the Thurstone, Likert, and Guttman scaling techniques.

451. THEORIES OF PERSONALITY. *Mr. Hammes*.

The biological and psychological foundations of personality will be studied. Emphasis will be placed on the integrated aspects of personality.

453. INDIVIDUAL DIFFERENCES. 3 hours. Prerequisite: Mathematics 200 or equivalent. *The Staff*.

The nature and interrelationships of psychological traits; the relationships between behavioral and structural characteristics; theories of constitutional types; the distribution of individual differences; effects of heredity, growth, and training.

459. MENTAL HYGIENE. *The Staff*.

An advanced course dealing with mental hygiene problems, especially of children and adolescents; problems of different stages of maturation adjustments in the home, school and play group; and special needs in cases of retardation and delinquency.

460. DYADIC INTERACTION ANALYSIS. Prerequisite: Consent of instructor. *The Staff*.

Methods applicable to the analysis of dyadic interaction are studied.

464. ADVANCED SOCIAL PSYCHOLOGY. 3 hours. Prerequisite: Psychology 373. *The Staff*.

Development and importance of language and communication in social behavior; concepts and methods of studying decision-making; the role of motivation, frustration, and conflict in social processes.

465. METHODS AND PRACTICES IN CLINICAL PSYCHOLOGY. Prerequisite: Qualified Junior, Senior, or Graduate Students. *Mr. Wildman*.

Elementary skills in Clinical Psychology. Personality and Abnormal Psychology. Students will be instructed in diagnostic evaluations, psychological treatment, and clinical research. They will observe the functioning of the different disciplines involved in a mental hospital, and will become familiar with the total operation of the hospital.

490. DEVELOPMENT OF THE YOUNG CHILD. Four lectures and two periods of supervised observation in Nursery School and Infant Center. Prerequisite: Psychology 101, or a satisfactory substitute. *Miss McPhaul* and *Miss Young*.

The physical, mental, emotional, and social development of the preschool child, and the origins of psychological processes; in laboratory work, special reference to techniques of guidance.

## GRADUATE COURSES IN PSYCHOLOGY

800. SEMINAR IN PSYCHOLOGY. Non-credit. Prerequisite: Undergraduate major in Psychology. *The Staff*.

Weekly meetings for the full year devoted to discussion of current literature and problems dealing with research in Psychology.

804. ANIMAL LEARNING. Prerequisites: Graduate major in psychology or consent of instructor. *Mr. Peacock*.

Techniques and problems in the use of infra-human subjects in the study of the learning process. Classical and instrumental conditioning, discrimination learning, and related methods are discussed and demonstrated.

805. THEORIES OF LEARNING. *Mr. James*.

An analysis of the major theories of learning current among research psychologists.

806. VISION. Prerequisites: Psychology 456-656. *Mr. Hodge*.

A detailed examination of the major phenomena of vision.

807. AUDITION. Prerequisites: Psychology 456-656 or equivalent. *Mr. Peacock*.

Theories of hearing and their experimental bases are examined in detail, along with demonstrations of experimental techniques in the area.

808. SKIN SENSES. Prerequisites: Psychology 456-656 or equivalent. *Mr. Peacock*.

A study of the cutaneous, chemical, kinesthetic, and vestibular senses.

815. RORSCHACH INTERPRETATION. Prerequisite: Consent of instructor. *Mr. Taylor*.

The interpretation of protocols through the use of psychograms, computed ratios and content analysis. An integration of those interpretations with other case materials is attempted.

811-812. CLINICAL PROCEDURES IN PSYCHOLOGY: ADULTS. Prerequisite: Consent of instructor. *Mr. Sippelle*.

Clinical cases are studied intensively with psychological tests, with the objective of preparing summaries which give a comprehensive picture of the personality. Practical experience in dealing with psychological problems under supervision.

813-814. **CLINICAL PROCEDURES IN PSYCHOLOGY: CHILDREN.** 5 hours each. Prerequisites: Psychology 416, 418, 423, or consent of instructor. *Miss Young.*

In these courses clinical cases will be evaluated, utilizing diagnostic play, standard tests and interviews. Students will be supervised in actual case contacts and in the preparation of reports.

816. **PSYCHOLOGY SEMINAR.** 2-24 hours. Prerequisite: Undergraduate major in psychology or equivalent. *The Staff.*

The seminars are planned around the interest and needs of the student. There are seminars in Learning Theory; Motivation; Emotion; Complex Human Learning; Sensation; Perception; Psychopharmacology; Methods and Techniques of Animal Research; Physiological Processes of Behavior; Comparative Psychology; Conditioning; Industrial and Human Engineering; Testing and Measurement; Clinical Psychology; and Advanced Social Psychology.

861. **PSYCHOPHYSICAL METHODS.** 2 hours. Prerequisites: Psychology 200 and 322. *Mr. Hodge.*

A detailed study of the methods appropriate to investigation of the sensory and perceptual processes.

863. **EXPERIMENTAL DESIGN.** 3 hours. Prerequisites: Psychology 200 and 322. *Mr. Hodge.*

Problems encountered in the planning of psychological experiments. A detailed consideration of the nature of scientific psychology, the logic of psychological measurement, and general experimental methodologies.

864. **PSYCHOLOGICAL SCALING METHODS.** 2 hours. Prerequisite: Psychology 861. *Mr. Hodge.*

An extension of the logic of psychophysical measurement to non-sensory situations. The scaling of single and multi-dimensional objects such as attitudes and preferences are examined.

892. **(HOME ECONOMICS) BEHAVIOR PROBLEMS IN CHILDREN.** Prerequisite: Psychology 490, Home Economics 490, or Education 452. *Miss Young and Miss Sheerer.*

The child's adjustment to his environment, with a consideration of the causes, treatment, and prevention of behavior problems. Utilization of case materials. Research problems in the field will be carried out by the student.

900. **SPECIAL PROBLEMS.** 3-10 hours. Prerequisite: Graduate standing in psychology. *The Staff.*

920. **CLINICAL INTERNSHIP IN PSYCHOLOGY.** 5 hours. Prerequisite: 1 year graduate work in Clinical Psychology. *Dr. Wildman.*

Students will engage in the professional practice of Clinical Psychology under constant and close supervision. This professional work will include full responsibility for treatment of patients, group and individual psychotherapy, teaching, and research.

930. **THESIS IN PSYCHOLOGY.** 5 to 50 hours. *The Graduate Staff.*

## GRADUATE WORK IN PSYCHOLOGY

Graduate work in psychology leading to the Ph.D. degree is offered in general-experimental, clinical and educational psychology. The M.S. program in general psychology is offered as preparation for doctoral work and for students who wish a terminal degree. In addition to the graduate courses, facilities for graduate training in psychology include: a psychological clinic devoted to diagnostic and therapeutic services, a guidance center providing counseling and testing services, an animal research laboratory extensively equipped with electronic devices and other apparatus, a bioelectronic computer laboratory for psycho-physiological studies, and a digital computer in the University Computer Center. Extensive training in statistical methods is available in the Institute of Statistics. Other research opportunities are offered in the Social Science Research Institute.

With some exceptions, applicants for graduate study in psychology are accepted to begin only for the Fall Quarter. Completed application forms must be received by April 1. Prospective students who desire financial aid should file an application with the Graduate School by February 15.

## RUSSIAN

(See Modern Foreign Language)

## SOCIAL SCIENCE (SOS)

(Peabody Hall, North Campus)

Given under the general direction of the Chairman of the Division of Social Science.

### 104. CONTEMPORARY GEORGIA. *The Staff.*

A discussion and analysis of certain aspects of Georgia's population, its characteristics and trends; its relative standing in various statistical measure 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 (SOC) AND ANTHROPOLOGY (ANT)

(Peabody Hall, North Campus)

Head: Bates. Staff: Bailey, Belcher, Clune, Dean, Kelley, Kelly, Miller, Nix, Payne, Robinson, South.

Majors in Sociology must have the following courses in addition to Sociology 105 (or H-106/206) unless specifically exempted by the Head of the Department: Anthropology 102, Sociology 420, 422 and 490.

### 105. INTRODUCTORY SOCIOLOGY. *The Staff.*

An introduction to the sociological analysis of society, its origins, structure, change and problems. Emphasis is on the nature of culture, social interaction, social groups and social institutions.

H-106 (206). INTRODUCTORY SOCIOLOGY. (HONORS). (Not open to students who have credit for Sociology 105). *Mr. Payne.*

A general introduction to the fundamental concepts, theories, methods, and major sub-fields of sociology. Among other purposes will be that of showing the relationships of sociology to other fields of study.

Note: All 400 and 500 courses have as a prerequisite Sociology 105 or the consent of the instructor.

## SPECIAL FIELDS IN SOCIOLOGY

### 360. CONTEMPORARY SOCIAL PROBLEMS. *Mr. South and Miss Dean.*

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.

### 380. INDUSTRIAL SOCIOLOGY. *Mr. Bates, Mr. Payne and Mr. South.*

A study of human relations in the industrial setting and the relationship of growing, operating or declining industrialization to the community and the larger society.

### 409. SOCIAL CHANGE. *Mr. Bailey and Mr. Nix.*

The nature and theories of social change; causes and types of social change; the cultural lag theory; the social effects of inventions in the modern world; the adjustments of contemporary social institutions to technological change; and some discussion of the impact of future technology on society.

### 411. SOCIAL ORGANIZATION. *The Staff.*

Concepts and indices of personal, family, and community organization—an analysis of pathological social behavior—crime, mobility, unemployment, social misfits, family tension, divorces, ecological aspects of organization, etc. Emphasizes the basic principles of social organization.

### 427. PERSONALITY AND SOCIAL ADJUSTMENT. *Mr. Kelley and Mr. Payne.*

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. Belcher and Mr. Payne.*

The fundamental differences between rural and urban societies and the interrelationship between these two large groups of people. How personalities grow 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.

### 433. POPULATION THEORY AND PROBLEMS. *Mr. Belcher.*

Theory and dynamics of population growth; population measure; migration; composition; differential fertility; theories of the quality and optimum population; economic and social aspects of our population.

### 435. COMMUNITY ORGANIZATION. *Mr. Payne, Mr. Bailey and Mr. Nix.*

A study of the community as a unit of social organization; contemporary trends in contemporary organization and planning.

443. SOCIAL MOBILITY. *Mr. Kelley.*

The nature of social status systems, including the means by which people obtain and change their positions in the systems. Topics include: criteria of status evaluation; social classes and castes; differential life-chances; mobility ladders and achievement aspirations.

461. (HOME ECONOMICS) THE FAMILY. *The Staff.*

Family study from many different angles, utilizing data from the fields of anthropology, individual and social psychology, history, sociology, economics and psychiatry.

471. PHILOSOPHY OF SOCIAL SCIENCES. (Philosophy 471). *Mr. Robinson.*

A study of the methods and problems of inductive reasoning, including the nature of probable inference, techniques of verification, and the structure of scientific explanation, with special reference to the Social Sciences.

481. CRIMINOLOGY. *Mr. Payne.*

The study of criminal behavior and its treatment. The development of criminal behavior in contemporary society and the efforts of the individual to adjust to the demands made upon him. The treatment of the offender by means of probation, imprisonment, and parole.

490. SENIOR SEMINAR IN SOCIOLOGY. (Open to undergraduates only). Prerequisites: Senior standing and 15 hours in senior college Sociology and Anthropology courses. Required of all majors in Sociology, unless specifically exempted by the head of the department. *The Staff.*

A program of semi-independent study including reading, writing, and discussions, treating current literature and developments in the field of sociology; designed to assist the senior in integrating his sociological background and using it creatively.

## SOCIAL THEORY AND RESEARCH METHODS

## H-300. (POLITICAL SCIENCE). SOCIAL THEORY (HONORS COLLOQUIUM).

A study of some major theories concerning man's political, economic, educational, and religious institutions, emphasizing a cross social science disciplinary approach.

356. QUANTITATIVE METHODS IN SOCIOLOGY. *Mr. Belcher and Mr. Payne.*

An introduction to the scientific method in social research: elementary considerations in research design; the interview, questionnaire, participant observation and human document as sources of social data; qualitative and quantitative techniques of analysis and inference, including the development of techniques for measuring social data.

420. METHODS IN SOCIAL RESEARCH. Required of all majors in Sociology, unless specifically exempted by the Head of the Department. *Mr. Belcher and Mr. Miller.*

An introduction to the scientific method in social research; elementary considerations in research design; the interview, questionnaire, participant observation and human document as sources of social data; qualitative and quantitative techniques of analysis and inference, including the development of techniques for measuring social data.

421. EARLY SOCIAL THOUGHT. *Mr. Kelley.*

A survey of social thought from Hammurabi to Comte. This course affords an introduction to social thought prior to the emergence of the modern social sciences.

422. DEVELOPMENT OF SOCIOLOGICAL THEORY. *The Staff.*

A survey of some of the most important systems in the development of sociological theory. Required of all majors in sociology unless specifically exempted by the head of the department.

426. AMERICAN SOCIOLOGY. *Mr. Robinson.*

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.

456. TECHNIQUES OF POPULATION ANALYSIS. *Mr. Belcher.*

Techniques for analyzing the composition of the population; constructing life tables; measuring vital processes; and estimating population and migration.

## SOCIAL WORK

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.

470. INTRODUCTION TO PUBLIC WELFARE ADMINISTRATION. *Miss Dean.*

Historical development of public welfare services and their administration. Reference is made to the underlying problems with which present day public welfare departments deal; special attention is paid to administration at local, state, and federal levels.

552. PRINCIPLES AND METHODS OF SOCIAL CASEWORK. *Miss Dean.*

Methods, objectives, competencies, limitations of social casework in its varied settings. Cases studied include school, psychiatric, correctional, child welfare, family, and medical problems.

## GRADUATE COURSES IN SOCIOLOGY

800. SPECIAL TOPICS IN SOCIOLOGY. Prerequisite: Undergraduate major in sociology. *The Staff.*

Opportunity to do intensive study, on an individual basis, in the field of the graduate student's major interest. Required of graduate students in sociology.

805. ADVANCED SOCIOLOGICAL ANALYSIS. Prerequisites: Sociology 622 and graduate standing. *Mr. Belcher.*

Concerned with how substantive sociological theory is being developed, clarified, and expanded. Specific attention will be devoted each year to selected areas of sociological interest such as communication, social structure or social change, the choices varying with the interests of the participants. Required of graduate students in Sociology.

808. ADVANCED PRINCIPLES OF SOCIOLOGY. Prerequisite: Ten hours of courses in sociology numbered over 400. *The Staff.*

A critical examination of the conceptual framework of sociology.

830. SURVEY RESEARCH METHODS IN SOCIAL SCIENCE. Two lectures and one three hour laboratory period per week. Prerequisite: Undergraduate major in a social science. *The Staff.*

Objectives, techniques and uses of the sample survey in social research as exemplified in public opinion studies, attitude and informative surveys, and the evaluation of institutional and community programs. Required of graduate students in sociology.

840. SEMINAR IN SOCIOLOGY AND ANTHROPOLOGY. Non-credit. Prerequisite: Undergraduate major in sociology or anthropology, or in another social science plus ten hours of courses in sociology or anthropology numbered over 400. *The Staff.*

Bi-weekly meetings throughout the academic year devoted to discussions of current literature in sociology and anthropology. Required of graduate students in sociology while in residence.

930. THESIS IN SOCIOLOGY. 5 to 50 hours. *The Staff.*

## SOCIAL ANTHROPOLOGY

102. MAN AND HIS CULTURE. *Mr. Bailey, Mr. Clune and 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.

H-112 (212). MAN AND HIS CULTURE (HONORS). (Not open to students who have credit for Anthropology 102). *Mr. Bailey and Mr. Kelly.*

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

310. INTRODUCTORY ETHNOLOGY. Prerequisite: Anthropology 102 or introductory course in another social science. *Mr. Clune and Mr. Kelly.*

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.

344. LATIN-AMERICA: PEOPLES AND INSTITUTIONS. *Mr. Clarke.*

The study of contemporary Latin-America peoples and institutions in their community setting; special attention is devoted both to the original impact of Western civilization on the indigenous Indian communities of Central and South America, and to recent social changes incident to the introduction of modern agricultural and industrial technology.

400. (ECONOMICS) EARLY ECONOMIC SYSTEMS. Prerequisites: Anthropology 102 and Economics 105. *Mr. Clune and Mr. Kelly.*

The economic life of primitive peoples. Concepts and principles of classical economics, developed in Western civilization, are studied in the light of practices and thought among primitive groups in Asia, Africa, and the South Pacific.

402. THE AMERICAN INDIAN. *Mr. Clune.*

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

405. CULTURAL ANTHROPOLOGY. *Mr. Bailey.*

Concepts and methods for analysis of the institutions of nonliterate peoples and their comparison with modern societies.

445. AFRICA: PEOPLES AND INSTITUTES. *Mr. Bailey.*

The study of peoples and institutions of Africa, south of the Sahara, starting with earliest evidences of indigenous peoples; special emphasis will be placed on changes currently taking place.

## ARCHAEOLOGY AND PHYSICAL ANTHROPOLOGY

203. HUMAN ORIGINS. *Mr. Kelly.*

A study of the fossil history of mankind—Pleistocene to recent geological periods. The students will gain some familiarity with the main craniometric and anthropometric techniques used in racial studies.



**204. THE RACES OF MAN.** Prerequisite: Anthropology 203. *Mr. Kelly.*

A study of the development of modern man into races through the sub-species specialization of *Homo Sapiens* in the late Pleistocene and Holocene geological times. Human racial hybridism will receive considerable attention in critical world areas where new blended types of man have developed.

**211. NORTH AMERICAN ARCHAEOLOGY.** Prerequisite: Anthropology 102. *Mr. Kelly.*

An introductory course in the archaeology of North America. Will survey the total range of North American prehistory from 10,000 B. C. to the 17th century A. D., tracing development in each of the major culture areas from the early hunting gathering stage to the cultural peaks just before intensive white contact. Special emphasis will be placed on the mechanics of cultural change as discernible by the methods of prehistory.

**301. OLD WORLD ARCHAEOLOGY.** Prerequisite: Anthropology 203 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.

**401. ARCHAEOLOGY OF THE SOUTHEASTERN UNITED STATES.** Prerequisites: Anthropology 301. *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 211. *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.

**JOINT-LISTED COURSES OF OTHER DEPARTMENTS**

293. FAMILY RELATIONS. (See Home Economics 293).

373. SOCIAL PSYCHOLOGY. (See Psychology 373).

440. SOCIAL PSYCHOLOGY: ATTITUDE MEASUREMENT. (See Psychology 440).

**SPANISH**

(See Modern Foreign Language)

**SPEECH (SPC) AND DRAMA (DRA)**

(Fine Arts Building, North Campus)

Head: Ballew. Staff: Ainsworth, Camp, Freshley, Harris, Hayes, Head, Johnson, Kahan, McCoy.

**GENERAL SPEECH****108. FUNDAMENTALS OF SPEECH.** *The Staff.*

A first course in the fundamental principles of effective oral communication; special attention is given to the selection and organization of materials, the presentation of speeches, and the development of an acceptable speaking voice.

**109. BUSINESS AND PROFESSIONAL SPEECH.** *The Staff.*

Analysis of various speaking situations, particularly oral reports, interviews and conferences. Study of the factors determining group productivity and problem solving.

**110. SPEECH FOR FOREIGN STUDENTS.** *Mrs. Head.*

Special laboratory course for students learning English as a second language. Intensive study and drill in American English pronunciation and listening comprehension. Required course for all foreign students who fail to pass screening examination in oral English.

**209. PHONETICS.** Prerequisite: Speech 108. *Mrs. Head.*

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.

**250. PUBLIC SPEAKING.** Prerequisites: Speech 108 or Speech 109 or consent of instructor. *The Staff.*

A study of the development of speech techniques with emphasis upon the motivations which lead to belief and action. Preparation and presentation of persuasive speeches.

350. ARGUMENTATION AND DEBATE. *Mr. Hayes.*

Principles of logical proof as applied in argumentation and debate. Theory and practice in analysis, investigation, brief-making, refutation, evidence, forms of argument, fallacies, and debate procedures.

486. ORAL INTERPRETATION OF PROSE AND POETRY. Prerequisite: Ten hours senior division courses in English, education or speech-drama. *The Staff.*

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.

487. ORAL INTERPRETATION OF DRAMATIC LITERATURE. Prerequisite: Ten hours senior division courses in English, education or speech-drama. *The Staff.*

A study of the theory, techniques, and principles of interpretation of drama from the points of view of the oral interpreter and actor. Development of oral skills through the study of selected plays and monologues.

412. PHYSIOLOGICAL BASIS OF SPEECH. Prerequisite: Speech 209. *Mr. McCoy.*

A study of the anatomy and physiology of breathing, phonation, resonance, and articulation for speech; a study of the physical phenomena in voice and speech. Advanced practice in transcribing variations of speech into phonetic symbols.

450. CLASSICAL RHETORIC. Prerequisites: Two senior division courses in English, classics or speech-drama. *Mr. Freshley.*

A study of the development of classical rhetoric in the Greek and Roman periods: Plato to Quintillian.

## DRAMA

101. INTRODUCTION TO DRAMA AND THEATRE. Lecture-laboratory course. *Mr. Johnson.*

A general introductory course in the arts of the theatre; designed for freshmen and transfer students. Each student is required to work as assigned on various productions of the University and Laboratory Theatres.

102. ACTING. Lecture-laboratory course. *The Staff.*

The fundamentals of acting techniques, 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.

103. ADVANCED ACTING. Lecture-laboratory course. Prerequisite: Drama 102 or consent of the instructor. *The Staff.*

Continuation of exercises in acting techniques and procedures. Particular emphasis on characterization, line interpretation, and tempo. Each student is required to participate in the production of the Laboratory Theatre.

222. SURVEY OF THEATRE HISTORY. *Mr. Kahan.*

Comprehensive survey and general approach to the history of drama and theatre, providing the basis for the appreciation of drama as a fine art. Lectures, reading of plays, and student reports.

400. PLAYWRITING. Prerequisites: Two senior division courses in English or classics, or journalism or drama. *Mr. Ballew.*

Elementary laboratory course in playwriting, including study and practice in writing for stage.

420. HISTORY OF THE THEATRE. Prerequisites: Two senior division courses in English or classics or drama. *Mr. Kahan.*

The development of the physical theatre and the growth of drama studied from the beginning of dramatic literature of Greece through Shakespeare. Representative dramatists of each period and their important contributions to dramatic literature are included.

421. HISTORY OF THE THEATRE. Prerequisites: Two senior division courses in English or classics or drama. *Mr. Kahan.*

The development of the physical theatre and written drama studied from the Elizabethan period to Ibsen. Representative dramatists of each period and their important contributions to dramatic literature are included.

429. PLAY ANALYSIS. *Mr. Kahan.*

An intensive examination of selected plays and a study of the problems of plot, characterization, and dialogue as they relate to theatre production.

511. THEATRE MANAGEMENT. Prerequisite: Two senior division courses in drama. *Mr. Camp.*

A critical examination of theatre management. A survey of the organization of various non-professional theatres and promotional and managerial procedures.

531. TECHNICAL PROBLEMS. Prerequisites: Two senior division courses in drama. *Mr. Camp.*

Advanced study of the theory and styles of design (lighting, setting, costuming) in the theatre with special emphasis on the techniques of collaboration between director and technical director.

535. SCENE DESIGN. Prerequisites: Two senior courses in art or drama or courses in advanced drafting or drawing. Lecture-laboratory course. *Mr. Camp.*

The principles and techniques of scene design and scene painting. Development of floor plans, sketches and scaled models. Suggested elective for majors in the visual arts.

536. STAGE LIGHTING. Lecture-laboratory course. *Mr. Camp.*

Study of problems of lighting in the theatre; lighting instruments, lighting control; operation of lighting equipment. Practical assignments in the University Theatre and Laboratory

560. PLAY DIRECTING. *Mr. Ballew.*

A survey of the theory and practice of play directing in the modern theatre. It deals with the general philosophy of theatre, analysis of plays for production, play selection, and play casting. Each student makes a director's study of a specific play.

561. PLAY DIRECTING 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 a one-act play during the quarter and submit a detailed director's prompt script of the production.

562. ADVANCED PLAY DIRECTION. Prerequisites: Two senior division courses in drama. *The Staff.*

Lectures, reports, and reading in contemporary drama and theatre, with particular emphasis on contemporary techniques of staging and direction.

801. SEMINAR IN MODERN DRAMA AND THEATRE. Prerequisites: Two senior division courses in drama or dramatic literature. *Mr. Ballew.*

Seminar discussion and reports in contemporary drama: Eugene O'Neill to Edward Albee.

802. SEMINAR IN MODERN DRAMA AND THEATRE. Prerequisites: Two senior division courses in drama or dramatic literature. *Mr. Ballew.*

Seminar discussion and reports in contemporary drama: Henrik Ibsen to Eugene Ionesco.

Drama 900. RESEARCH SEMINAR AND SPECIAL PROBLEMS IN DRAMA. Prerequisites: Two graduate courses in drama or English (dramatic literature). *Mr. Ballew, Mr. Camp or Mr. Kahan.*

Individual directed study and research under faculty supervision on approved research problems in drama and theatre.

Drama 901. RESEARCH SEMINAR AND SPECIAL PROBLEMS IN DRAMA. Prerequisites: Two graduate courses in drama or English (dramatic literature). *Mr. Ballew, Mr. Camp or Mr. Kahan.*

Individual directed study and research under faculty supervision on approved research problems in drama and theatre.

## RADIO AND TELEVISION

544. RADIO AND TELEVISION ACTING. Prerequisite: Two senior division courses in speech, drama or radio-television. *The Staff.*

A theoretical and practical study of television and theatre acting with emphasis on adopting the principles of acting to the television medium.

545. DIRECTING THE RADIO AND TELEVISION DRAMA. Prerequisite: Two senior division courses in speech and drama, or radio-television. *The Staff.*

A theoretical and practical study of television and theatre directing with emphasis on adopting the principles of theatre directing to the television medium.

546. ADVANCED PROJECTS IN RADIO AND TELEVISION DRAMA. Prerequisite: Two senior division courses in speech, drama or radio-television. *The Staff.*

A detailed study of the nature of television and the nature of theatre involving the direction of scenes for television production and the direction of a 30 minute dramatic production.

582. (JOURNALISM) RADIO-TELEVISION PROGRAMMING. Prerequisite: Journalism 580.

A study of programming with special emphasis on public service and the social aspects of radio and television. An examination of Peabody entries and winners.

583. (JOURNALISM) RADIO-TELEVISION PERFORMANCE. Prerequisite: Journalism 580.

A laboratory course wherein the student gets actual experience, under faculty supervision, in various aspects of broadcasting and telecasting. On-the-job experience will be supplemented by seminars and regular conferences with instructors.

585. (JOURNALISM) TELEVISION.

An introductory course concerned with the history, problems, and techniques of television. Theoretical instruction is supplemented by laboratory observation and work in nearby television stations.

## SPEECH-DRAMA EDUCATION

530. PLAY PRODUCTION FOR THE HIGH SCHOOL TEACHER. Prerequisites: Two senior division courses in English, speech-drama or secondary education. *Mr. Camp.*

Techniques and methods for meeting problems of play selection and play production in the secondary school. Suggested elective for teachers of English in High Schools.

591. TEACHING OF SPEECH AND DRAMA. Prerequisites: Two senior division courses in speech or drama or secondary education. *The Staff.*

Philosophy, methods, and problems of teaching speech and drama in elementary and secondary schools. Emphasizes the analysis of speech needs of children and techniques in implementing speech and drama activities for general speech improvement.

592. CREATIVE DRAMATICS FOR CHILDREN. Prerequisites: Two senior division courses in speech or drama or elementary education. *The Staff.*

A thorough study of theories, principles, and techniques in original dramatization for children. Preparation for students who wish to do creative work in drama with children.

593. SPEECH FOR THE ELEMENTARY SCHOOL. Prerequisites: Two senior division courses in speech and drama and/or elementary education. *Mrs. Head.*

A study of the various activities for elementary school children.

### SPEECH CORRECTION

310. SURVEY OF SPEECH PROBLEMS. *The Staff.*

The introductory course for those majoring in speech correction. Acts as a course for the classroom teacher who wishes to become informed about speech problems and as a course for students majoring in Speech-Drama. A study of the major etiology, and basic therapy for all types of speech defects, with a concentration on those most commonly found in the classroom.

470. DIAGNOSIS IN SPEECH CORRECTION. Prerequisites: Speech 310 and Speech 412. *Mr. McCoy.*

The theory, administration, and interpretation of tests and diagnostic procedures used in determining the nature, etiology of and therapy for speech defects. In addition to various methods for analyzing speech, attention is given to non-audiometric evaluations of hearing; examination of speech mechanism, special abilities related to speech, and to an understanding of how results of psychological tests are related to speech problems.

471. INTRODUCTION TO EVALUATION OF HEARING LOSS. Prerequisite: Speech 412. *Mr. McCoy.*

The anatomy and basic psychophysics of hearing, the pathologies causing hearing loss, and basic theory of hearing evaluations. A survey of educational, psychological and medical rehabilitation for persons with a loss. Practice in pure tone audiometry.

474. (EDUCATION) VOICE AND ARTICULATORY DISORDERS OF SPEECH. Prerequisite: Speech 470 or consent of instructor. *Mr. McCoy.*

A study of etiology and the rationale and methods of therapy for functional and organic disorders of voice and articulation. The development of a therapeutic program and lesson plans. Supervised clinical practice in voice and articulation disorders with individuals and groups.

476. (EDUCATION) STUTTERING: ETIOLOGY AND THERAPY. Prerequisite: Speech 470. *Mr. Ainsworth.*

A study of the major theories of causation of stuttering, whether based on neuro-physiological, emotional, or learning factors. The development of an integrated therapy based on modern research in stuttering. Supervised clinical practice in individual and group therapy for stutterers.

535. (EDUCATION) DIRECTED INDIVIDUAL STUDY IN SPEECH CORRECTION. Prerequisites: Four courses in correction or consent of instructor. *Mr. McCoy.*

This course is designed to permit adaptation of the Speech Correction curriculum to the individual needs of mature students. A detailed outline of requirements must be prepared in conference by the student and instructor and approved by the Chairman of the Speech Correction Area, DEEC, and the Head of the Department of Speech and Drama.

536. (EDUCATION) DIRECTED INDIVIDUAL STUDY IN SPEECH CORRECTION. Prerequisites: Four courses in speech correction or consent of instructor. *The Staff.*

Outline of work must be approved in the same manner as for Speech or (Education) 535, but content must be different.

537. (EDUCATION) SEMINAR IN SPEECH PATHOLOGY. Prerequisites: Six courses in speech correction or four courses and the consent of the instructor. *Mr. Ainsworth.*

Intensive and thorough exploration of the research and theory in one or more areas of speech pathology. Specific content in any one quarter will be adapted to the particular needs of the students. Group projects may be carried in addition to readings and lectures.

835. (EDUCATION) ORGANIC DISORDERS OF SPEECH. Prerequisites: Six courses in Speech Correction. *Mr. Ainsworth.*

A detailed study of pathologies affecting speech, the speech test and therapy for cases of cleft palate, cerebral palsy, aphasia, laryngectomy, and retarded speech. Develops an understanding of the role of speech pathologist in the medical-psychological-educational speech therapist team for the rehabilitation of physically and emotionally handicapped individuals.

836. (PSYCHOLOGY) ANATOMY AND PSYCHOPHYSICS FOR SPEECH CORRECTION. Prerequisites: Six courses in speech correction or four graduate courses in psychology. *Mr. Ainsworth.*

An intensive study of the anatomy and physiology of speech and hearing and the psychophysics of hearing. Laboratory with models, charts, and specimens.

## ZOOLOGY\* (ZOO)

(Biological Science Building, Science Center)

Head: McGhee. Staff: Boyd, Byrd, Cleveland, Cosgrove, Golly, Hinton, Kent, Kerr, Lindsay, Nuttycombe, Odum, Pomeroy, Provost, Reid, Scott, Thomas, Wiegert.

No student will be allowed to take a senior division course in zoology unless he has a minimum grade of C or above in all prerequisite courses.

Students may, with the permission of the Head of the Department, credit the following courses toward a major in Zoology: Entomology 300 and 376 or Bacteriology 350.

101-102. HUMAN BIOLOGY. 10 hours. Five lecture-demonstration periods.

*The Staff.*

The aim of this course is to give the student some acquaintance with biological principles and their application to the human organism.

H-123 (223). PRINCIPLES OF ZOOLOGY (HONORS). Three lectures and two double laboratory periods. *Mr. Cosgrove and Mr. Odum.*

For Honors Students, this course replaces either Zoology 101 and 102 or Zoology 124.

124. PRINCIPLES OF ZOOLOGY. Three lectures and two double laboratory periods. Prerequisite: Chemistry 121 recommended. Not open to students having credit for Zoology 101-102. *Mr. Cosgrove and Mr. Pomeroy.*

A consideration of biological phenomena at the cellular level.

225. INVERTEBRATE ZOOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 124 or two other courses in biology. *Mr. Nuttycombe, Mr. Pomeroy and Miss Thomas.*

A survey of the invertebrate animals, their biology, structure, and relations to other animals.

226. VERTEBRATE ZOOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 124 or two other courses in biology. *Mr. Kerr.*

A study of the structure, body functions, interrelations, and natural history of the vertebrate animals.

312. HUMAN ANATOMY. Three lectures and two double laboratory periods. Prerequisites: Zoology 101-102 and a major in Physical Education or Nursing. *Mr. Kent.*

Systematic study of human anatomy.

313. HUMAN PHYSIOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 101-102, Chemistry 121-122 and a major in Physical Education, Education, or Nursing. *Mr. Kent.*

Systematic study of the physiology of the human body.

350. NATURAL HISTORY OF VERTEBRATES. Three lectures and two double laboratory periods. Prerequisite: Zoology 226. *Mr. Provost.*

An introduction to local vertebrate fauna with emphasis on behavior, life history, ecology and systematics.

353. ECOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 226 or equivalent in another biological science. *Mr. Odum.*

A survey of basic principles of ecology and their application to the welfare of man, coordinated with a study of populations and communities in the field.

355. EMBRYOLOGY. Two lectures and three double laboratory periods. Prerequisites: Zoology 226 or equivalent in another biological science. *Mr. Lindsay.*

An elementary course in embryology in which the chick is used to illustrate the basic principles of developmental anatomy.

\*Students may be held responsible for breakage in laboratory courses.

356. COMPARATIVE ANATOMY OF THE VERTEBRATES. Two lectures and two triple laboratory periods. Prerequisite: Zoology 226. *Mr. Scott.*

The evolution of vertebrate organ systems.

357. ANIMAL HISTOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 225 and 226. *Mr. Byrd.*

A study of the tissues and their organization into organs and organ systems in animals.

361. HISTOLOGICAL TECHNIQUE. Five double laboratory periods. Open to majors in zoology only. *Mr. Byrd.*

A course offering training in the preparation of histological material, including practice in fixing, sectioning, staining, and mounting.

370. GENETICS. Three lectures and two double laboratory periods. Prerequisites: Botany 122 or Zoology 226. *Mr. Hinton.*

An introduction to the principles of biological inheritance.

372. PARASITOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 225 and 226. *Mr. Byrd.*

A comparative study of internal parasites of man and the lower animals.

381. ORNITHOLOGY. Two lectures and three double laboratory periods. Prerequisite: Zoology 226. *Mr. Odum.*

An introduction to the study of birds, emphasizing the identification, classification, life histories, and economic importance of Georgia species.

390. GENERAL PHYSIOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 124 and Chemistry 340 (Physics 229 recommended). *Mr. Cosgrove and Mr. Kent.*

An introduction to general physiological processes with laboratory emphasis on techniques.

401. ADVANCED GENETICS. Three lectures and two double laboratory periods. Prerequisites: Zoology 370 and one other senior division course in biology. *Mr. Hinton.*

The experimental bases of modern genetic theory with emphasis on chromosome mechanics, mutations and gene action.

402. PROTOZOOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two senior division courses in zoology. *Mr. McGhee.*

A study of the phylum Protozoa with emphasis on the morphology, taxonomy, life history of the parasitic forms and with consideration of the origins, ecology and genetics of free-living and parasitic organisms.

403. MAMMALOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two senior division courses in zoology. *Mr. Provost.*

A study of the taxonomy, distribution, ecology, and evolution of mammals with special emphasis on land mammals of the Southeast.

404. HERPETOLOGY. Three lectures and two double laboratory periods. Prerequisites: Two senior division courses in zoology. *The Staff.*

An introduction to the taxonomy, distribution, ecology, behavior, and evolution of amphibians and reptiles, with special emphasis on those of the Southeast.

405. ICHTHYOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 356 and one other senior division course in zoology. *Mr. Scott.* (Offered in alternate years. Offered in 1963-64.)

A study of the taxonomy, distribution, ecology, and evolution of fishes with special reference to the marine and freshwater fishes of eastern North America.

422. COMPARATIVE PHYSIOLOGY (METABOLIC SYSTEMS). Three lectures and two double laboratory periods. Prerequisite: Two senior division courses in zoology, or Zoology 390. *Mr. Cosgrove.*

Physiology of nutrition, respiration and metabolism, circulation and excretion in animals.

429. ENDOCRINOLOGY. Three lectures and two double laboratory periods. *Mr. Kent.* Prerequisites: Zoology 390 and one other senior division course in Zoology. (Offered alternate years. Offered in 1964-65.)

Physiology of the endocrine glands, their control of metabolism and reproductive cycles.

454. LIMNOLOGY AND OCEANOGRAPHY. Three lectures and two double laboratory periods. Prerequisites: Two appropriate senior division courses, plus a working knowledge of elementary physics, chemistry, and algebra. *Mr. Pomeroy and Mr. Scott.*

The physics, chemistry, and biology of lakes, streams and oceans.

456. MARINE BIOLOGY. Three lectures and two double laboratory periods. Prerequisite: Zoology 454. *Mr. Pomeroy.*

Populations of the oceans, their interactions and relations to the environment.

457. FRESH WATER BIOLOGY. Two lectures and three double laboratory periods. Prerequisite: Zoology 454. *Mr. Scott.*

Study of freshwater organisms, their identification, natural history and environmental relationships.

801. PARASITIC PROTOZOA. Prerequisite: Consent of the instructor. *Mr. McGhee*.

Experimental study of morphology, life histories, classification, and parasitic relationships of protozoan parasites of man and the lower animals.

803. HELMINTHOLOGY. Prerequisite: Consent of the instructor. *Mr. Byrd*.  
A study of the morphology, life histories, classification, and parasitic relationships of the helminths.

807. ADVANCED INVERTEBRATE ZOOLOGY. Three lectures and two triple laboratory periods. Prerequisite: Consent of the instructor. *Miss Thomas*.  
Deals with the morphology, phylogeny and general biology of the acoelomate and pseudo-coelomate phyla.

808. ADVANCED INVERTEBRATE ZOOLOGY. Three lectures and two triple laboratory periods. Prerequisite: Zoology 807 or consent of the instructor. *Miss Thomas*.

Deals with the morphology, phylogeny and general biology of the coelomate phyla.

810. EVOLUTION. Five lectures. Prerequisites: Courses in genetics and three other courses in zoology numbered above 300. *The Staff*.

A consideration of the meaning of evolution, the history of evolutionary thought, the origin of life, the mode of origin of hereditary variation, the origin of species, and the main lines of evolution.

819. PHYSIOLOGY SEMINAR. Credit 1 hour per quarter, maximum credit allowable, 6 hours. Prerequisite: Consent of the instructor. *Mr. Cosgrove and Mr. Kent*.

Weekly meetings reviewing recent research literature in physiology.

820. CELLULAR PHYSIOLOGY. Three lectures and two double laboratory periods. Prerequisites: Zoology 390 and physical chemistry or consent of instructor. *Mr. Cosgrove*. (Offered alternate years. Offered in 1963-64).

A study, at the cellular level, of the nature and mechanisms of the fundamental physiological processes.

826. COMPARATIVE PHYSIOLOGY (BEHAVIORAL SYSTEMS). Three lectures and two double laboratory periods. Prerequisite: Zoology 390. *Mr. Cosgrove*. (Offered alternate years. Offered in 1964-65).

Properties and functions of nervous systems, receptors and muscles.

827. VERTEBRATE PHYSIOLOGY. Three lectures and two double laboratory periods. Prerequisite: Zoology 390. *Mr. Kent*. (Offered alternate years. Offered in 1963-64.)

A detailed consideration of the special physiology of vertebrates.

829. ADVANCED ENDOCRINOLOGY. Two lectures and three double laboratory periods. Prerequisite: Zoology 429. *Mr. Kent*. (Offered alternate years. Offered in 1964-65).

Analytical techniques applied to endocrinology through assigned projects.

830. SEMINAR IN PARASITOLOGY. Credit 1 hour per quarter. Maximum credit allowable, 6 hours. Prerequisite: Consent of instructor. *Mr. Byrd and Mr. McGhee*.

Weekly meetings for full year devoted to discussions of parasitological subjects.

854. PHYSIOLOGICAL ECOLOGY. Prerequisite: Consent of the instructor. *Mr. Odum*. (Offered alternate years. Offered in 1963-64).

A study of the physiological basis for animal behavior, with emphasis on the major physical factors of the environment as they affect the organism as a whole.

855. ADVANCED ECOLOGY. Prerequisite: Consent of the instructor. *Mr. Odum*. (Offered alternate years. Offered in 1964-65.)

An advanced course in ecological principles with emphasis on population ecology.

856: ECOLOGY SEMINAR. Credit 1 hour per quarter; maximum credit allowable, 6 hours. Prerequisite: Consent of the instructor. *Mr. Odum, assisted by The Staff*.

Biweekly evening meetings covering recent advances in ecology and emphasizing the integration of current ideas and data from plant, animal and microbial research.

870. GENETICS SEMINAR. Credit 1 hour per quarter; maximum credit allowable, 6 hours. Prerequisite: Consent of the instructor. *Mr. Hinton*.

Weekly meetings reviewing recent research literature in genetics.

890. SEMINAR IN VERTEBRATE ZOOLOGY. Credit 1 hour per quarter; Maximum credit allowable, 6 hours. Prerequisite: Consent of the instructor.

A review of recent literature dealing with behavior, zoogeography, systematics and evolution.

900. PROBLEMS IN ZOOLOGY.

This course allows students to work intensively on problems in an approved field of zoology.

# THE SCHOOL OF LAW

JOHN ALTON HOSCH, B.S.C., M.A., LL.B., LL.D., *Dean*

## 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. He later became the first Dean of the School 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 and the Georgia Bar Association have 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 three 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. 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.

In general, the School operates under the case method of instruction as best designed to enable students to master the common law and equity as working systems. The student studies actual cases, deducing from them the principles of law involved, and this approach tends to develop in the student the power of analysis of legal problems. In addition, however, the study of cases is supplemented by statutory and textual materials. This method of instruction accords with that followed by the leading law schools of the country.

Instruction is given in the drafting of legal instruments by requiring the students 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 under conditions made as nearly as possible like those prevailing in the courts of the State. 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.

## PRE-LEGAL CLUB

A pre-legal club, composed of students in the various schools and colleges of the University, and under the supervision of a member of the law faculty, seeks to acquaint students interested in the study of law with the work and environment of the Law School. Suggested undergraduate work that should prove of definite value in preparation for law study is brought to the attention of the students. The club elects its own officers, holds periodic meetings, and participates to some extent in the activities of the School. Through the club, faculty and students in the Law School meet the prospective students of the future, and in some measure assist these in preparation for entry into a professional school.

## 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

Any member of the second year or third year class is eligible for junior membership in the Georgia 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 become acquainted with the leaders 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 three 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. In addition to the library offices, the Library has a stack room with a capacity of 50,000 volumes, a typing room for the convenience of students, and a commodious air-conditioned reading room.

Provisions have been made for the construction of an addition to the present Law building that will provide expanded facilities for the Law School and Institute of Law and Government. Construction of this substantial addition will begin early in 1964.

The Institute of Law and Government occupies the building on the North adjacent to the Main Law Building. It contains several offices, library, seminar and conference rooms, and other facilities.

In the small structure behind the Institute of Law and Government is the office of the Student Editorial Board of the Georgia Bar Journal. Here also is a memorial room resembling a Georgia law office of a century ago with interesting and valuable furniture and other objects belonging to distinguished jurists and alumni of the School.

The Library of the School of Law now contains approximately 50,000 well selected volumes to which approximately 1,500 volumes are added annually. The book collection includes the reports of all cases decided by the

appellate courts of the United States as well as a large collection of reported cases from the leading common-law jurisdictions of the British Commonwealth. The collection of statutory law includes the codes, or general statutes, of each of the states and territories. In addition there is a rapidly increasing file of leading law reviews in the English language and a comprehensive collection of up-to-date treatises on all phases of the law.

The library receives a substantial appropriation every year for the purpose of continuously expanding the book collection which is further augmented by the gifts of friends and alumni of the School of Law.

The facilities of the General University Library are also available to the students of the School of Law.

### DORMITORY

The Law and Graduate Students Dormitory, a modern three-story brick building completed in 1958, houses one hundred and fifty students. The bedrooms will accommodate two students and are furnished with beds, desks and chairs, a lavatory and cabinet. On each floor is a study room with table and chairs. There are bathrooms, water fountains, laundry chutes and other facilities on the three floors. A library and lounge on the first floor has a complete set of Georgia Appellate Reports, the Code, and a number of law treatises. Charges are \$80 per quarter, which includes a limited amount of flat-work laundry. Distinct advantages are gained by law students living and working together in the Law and Graduate Students Dormitory.

### INSTITUTE OF LAW AND GOVERNMENT

The Georgia Institute of Law and Government was established in 1953 and operates as an integral part of the School of Law. A reorganization in 1957 expanded the program of the Institute and made it the University agency primarily responsible for research, training, and service activities in the fields of law, government, and public administration. In this reorganization the Institute assumed the functions formerly performed by the University's Bureau of Public Administration.

The Institute enables the lawyer, the legal scholar, the public official, and those who are skilled in related fields to study specifically some of the things the law seeks to accomplish and, upon the basis of review of available materials and the application of legal thought and techniques to formulate the groundwork for legislation reasonably calculated to accomplish desired ends. Cooperation with the courts, the Georgia Bar Association, the Judicial Council, and other governmental agencies and groups in the State interested in improving the administration of justice and public administration in general, makes the work of the Institute, through its study of law in action, an effective complement to the theoretical studies carried on in the School.

Through its research program, the Institute produces a constant flow of publications on law, government, and public administration. This program involves basic as well as applied research in these fields. In cooperation with the Georgia Center for Continuing Education and other schools and colleges, the Institute conducts an extensive program of conferences, institutes, and short courses for lawyers, governmental officials, and public employees. The service program of the Institute embraces a wide range of technical and consultative assistance to members of the Bar, public officials, governmental agencies, and civic groups of the State.

## ADMISSION OF STUDENTS

### ENTRANCE REQUIREMENTS

An applicant for admission to the School of Law as a candidate for the degree of Bachelor of Laws must be of good character and present satisfactory evidence of that fact. He must also present satisfactory evidence that he is a graduate of a college of approved standing or that he has completed three years of acceptable regular residence work at such a college constituting not less than three-fourths of the bachelor's degree granted on the basis of a four year period of study. "ACCEPTABLE COLLEGE WORK" connotes more than satisfaction of minimum academic requirements; it represents, rather, substantial scholastic attainment. Moreover, suitability of an applicant for admission should be gauged not only by his undergraduate academic record, but also by the nature of his training and experience and by his demonstrated aptitude for the study of law. Ordinarily a student who is admitted to Law School after three years of academic work, including applicants under a combined degree program, must have an above average academic record and a satisfactory score in the Law School Admission Test.

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; mathematics (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.

All applicants must take the Law School Admission Test, administered by Educational Testing Service of Princeton, New Jersey, and submit results to the Director of Admissions. Application blanks for this Test may be secured from The University of Georgia Guidance Center or from the Educational Testing Service, Princeton, New Jersey. The application blank includes all instructions and information the applicant will need, including sample test questions. Additional information concerning the Law School Admission Test may be obtained from The University Guidance Center, The University of Georgia, Athens, Georgia.

The School of Law admits both men and women students as candidates for 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

Application for admission forms will be provided by the University Director of Admissions on request. Completion of all application forms and of all requirements contained therein is mandatory on each applicant before his request for admission can be considered. No application form will be considered unless received at least twenty days prior to the registration date. The University reserves the right to terminate acceptance of application forms when enrollment limits are reached.

Every applicant for admission to the School of Law must present to the University Director of Admissions a complete transcript of his college work, together with two small photographs of the applicant. The matter of registration will be simplified if this transcript is sent to the University Director of Admissions well in advance of the opening of the session which the applicant expects to attend. The transcript may be procured from the registrar of the college or university at which the student's pre-legal work was done.

The Law School Admission Test must be completed as indicated above.

### COMBINED COURSES

A student who has completed three years of required 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 Business Administration or Bachelor of Arts in Journalism. However, this first degree will be granted only upon satisfactory completion of 185 quarter hours (189 quarter hours for the degree of Bachelor of Business Administration), exclusive of Physical Education and basic 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.

### 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. The following courses in the work of the second and third years are required: Constitutional Law, Equity, Evidence, Georgia Practice and Procedure, Legal Ethics, Practice Court, Property II, Trial Tactics and Methods.

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. A student may not register for less than twelve quarter hours or for more than sixteen quarter hours without permission of the Dean. To get credit for a residence quarter, a student must be registered for a minimum of ten quarter hours and pass a minimum of nine such quarter hours.

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 completes 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 a program leading to the degree of Master of Laws. A prerequisite is a Bachelor of Laws degree from an approved law school, the work done being of such quality as to indicate that advanced 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 must be in the general field of law. The program for the degree provides opportunity for specialization in a chosen field or a broadening of his general knowledge of the law. It is designed to encourage legal scholarship of high quality and is particularly adapted to students interested in careers in teaching law, further study in specialized fields, especially practice in public law, or opportunities for legal work in various branches of government service. Students seeking this degree normally will be required to maintain a scholastic standing considerably higher than was required for graduation with the Bachelor of Laws degree. Programs suited to individual desires and needs may be arranged. Further information can be obtained from the Dean of the School of Law.

**GENERAL INFORMATION.** 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 CODE

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 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.

### STUDENT BAR ASSOCIATION

The Student Bar Association is composed of all students in the Law School. Its function is to bring about a closer relationship between students and the faculty and administration of the Law School. Through elected officers the Association coordinates student activities of all types within the School. The Association is affiliated with the Law Student Association, an organization sponsored by the American Bar Association. Through this connection literature and suggestions on student affairs are made available for helpful interchange of student thought.

### THE UNIVERSITY OF GEORGIA LAW SCHOOL ASSOCIATION

The University of Georgia Law School Association consists of all lawyers who are alumni of The University of Georgia School of Law or of The University of Georgia. Members of the Association are represented by elected officers. The object of the Association is to promote the interest of The University of Georgia School of Law through support of the cause of legal education at the University, to strive for the improvement of the law and the administration of justice in Georgia, and to sustain a permanent affiliation and fellowship among all lawyers who attended The University of Georgia. It has an active and loyal membership and is a source of strength to the Law School.

## 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 only at the beginning of the Fall Quarter.

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 desires to attend lectures in a course, but 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 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). The grade of F cannot be converted into a higher grade by

repeating the course in which the F was received. Any student who repeats a course will have all grades received in that course entered on his permanent record and all such grades will be used in computing his cumulative average.

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.

No re-examinations are given in the School of Law.

### EXCLUSION OF STUDENTS

A student at the end of his first three quarters, or at the end of any quarter thereafter, must have a weighted average grade of the minimum C (70) on all work taken by him since entering the Law School in order to be eligible to continue in the School. Any such student may petition the faculty for readmission. Such readmission, if granted, may not become effective until the opening of the third quarter after such exclusion.

### 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 \$289.50.

Students whose homes are not within the State of Georgia are required to pay each year (three quarters) a matriculation fee of \$634.50.

In the cases of both resident and non-resident students matriculation fees may be paid in quarterly installments.

A student receiving a bachelor's degree from the School is charged a diploma fee of \$10, which includes rental of cap and gown, payable at the time the student makes application for graduation. The student should apply for graduation three quarters prior to the date he expects to complete requirements for the degree.

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 \$100 per year. Second-hand books may be had at less cost.

Charges for housing in the Law and Graduate Students Dormitory, including certain flat work laundry, are approximately \$80 per quarter.

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 funds from which loans can be made to 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.

#### PLACEMENT

The Law School endeavors to assist students in finding legal positions upon graduation. Complete files are maintained on all students in the School and information is made available to interested parties. Through cooperation with the organized alumni, placement committees of the Georgia Bar Association, Circuit Bar Associations, and other groups, as well as through the efforts of individual members of the law faculty, most graduates find satisfactory connections in the practice or in other fields where their legal training is of value.

#### RELIGIOUS ORGANIZATIONS

Students are afforded opportunity to participate in religious activities both on the campus and in the community of Athens. Religious organizations are sponsored by all of the major faiths and denominations, many of them maintaining student religious centers near the campus. The Activities Office works as a coordinating agency with the directors of the student religious centers and assists them with special projects in promoting major religious events for the campus.

#### FRATERNITIES

In the School of Law are chapters of the 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 later 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

**JESSIE AND DAN MACDOUGALD MEMORIAL FUND.** The Dan MacDougald Memorial Fund was created on August 24, 1953, by gifts from friends, associates, and family of Dan MacDougald, first honor graduate of the Law

Class of 1910, to benefit the School of Law and honor Mr. MacDougald's memory. Upon the death of Mrs. Dan MacDougald in 1957, it was decided to honor her also and the name of the Fund was changed accordingly. The Fund is administered by The University of Georgia Foundation and provides for an annual cash award of the net income to the first honor graduate of the School of Law.

**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 *Georgia Court Rules Annotated* including the Cumulative Pocket Part Supplement.

**THE UNIVERSITY OF GEORGIA LAW SCHOOL ASSOCIATION PRIZES.** Prizes in substantial amounts are awarded by The University of Georgia Law School Association in recognition of high scholastic achievement to members of the first, second and third year classes. Prizes are also awarded on the basis of improvement in scholastic standing, to winners of the Moot Court Competition, and to the student submitting the most acceptable legal writing for publication.

**THE LAWYERS' CO-OPERATIVE PUBLISHING COMPANY PRIZES.** The Lawyers' Co-operative Publishing Company offers annually prizes of law books to members of classes making the highest grade.

**NATHAN BURKAN MEMORIAL COMPETITION.** The American Society of Composers, Authors, and Publishers annually offers cash awards of \$150 first prize and \$50 second prize to those students of the graduating class submitting the two best papers 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 \$25 Government Bond to the student writer of the best legal article published during the year. The award is given in honor of Dr. Henry A. Shinn, an esteemed member of the law faculty for many years.

### GEORGIA BAR JOURNAL

The Student Editorial Board is selected 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 and interest. Academic credit is given for work satisfactory to the Faculty Adviser.

### COURSES OF INSTRUCTION

The University reserves the right to withdraw any course or seminar for which the registration is not sufficient and to offer any courses and seminars not here listed should sufficient demand arise and adequate teaching facilities and personnel be available.

## FIRST YEAR

## BUSINESS ORGANIZATIONS I

Three hours

Nature of agency; relation to business associations; creation and termination; scope of employment; express and apparent authority; rights and liabilities of principal and agent and third parties; ratification.

Mr. Field

Seavey and Hall's *Cases on Agency*

## 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

Rosenberg & Weinstein, *Elements of Civil Procedure*

## CONTRACTS I AND CONTRACTS II

Eight 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; parole evidence rule; statute of frauds; performance of contracts; effect of illegality; discharge of contracts.

Mr. Hosh, Mr. Benfield

Williston's *Cases on Contracts* (6th edition).

## CRIMINAL LAW AND PROCEDURE

Five hours

The historical development of criminal law as well as the analysis of the necessary elements of crimes, and the consideration of the principal classes of crimes; criminal procedure, including: jurisdiction and venue, arrest, preliminary examination and bail, indictment and information, arraignment, motions and pleas, trial and review.

Mr. Shannonhouse

Perkins' *Cases and Materials on Criminal Law and Procedure* (2nd edition).

## DOMESTIC RELATIONS

Four hours

Certain important aspects of family law, including contracts to marry, marriage, annulment, separation, and divorce; the relation of husband and wife, and parent and child, with reference to property, support, alimony, and custody.

Mr. Shannonhouse

Jacobs and Goebel's *Cases and other materials on Domestic Relations* (4th edition).

## LEGAL METHOD

Four hours

Basic methods, sources, and literature of Anglo-American case law and legislation. Sources and forms of American laws; analysis and synthesis of judicial precedents; authoritative hierarchy of precedents; interpretation

of statutes and their uses as analogies in case law; problems in the theory of legal reasoning; and the law as a system.

*Mr. Rees*

Dowling, Patterson and Powell's *Cases and Materials on Legal Method* (2nd edition).

#### LEGAL WRITING

Two hours

The emphasis in this course is on development and improvement of skills in legal writing and research. Assignments include brief writing and preparation of legal memoranda and opinions.

*Mr. Tisinger*

#### Selected Materials

#### PROPERTY I

Four 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. Chaffin*

Aigler, Smith & Tefft's *Cases on Property*, Volume I

#### TORTS I AND TORTS II

Eight hours

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 right of privacy; interference with advantageous relations; proximate causation; justification and excuse.

*Mr. Rees*

Gregory & Kalven's *Cases and Materials 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*

*Davis' Cases on Administrative Law.*

#### BUSINESS ORGANIZATIONS II\*

Four hours

Distinctions between business corporations and non-incorporated business associations. Formation of business corporations; de facto corporations; stock subscriptions; promoters. Relation between business corporations; and the stockholders. Partnership and partners; true partnership and partnership by estoppel; partnership property; powers of partners; relation

\*Registration open to third-year students.

of partners among themselves; dissolution and winding up. Powers and liabilities of business corporations.

*Mr. McLeod*

Gilmore's *Cases on Partnership* (3rd edition).

Lattin and Jennings *Cases and Materials on Corporations* (3rd edition).

#### BUSINESS ORGANIZATIONS III\*

Four hours

Management of business corporations. Conflict of interests in corporate transactions. Rights of stockholders: shares; dividends; pre-emptive right; preferred stock; corporate records; voting rights; minority rights; representative suits. Transfer of stock. Questions of finance. Dissolution. Creditors' rights. Prerequisite is Business Organizations II unless waived by the instructor.

*Mr. McLeod*

Lattin and Jennings *Cases and Materials on Corporations* (3rd edition).

#### COMPARATIVE LAW SEMINAR\*

Three hours

Historical, analytical and critical comparison of the solution of legal problems by common law and civil law states. Practical problems, especially in the fields of contracts, torts, domestic relations, and quasi contracts.

Von Mehren's *The Civil Law System*.

#### CONSTITUTIONAL LAW\*

Five 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*

Dowling's *Cases on Constitutional Law* (6th edition).

#### EQUITY

Five 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; interpleader; discovery and accounting; bills quia timet; bills of peace; joinder of parties and class suits.

*Mr. Shannonhouse*

Van Hecke's *Cases and Materials on Equitable Remedies*.

#### 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*

Morgan, Maguire and Weinstein's *Cases in Evidence* (4th edition).

\*Registration open to third-year students.

## GEORGIA PRACTICE AND PROCEDURE

Four hours

Jurisdiction of the trial and appellate courts; pleadings and procedure in all courts; techniques of the lawyer in the preparation and trial of cases.

*Mr. Green*

Leverett, Hall, Christopher, Davis and Shulman *Georgia Procedure and Practice*.

## INSURANCE

Four 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* (4th edition).

## INTERNATIONAL LAW SEMINAR\*

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 treaties and cooperation and adjustment of differences under special consideration of the Charter of the United Nations.

Fenwick's *Cases on International Law* (2nd edition).

## 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 have had no previous training in accounting.

*Mr. Heckman*

Black & Champion *Accounting & Business Decisions*

## MUNICIPAL CORPORATIONS\*

Four hours

The law of Municipal Corporations, including the method of creation; the general municipal powers; municipal action to promote public welfare; including zoning and city planning; appropriation of municipal funds; municipal contracts, municipal indebtedness; municipal torts; acquisitions and disposition of municipal property; municipal taxes and special assessments.

*Mr. Sentell*

Selected Materials.

## NEGOTIABLE INSTRUMENTS\*

Four hours

The law of bills, notes and checks according to the Uniform Negotiable Instruments Law; its local application; possible changes under the Uniform Commercial Code.

\*Registration open to third-year students.

Briton's *Cases on Bills and Notes* (4th edition).

PROBLEMS IN CRIMINAL LAW AND PROCEDURE\*

Four hours

A survey of criminal procedure from arrest to post-conviction remedies, with emphasis upon current major problems in the administration of criminal justice. The course also reviews some of the fundamental rules of evidence, constitutional law, Georgia practice and legal ethics, as they relate to the administration of criminal law. Some of the specific topics included are: the use of illegally sized evidence and coerced confessions; wiretapping; grand jury function and utility; indictment and information; extradition; nolle prosequi; writ of error coram nobis; executive clemency.

Mr. Shannonhouse

Keedy and Knowlton, *Case and Statutes on Administration of the Criminal Law* (1955) and *Selected Materials*

PROPERTY II

Five hours

Land titles, including the various estates in land and the mode of conveyancing at common law and under modern statutes; the execution of deeds and the subject matter thereof; creation of easements by implication; covenants for title; estoppel by deed; general principles of the recordation statutes.

Mr. Chaffin

Aigler, Smith & Tefft's *Cases on Property, Volume I* (2nd edition).

SALES\*

Four hours

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. Possible changes under the Uniform Commercial Code.

Mr. Benfield

Vold's *Cases on Sales* (3rd edition).

THIRD YEAR

ADMIRALTY

Four hours

Jurisdiction of admiralty as between state and federal courts and over watercraft and waters, persons, torts and contracts; the maritime lien; salvage; general average; collisions; damages; the various Acts of Congress relating to seamen; maritime workers, carriage of goods and limitations of liability.

Mr. Rees

Morrison and Stumberg's *Cases and Materials on Admiralty*.

BANKRUPTCY

Four hours

Historical survey; jurisdiction of the United States and the several states; summary and plenary jurisdiction; administrative officials; petitions and petitioners; bankrupt's discharge; acts of bankruptcy; assets of the estate; claims and distribution; composition procedures.

Hanna and MacLachlan's *Cases and materials on Creditors' Rights* (Consolidated 5th edition).

#### CONFLICT OF LAWS

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*

Cheatham, Goodrich, Griswold and Reese, *Cases on Conflict of Laws* (4th edition).

#### DAMAGES

Three hours

Types of damages including nominal and exemplary, compensatory, liquidated, direct and consequential; aggravation and mitigation, expenses of litigation; tort, contract, and eminent domain; entirety of recovery.

*Mr. Shannonhouse*

Crane's *Cases on Damages* (3rd edition).

#### ESTATE PLANNING SEMINAR

Four hours

Primarily a planning and drafting course to train the student in the practical application of the knowledge gained in the Wills, Trusts, Future Interests, and Taxation courses. Problem cases will be assigned and each student will be required to draft the necessary instruments which will best carry out the desired estate plan.

*Mr. Chaffin*

Casner's *Estate Planning* (2nd edition).

#### FEDERAL CIVIL PROCEDURE

Four hours

Pleading and practice under the Federal Rules of Civil Procedure including process, pleadings, pretrial procedures, trial and judicial review.

*Mr. Rees*

Vanderbilt's *Cases and Materials on Modern Procedure and Judicial Administration*.

*The Federal Rules of Civil Procedure*.

#### FEDERAL JURISDICTION

Four 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.

*Mr. Green*

McCormick, Chadbourn and Wright's *Cases and materials on Federal Courts* (4th edition).

#### GOVERNMENT REGULATION OF BUSINESS

Four hours

Contracts and combinations in restraint of trade; the Sherman anti-trust act; trade marks and trade names; appropriation of competitor's trade values and the misrepresentation of his product; resale price fixing and



legislation against price discrimination; the public utility concept; valuation and rate-control and regulation of public utilities by State and Federal administrative commissions.

*Mr. Shannonhouse*

Handler's *Cases on Trade Regulations* (3rd edition).

#### JURISPRUDENCE

Four hours

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. Rees*

Hall's *Readings in Jurisprudence*.

#### 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.

Handler's *Cases and Materials on Labor Law*.

#### LANDLORD AND TENANT

Four hours

The relation of landlord and tenant, including when and under what circumstances the relationship exists; express and implied covenants by lessor and lessee; transfers by lessor and lessee; a study of the various security devices and also of rent; liability for taxes, assessments and repairs; a study of various methods by which the relationship can be terminated; a study of option to purchase agreements and renewals and extensions.

*Mr. Rees*

Jacobs *Cases and Materials on Landlord and Tenant* (2nd edition).

#### LEGAL ETHICS

One hour

A comprehensive study of the organization and ethics of the legal profession based upon a consideration of the problems in the application and interpretation of the canons of legal and judicial ethics.

*Mr. Fortson*

Pirsig's *Cases and Materials on The Standards of the Legal Profession*

#### LEGAL PROBLEMS SEMINAR

Four hours

Designed to introduce third year students to theories of law as practiced by successful attorneys, the seminar partially equips them for intelligent performance of their duties when entering the profession. A number of problems are submitted by practicing lawyers after consultation with the professor. Students are given a problem, prepare memoranda of vital legal and factual aspects involved, and discuss these with the practitioner and professor in class. Negotiation and reduction to final draftsmanship of the selected writings are discussed.

*Mr. Fortson*

Selected Materials.

## LEGISLATION SEMINAR

Four 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\*

Three hours

Historical and constitutional basis; Judge Advocate Generals' Corps; military justice; habeas corpus; war crimes; laws of war and related international law problems; Federal Tort Claims Act.

*Mr. Shannonhouse*

Selected Materials.

## OFFICE PRACTICE

Four hours

A study of the interpretation and draftsmanship of statutes, administrative regulations, contracts, and corporate charters and bylaws; leases, sales agreements, security transactions, and corporate papers; techniques of student draftsmanship and critique.

Cook's *Cases and Materials on Legal Drafting*. (Revised edition).

## PROPERTY III

Four hours

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. Prerequisites are Property I and Property II.

*Mr. Chaffin*

Leach and Logan's *Cases and Materials on Future Interests* (1961).

## PROPERTY SECURITY

Three hours

Problems relating to security deeds and mortgages, and to security interests in property; the creation of security devices, their assignment and enforcement; priorities; dealers' financing; pledges; conditional sales; trust receipts.

*Mr. Green*

Sturges' *Cases on Credit Transactions* (4th edition).

## 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*

Powell's *Actions for Land* (2nd edition) 1946 Georgia and Selected Materials.

## REMEDIES

Three hours

Legal and equitable relief available to the injured party, including compensatory, restitutionary, and exemplary damages, injunctions, and specific relief as applied in various situations. Emphasis will be given to the rem-

\*Registration open to second-year students.

edies available for injuries to the person, interests in realty or personality, and for breach of an enforceable agreement.

*Mr. Chaffin*

*Wright's Cases on Remedies.*

#### RESTITUTION

Three hours

Defects in the formation and in the performance of contracts with special emphasis on available remedies, legal and equitable, contractual and quasi contractual. The right to the restitution of benefits conferred under mistake both of fact and law.

*Wade's Cases on Restitution 1958.*

*Mr. Shannonhouse*

#### SURETYSHIP

Four hours

A study of the legal relations of principal, creditor and surety, with particular emphasis upon the surety's rights of exoneration, subrogation, reimbursement and contribution, and the surety's defense against the creditor.

*Simpson's Cases on Suretyship*  
*The Restatement of Security.*

*Mr. Rees*

#### TAXATION I—FEDERAL INCOME TAX

Five hours

Correlation of the accounting and legal approach to Federal income tax problems from a study of statutes, regulations, and decisions. The taxation of incomes of individuals, partnerships and fiduciaries, with special attention to the problem of tax deductions and credits.

*Federal Tax Law Service*

*Mr. Heckman*

#### TAXATION II—FEDERAL TAXES OTHER THAN INCOME TAX

Five hours

Continuation of Taxation I. The legal and accounting problems arising from Federal income tax of corporations, gift taxes and estate taxes.

*Federal Tax Law Service*

*Mr. Heckman*

#### TAXATION III—ADVANCED FEDERAL INCOME TAX

Four hours

A detailed study of selected areas of federal income taxation with major emphasis upon the tax problems of small businesses. The analysis and use of statutory, regulatory and other interpretative materials is stressed.

*Griswold's Cases and Materials on Federal Taxation.*  
Internal Revenue Code.  
Income Tax Regulations.

*Mr. Rees*

#### TRIAL TACTICS AND METHODS

Three hours

A study of the trial lawyer's methods in the trial courts; of how, within ethical limits, to present the client's case in the most favorable light; of tactical principles and problems. Demonstrations are conducted.

*Keeton's Trial Tactics and Methods*

*Mr. Fortson*

## TRUSTS

Four hours

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. Chaffin

Bogert's *Cases on the Law of Trusts* (3rd edition).

## WILLS AND ADMINISTRATION OF ESTATES

Four hours

Testamentary capacity; formalities of wills; effect of contracts; fraud, undue influence, and mistake; revocation and republication; construction and interpretation. Probate jurisdiction; executors and administrators, descent and distribution; claims of creditors; summary proceedings.

Mr. Feild

Meachem and Atkinson, *Cases on Wills and Administration of Estates* (5th edition).

## WORKMEN'S COMPENSATION AND MEDICO-LEGAL PROBLEMS

Four hours

A study of the problems involved in the application and interpretation of modern Workmen's Compensation Acts, with special emphasis on the Georgia statute. A series of lectures covering medico-legal problems are included.

Mr. Feild

Riesenfeld and Maxwell's *Modern Social Legislation*.

# THE SCHOOL OF PHARMACY

KENNETH LEE WATERS, A.B., M.S., Ph.D., *Dean*

## 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. Effective April 1, 1960, the program was extended to five years, two years of pre-pharmacy being required for admission to the School followed by three professional years.

The educational objective of the School of Pharmacy is to train pharmacists; to give men and women such schooling in pharmacy and its allied sciences as will enable them to meet the present and future demands of their chosen profession in an able and intelligent manner. 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. Pharmacy today offers the student a career as a professional man, as a businessman, as a scientist, and presents a challenge to aid in the war against disease.

The School of Pharmacy is located in new quarters on the south campus, corner of Ag Drive and Green Street, as an integral part of the University Science Center. The new Pharmacy building, with 96,000 square feet, is one of the most modern Pharmacy buildings in the United States. It is completely air-conditioned and furnishes ample classroom, laboratory, and research facilities for the undergraduate and graduate programs of study.

## DEGREES OFFERED BY THE SCHOOL OF PHARMACY

### B. S. PHARMACY

Member schools of the American Association of Colleges of Pharmacy require students to complete a minimum of five years for their degree. The program of the School of Pharmacy consists of two years of pre-pharmacy work followed by three professional years. Member schools of the American Association of Colleges of Pharmacy require a student to spend a minimum of nine quarters in residence. Because of the sequence of courses, this generally requires three calendar years regardless of the amount of advanced credit offered.

### MASTER OF SCIENCE

The University of Georgia Graduate School offers the degree of Master of Science with majors in Pharmacy, Pharmacology, or Pharmaceutical Chemistry.

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 divisions 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.

#### DOCTOR OF PHILOSOPHY

The Ph.D. degree is offered through the School of Pharmacy with major areas of concentration in Pharmacy, Pharmacology, and Pharmaceutical Chemistry.

The rules and regulations of the Graduate School apply to candidates for the Doctor of Philosophy degree.

#### ADMISSION TO THE SCHOOL OF PHARMACY

To be admitted to the School of Pharmacy, a student must submit 90 quarters of acceptable college credits as outlined in the pre-pharmacy program. Applications should be forwarded to the Director of Admissions in the spring of the year. Students on the University campus should schedule their work carefully through the pre-pharmacy adviser and should make their applications directly to the Dean of the School of Pharmacy. Selection of students for admission will be based on previous college record of the applicant and his general aptitude for pharmacy. Applicants should have a C plus average before applying for admission. Interview and aptitude tests are required on all entering students. It is desired that arrangements be made for interview and testing at the time the application is submitted.

#### PRACTICAL EXPERIENCE

In order to practice pharmacy in the State of Georgia, one year of full time internship must be served under the supervision of a registered pharmacist. Credit may be received only after a student has completed a portion of his pre-pharmacy work. Students are encouraged to serve internship during the summer. *No credit* for internship will be given concurrently with school work.

All intern pharmacists must notify the Joint Secretary, State Examining Boards, 224 State Capital, Atlanta, Ga. The Pharmacist supervising the intern must also notify the Joint Secretary that the intern is under his supervision. Termination of any portion of the internship must be reported by the pharmacist and the intern.

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 internship, the notebook must be notarized and submitted to the State Board of Pharmacy at the time of the examination.

#### THE COOPERATIVE PLAN OF STUDY

Under this plan of study the student will make arrangements with a pharmacist in any town in the state to work alternate quarters while attending the University. It will be advantageous to the pharmacist, the student and to the University if students can be placed in pairs. The cooperative plan of study has the advantage over the usual plan of study in that it permits the student to obtain practical experience without interference with his scholastic duties. The plan has the further advantage in that it will enable a student with limited financial support to pay his own way through school.

Requirements of the cooperative plan of study are exactly the same as those for the conventional program. If the student desires to reduce the length of time he must spend at the University, he may take certain non-professional courses in an accredited school or University Off Campus Center, but in no case can the residence requirement be reduced below nine quarters.

Only students with proven ability will be accepted for the cooperative plan of study. Evidence of the student's ability will be based on previous college record. It is desirable that the applicant have the recommendation of a registered pharmacist.

Applicants interested in the cooperative plan of study should write to the Dean, School of Pharmacy, University of Georgia, Athens, Georgia.

### 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."

A student will not be permitted to register for the same course more than twice within any twelve month school year.

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.

**Minimum Academic Load**—All professional students in the School of Pharmacy must take a minimum academic load of thirteen credit hours per quarter. Second and third year professional students failing to pass in any quarter at least 13 hours with a grade of "C" or better shall be placed on scholastic probation for their next quarter in residence.

**CLASSIFICATION OF STUDENTS**—Students will be classified as first, second and third year professional students. To be so classified a student must take the required courses and maintain an academic average of C.

**LIMITATION OF 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 work load or his scholastic load.

There are available a number of assistantships to students working their way through school. These are generally reserved for students who have had one or more quarters in the School of Pharmacy.

A number of scholarships, such as the Georgia Rexall Club Scholarship, the Jacob G. Smith Scholarship, The Women's Auxiliary of the Georgia

Pharmaceutical Association Scholarship, the Georgia Pharmaceutical Association Scholarship and the J. D. Stetson Coleman Scholarship are available to deserving students.

The American Foundation for Pharmaceutical Education offers scholarships to deserving students who need financial assistance to complete their education. Second and third year students with high academic averages are eligible.

The Women's Auxiliary of the Georgia Pharmaceutical Association lends a small amount of money each year to deserving students in the second and third years who are making creditable marks. This loan is handled by the Auxiliary on recommendation of the Dean of the School of Pharmacy.

Those students planning pre-pharmacy are encouraged to make application for one of the hundred or more general University scholarships. Pre-pharmacy scholarships will also be available in other institutions through the Georgia Pharmaceutical Association.

Applicants should take college board examinations in the fall and submit their application for scholarships shortly after the first of the year.

#### THE ROBERT CUMMING WILSON AWARD

The Robert Cumming Wilson Award is given to a member of the third year 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. Third year professional 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.

#### THE HARRIS AWARD

The Harris Award is given to a member of the second year 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 \$50.

#### LAMBDA KAPPA SIGMA AWARD

Alpha Kappa Chapter of Lambda Kappa Sigma, women's pharmaceutical sorority, each year offers an award to the outstanding woman student in recognition of her achievements.

#### OTHER AWARDS

Additional awards are made by pharmaceutical firms in recognition of outstanding achievements in extra-curricular activities and also to students judged outstanding in practical pharmacy. These prizes usually consist of coveted pharmacy reference books.



## 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, 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 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.

KAPPA PSI—The professional pharmaceutical fraternity of Kappa Psi, Gamma Phi Chapter, was established at the University of Georgia in 1951. Eligible students are selected by the membership of the fraternity.

PHI DELTA CHI—The professional pharmaceutical fraternity of Phi Delta Chi, Alpha Iota Chapter, was established at the University of Georgia in 1937. After a period of inactivity, this Chapter was reactivated in 1952. Eligible students are selected by the membership of the fraternity.

LAMBDA KAPPA SIGMA—The women's professional pharmaceutical sorority of Lambda Kappa Sigma, Alpha Kappa Chapter, was established in 1954. Eligible women students are selected by the membership of the sorority.

## ACCREDITATION

The School of Pharmacy, the University of Georgia, Athens, Georgia, is accredited by the American Council on Pharmaceutical Education.

## PRE-PHARMACY CURRICULUM

KENNETH L. WATERS, *Dean*

MISS MONA MAYHORN, *Pre-Pharmacy Adviser*

In order to be admitted to the professional program in the School of Pharmacy, the student must have completed a minimum of 90 quarter hours of pre-pharmacy courses, exclusive of Basic Military and Physical Education. Students with high academic average, having 90 hours of credit may be admitted with not more than fifteen quarter hours of deficiencies in required courses, provided such deficiencies may be completed during the first professional year.

	Qtr. Hrs.		Qtr. Hrs.
Chemistry 121-122-223 .....	15	Economics 105 .....	5
English (Must include 101 & 102) .....	15	Political Science 101** .....	5
Human Biology 101-102 .....	10	Physics 127 .....	5
		General Electives *** .....	15

Zoology 226 _____	5	Military 1-2, Air Science 5-6 _____	12
History* _____	5	Physical Education for Men _____	0
Mathematics 100-101 _____	10	Physical Education of Women _____	10
			Total _____
			100-102

Application to the School of Pharmacy will normally be made by April 1. Those students taking pre-pharmacy work on the University campus will normally make application to the Dean of the School of Pharmacy when they have completed five quarters of work.

Candidates will be expected to have satisfactorily completed the above program prior to the date of starting professional courses.

### PROFESSIONAL PROGRAM FIRST PROFESSIONAL YEAR

	Hours		Hours
Pharmacy Orientation 320 _____	3	Pharmacy Law 390 _____	3
Pharmaceutical Math 323**** _____	3	Inorganic Pharmacy 322 _____	3
Chemistry 340-341 _____	10	Physical Pharmacy 378 _____	4
Pharmacy Preparations 321 _____	3	Chemistry 380 _____	5
Physics 128 _____	5	Electives _____	10
			Total _____
			49

### SECOND PROFESSIONAL YEAR\*\*\*\*\*

Junior Dispensing 406-7-8 _____	12	Medicinal Chemistry 445-6 _____	6
Pharmacognosy 404-5 _____	8	Drug Assay 402 _____	5
Introductory Pharmacology 450 _____	4	Biopharmacy 447 _____	5
Introductory Medicinal Chemistry 444 _____	3	Bacteriology 350 _____	5
			Total _____
			48

### THIRD PROFESSIONAL YEAR

Senior Dispensing 537-8-9 _____	12	Drug Store Operation 596-7 _____	8
Pharmacology 581-2-3 _____	12	Field Trips***** _____	0
Bacteriology 352 _____	3	Electives Professional _____	9
Pharmaceutical Accounting 510 _____	5		
			Total _____
			49

## DESCRIPTION OF COURSES

The University reserves the right to withdraw any courses 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.

\*The History Qualifying Examinations will not fulfill this requirement.

\*\*Exemption of Federal and Georgia Construction will not fulfill this requirement.

\*\*\*Electives should be chosen from the Humanities, Social Sciences, Psychology, or Languages and should not be Science, Business or applied courses.

\*\*\*\*Students must satisfactorily complete pharmaceutical arithmetic achievement test as a prerequisite for this course.

\*\*\*\*\*Proficiency in typing, without credit, will be required for admission to the second professional year.

\*\*\*\*\*Students annually visit hospitals, pharmaceutical manufacturers, and wholesale houses and are required to participate in such trips. Trips are made at the expense of the students.

## PHARMACY

**320. PHARMACY ORIENTATION.** 3 hours. *The Staff.*

Introduction to the University campus and the School of Pharmacy. Evolution and development of the profession. Current practices, trends, opportunities and ethical standards.

**321. PHARMACY PREPARATIONS.** 3 hours. Prerequisite: Chemistry 340a or concurrent registration. *The Staff.*

A discussion of the technical operation of pharmacy, including definitions and official preparations.

**323. PHARMACEUTICAL MATHEMATICS.** 3 hours. *The Staff.*

A study of calculations involved in the practice of the profession of pharmacy. (Those students showing deficiency in the pharmaceutical arithmetic achievement tests will be required to take remedial work.)

**378. PHYSICAL PHARMACY.** 4 hours. Prerequisite: Physics 127, Pharmacy 321 and 323. Three lectures and three hour laboratory. *Mr. Thompson.*

A study of certain theoretical concepts of pharmaceutical preparation, including physico-chemical considerations of stability and of manufacturing.

**406-407-408. JUNIOR DISPENSING.** 12 hours (4 hours each quarter). Three hours lecture and three hours laboratory weekly. Prerequisites: Completion of first professional year requirements. *Mr. Cadwallader* and *Mr. Entrekkin*

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. A knowledge of typing is required for this course.

**537-538-539. SENIOR DISPENSING.** 12 hours (4 hours each quarter). Two hours lecture and six hours laboratory weekly. Prerequisites: Completion of second year professional requirements. *Mr. Cooper.*

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 required for this course.

## PHARMACOGNOSY

**404-405. PHARMACOGNOSY.** 8 hours (4 hours each quarter). Four hours lecture and recitation. Prerequisites: Pharmacy 320, Chemistry 340 and ten hours of biology. *Mr. Ansel.*

The study of drugs of plant and animal origin with emphasis placed on classification, pharmacological action, and therapeutic use.

## PHARMACOLOGY

**450. INTRODUCTORY PHARMACOLOGY.** 4 hours, Four hours lecture weekly. Prerequisites: Completion of first professional year requirements. *Mr. Wade* and *Mr. Johnson.*

Principles of physiology are studied with consideration being given to those functions altered by drugs.

**581-582-583. PHARMACOLOGY.** 12 hours. (4 hours each quarter). Four hours lecture weekly for 581, three hours lecture and three hours laboratory weekly for 582 and 583. Prerequisites: Pharmacology 450, Pharmacy 406 and 447. *Mr. Wade* and *Mr. Johnson.*

Drugs are discussed as to their pharmacological actions, toxicology, and therapeutic application.

## PHARMACEUTICAL ADMINISTRATION

**390. PHARMACEUTICAL LAW.** 3 hours Three hours lecture and recitation. Prerequisite: Completion of second professional year. *The Staff.*

A review of the various laws involved in pharmaceutical prescription practice and a study of the state and federal regulations including organization enforcement procedures. Consideration is also given to case histories involving negligence and malpractice.

**510. PHARMACEUTICAL ACCOUNTING.** Five hours lecture and recitation. *Business Administration Staff.*

Elementary accounting principles and procedures suitable for small and medium size drug stores operated by independent owners.

596-597. DRUG STORE OPERATIONS. 8 hours. (4 hours each quarter). Three hours lecture and three hours laboratory weekly. Prerequisites: Completion of second professional year requirements, Pharmacy 510, Economics 105. *Mr. Dobbs.*

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 and advertising.

BUSINESS EDUCATION 107. PERSONAL TYPING. No academic credit (five periods a week). *Business Education 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 537.

BUSINESS EDUCATION 108. BUSINESS COMMUNICATIONS.\*  
*Business Education Staff.*

Qualities and principles of effective business letter writing; practice in writing various types of letters and reports.

### PHARMACEUTICAL CHEMISTRY

322. INORGANIC PHARMACY. 3 hours. Prerequisite: Chemistry 340, and Pharmacy 321. *Mr. Millikan.*

A study of inorganic chemical compounds and preparations of value in human therapy.

402. DRUG ASSAY. Three hours lecture, six hours laboratory. Prerequisite: Chemistry 380. *Mr. Millikan.*

Official and standard methods of assay of some common pharmaceuticals. The student is introduced to instrumentation procedures as used by the modern pharmaceutical firm.

444. INTRODUCTION TO ORGANIC MEDICINAL CHEMISTRY. 3 hours. Prerequisites: Chemistry 340-341. *Mr. LaRocca and Mr. Thompson.*

Chemical and physical properties of organic medicinal substances with specific emphasis on the relationship of these properties to pharmaceutical activity.

445-446. MEDICINAL CHEMISTRY. 6 hours. (3 hours each quarter). Prerequisite: Pharmacy 444. *Mr. LaRocca and Mr. Thompson.*

A study of important pharmaceutical organic products, natural and synthetic, to include sources, properties, reactions, and methods of production.

447. BIOPHARMACY. Four hours lecture, three hours laboratory. Prerequisite: Pharmacy 444: *Mr. Thompson.*

A study of biochemistry and those problems closely related to pharmacy which are of importance to the practicing pharmacist.

The following courses in the Pharmacy Curriculum are taught by the faculty of the College of Arts and Sciences. A description of the courses may be found in the College of Arts and Sciences section of this catalogue.

BACTERIOLOGY 350. General Microbiology; BACTERIOLOGY 352 Microbiology and Disease; CHEMISTRY 340-341, Organic Chemistry; CHEMISTRY 380, Quantitative Inorganic Analysis.

### UNDERGRADUATE PROFESSIONAL ELECTIVES

501. PUBLIC HEALTH. 3 hours. Prerequisites: Completion of second professional year requirements. *The Staff.*

A study of the prevention and control of diseases; promotion of public health and welfare; sanitary control of water, food and sewage; municipal, state and federal health regulations; and other problems of a general health nature.

521. SPECIAL TOPICS IN PHARMACY. 2 hours. Two lecture periods or the equivalent in laboratory periods. *The Staff.*

522. PHARMACEUTICAL MANUFACTURING. 3 hours. Two lectures and three laboratory hours weekly. *The Staff.*

Lectures to include a study of different equipment used in pharmaceutical manufacturing. Laboratory work to involve pilot plant scale manufacturing.

524. HOSPITAL PHARMACY. 3 hours. Two hours lecture and three hours laboratory. *Mr. King.*

A course designed to acquaint the student with the operation of a hospital pharmacy.

\*Elective credit—highly recommended for all students.

595. HOUSEHOLD AND ANIMAL HEALTH PRODUCTS. 3 hours. Three hours lecture and recitation. Prerequisite: Completion of second professional year requirements. *The Staff.*

The study of fumigants, rodenticides, insecticides, fungicides, weedicides, parasiticides and toxins, serums, vaccines and related products commonly sold in the drug store. Ethics, economic and legal aspects will be stressed.

598. UNDERGRADUATE RESEARCH PROBLEM. 3 to 5 hours. Prerequisites: Completion of second year professional requirements 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.

## GRADUATE COURSES

Unless otherwise specified, all laboratory periods are three hours.

For any graduate course in Pharmacy the prerequisites are two senior division courses in pharmacy or related subjects, plus any specified prerequisites.

721. SPECIAL TOPICS IN PHARMACY. 2 hours. *The Staff.*

A study of recent developments in dosage forms including the detailed examination of preparations involving chemical reactions and special assigned topics.

722. PHARMACEUTICAL TECHNOLOGY. Two lecture and nine laboratory hours. *Mr. Entreklin.*

Laboratory work to involve pilot plant scale manufacturing and product development.

723. ADVANCED PHARMACEUTICAL TECHNOLOGY. Prerequisite: Pharmacy 722. Two hours lecture and nine hours laboratory. *Mr. Entreklin.*

Lecture and laboratory work will place special emphasis on the more complicated procedures encountered in manufacturing. Processing and standardization of pharmaceutical materials will be included.

724. HOSPITAL PHARMACY. 3 hours. Two hours lecture and three hours laboratory. *Mr. King.*

Advanced study of the functions and practices of a hospital pharmacy. Emphasis on supervision and economics of a hospital pharmacy.

781-782-783. PHARMACOLOGY. 12 hours. (4 hours each quarter). Four hours weekly for 781, three hours lecture and one laboratory weekly for 782 and 783. Required for graduate students majoring in pharmacology having undergraduate degrees in fields other than pharmacy. Prerequisites: Pharmacy 447 and 450 or equivalent or consent of instructor. *Mr. Wade* and *Mr. Johnson.*

Drugs are discussed as to their pharmacological actions, toxicology, and therapeutic application.

810. PHARMACEUTICAL CONTROL AND ANALYSIS. Two lectures and six hours laboratory. *Mr. Millikan* and *Mr. Thompson.*

Lectures, reading and analytical procedures of more complicated nature taken from U.S.P., N.F., and A.O.A.C.

811-812. SYNTHETIC MEDICINAL PRODUCTS. 10 hours. Five hours lecture a quarter for two quarters. *Mr. LaRocca.*

The chemistry and synthesis of Organic Medicinal Agents, etc. Special emphasis to be placed on correlation of structure with physiological activity and industrial application of processes.

814-815. ORGANIC PHARMACEUTICAL SYNTHESIS. 5 to 10 hours. One conference and eight laboratory hours. *Mr. LaRocca* and *Mr. Waters.*

Application of synthetic procedures in the preparation of various medicinal chemicals and their intermediates.

830. RADIATION PRINCIPLES. Prerequisite: Pharmacy 446. Two hours lectures and two 3-hour laboratories. *Mr. LaRocca*, *Mr. Lassiter*, and *Mr. Hamdy.*

Principles and techniques of radiochemistry and radiobiology as applied to pharmacy.

831. STUDIES IN PHARMACODYNAMICS. Prerequisites: Pharmacy 581, 582, 583, or equivalent. *Mr. Wade*, and *Mr. Johnson.*

Concerns primarily the mechanisms of action of drugs as reported in recent literature.

832. METHODS IN PHARMACOLOGICAL RESEARCH. Prerequisites: Pharmacy 581, 582, 583, or equivalent. *Mr. Wade*, and *Mr. Johnson.*

Lectures, library projects, and laboratory work designed to introduce the graduate student to research methods in Pharmacology.

Address all correspondence to the Dean, School of Pharmacy, University of Georgia, Athens, Georgia.

# THE COLLEGE OF AGRICULTURE

## ADMINISTRATIVE OFFICERS

- CALVIN CLYDE MURRAY, B.S., M.S., Ph.D., *Dean and Coordinator of Agriculture.*
- LINTON WEBSTER EBERHARDT, JR., B.S.F., *Director of the Agricultural Extension Service.*
- GEORGE HARRIS KING, B.S.A., M.S.A., LL.D., *Director of Experiment Stations.*
- ROBERT STEVENSON WHEELER, B.S., Ph.D., *Director of Resident Instruction.*
- JOHN EDWARD BAILEY, B.S.A., *Horticulturist and Superintendent of the Mountain Experiment Station (Blairsville, Georgia).*
- ORIEN LEFRETTS BROOKS, B.S.A., *Branch Station Superintendent (Midville, Georgia).*
- EDMUND BROADUS BROWNE, B.S., M.S., Ph.D., *Director of the College Experiment Station.*
- HOYT EDWIN CHASTAIN, B.S.A., *District Agent Chairman (Extension).*
- GERALD YARBROUGH DUKE, B.S.A., M.S., *Assistant Director-Management, (Extension).*
- BYRON DYER, B.S.A., M.S.A., *District Agent Chairman (Extension).*
- WILLIAM THOMAS FULLILOVE, B.S.A., *Agricultural Economist and Director of the Georgia Experiment Station, (Experiment, Georgia).*
- JULIA GRANT, B.B.A., *Assistant Comptroller, (Experiment, Georgia).*
- JESSIE H. HARDY, B.S.H.E., *District Home Demonstration Agent (Extension).*
- DEAN DILLARD HAYES, B.S.A., *Branch Station Superintendent (Calhoun, Georgia).*
- MARTHA HARRISON JONES, B.S.H.E., M.S., *District Home Demonstration Agent (Extension).*
- FRANK PICKETT KING, B.S.A., M.S.A., Ph.D., *Director of the Georgia Coastal Plain Experiment Station (Tifton, Georgia).*
- WILLIAM ANSON KING, B.S.A., *District Agent Chairman (Extension).*
- JOE C. KNOX, B.S.A., *District Agent Chairman (Extension).*
- HAZEL BURGESS MALONE, B.S.H.E., *District Home Demonstration Agent (Extension).*
- EVERETT FINCHER MATTHEWS, *Comptroller (Tifton, Georgia).*
- LOUISE MEEKS, B.S.H.E., *District Home Demonstration Agent (Extension).*
- ROBERT BURGESS MOSS, B.S.A., M.S., *Superintendent, Southwest Branch Experiment Station (Plains, Georgia).*
- CHARLES ROGERS O'KELLEY, M.S.A., *State Agricultural Leader (Extension).*
- ADDIE MAE R. POWERS, B.S.H.E., *District Home Demonstration Agent, (Extension).*
- JOEL CONDOR RICHARDSON, B.S.A., *District Agent Chairman (Extension).*
- EDDYE BELLE ROSS, B.S.H.E., *State Home Demonstration Leader (Extension).*
- EDNA SUE STANFORD, B.S.H.E., *District Home Demonstration Agent (Extension).*
- HARLEY FRANK SHURLING, B.S.A., *District Agent Chairman (Extension).*
- KENNETH TREANOR, B.S.A., *Director Branch Experiment Stations.*
- THOMAS LAURICE WALTON, B.S.A., M.S.A., *State 4-H Club Leader (Extension).*

## 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.

There are a number of scholarships available to students in the College of Agriculture. Applicants should contact the Director of Resident Instruction.

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 Coordinator, who is responsible to the President of the University. Under the Dean and Coordinator there are three directors, as follows: a director in charge of instruction; a director in charge of extension work; and a director in charge of experiment stations. At each of the experiment stations, including Athens, Experiment, and Tifton, there is a director in charge.

In the College of Agriculture there are eleven subject matter fields or divisions, each of which embraces research, teaching, and extension, and each of which is in the charge of a chairman. These divisions are: agronomy, agricultural economics, agricultural engineering, animal husbandry, dairy, entomology, food technology, horticulture, landscape architecture, plant pathology, and poultry. 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 bacteriology, 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 outline, students registered in agriculture may receive the degree of Bachelor of Sciences in Agriculture, and students in agricultural engineering, the degree of Bachelor of Science in Agricultural Engineering.

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.

The Master of Science degree is offered in Agriculture, Agricultural Engineering, and Landscape Architecture. The Ph.D. degree is offered in Agronomy, Animal Nutrition, Food Technology and Dairy Manufactures, Plant

Sciences and Poultry Husbandry. For further information concerning these degrees, consult the Graduate Bulletin.

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.

#### ADMISSION REQUIREMENTS FOR VETERINARY MEDICINE

In order to matriculate in the School of Veterinary Medicine, a student must present a minimum of 99 quarter hours credit, exclusive of Basic Military and Physical Education, 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:

	Quarter Hours
Chemistry 121, 122, 223, 340, 341, 342 .....	30
Physics 127, 128 .....	10
Mathematics 100, 101 .....	10
Botany 121, Zoology 225, 226 .....	15
English 101, 102, Speech 108 .....	15
Animal Husbandry 101, Dairy 103, Poultry 160 .....	9
Nutrition (AHY 358), Genetics (PAT 358) .....	10
Political Science 101, History 100 .....	(10)*
Military 1-2, Air Science 5-6 .....	12
Physical Education (six quarters) .....	0
Total	111—(121)*

All candidates for admission into the entering class in September each year will be required to take during the preceding spring, 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.

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.

#### 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 the B.S.A. degree by taking three quarters of additional work prior to, during or subsequent to his work in the School of Veterinary Medicine. A major in Animal Husbandry, Dairy, Entomology or Poultry would require the least amount of extra course work on the part of the student.

It is preferred that students working for both the B.S.A. and D.V.M. degrees complete three years of pre-veterinary work in the College of Agriculture. The first two years are the same as those for B.S.A. students

\*May be satisfied by passing the examination on the Federal and Georgia Constitutions and on American and Georgia History. Students following a three-year Pre-Veterinary schedule must include 9-15 hours of Social Science courses in their curriculum even though they satisfy the Constitution and History requirements by examination.



except Chemistry 340 and 341 are substituted for Chemistry 261 and one elective in the sophomore year. The third year should be directed toward completing courses for the major, one minor and certain science selections. The B.S.A. would be granted after the student had completed the first year in the School of Veterinary Medicine.

## AGRICULTURAL CURRICULUM FOR THE B.S.A. DEGREE

The curriculum for the freshman and sophomore years provides a core of general education and basic science courses as well as introductory courses in agricultural science. The curriculum is designed to allow flexibility of choice of agricultural and non-agricultural electives. It is also designed so that students may transfer to the College of Agriculture from non-agricultural colleges without loss of time or credit if their credits include the equivalent of the general education and basic science portion of this curriculum.

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) *Agricultural Extension*; (4) *Agronomy*, including soils; (5) *Animal Husbandry*; (6) *Botany*; (7) *Dairy*; (8) *Entomology*; (9) *Food Technology*; (10) *General Agriculture*; (11) *Horticulture*; (12) *Plant Pathology and Plant Breeding*; (13) *Poultry*; and (14) *Agricultural Education*.

There is a demand for College of Agriculture graduates trained in the various media of communications. Because of this, arrangements have been made with the School of Journalism for students in any department in the College of Agriculture to obtain the equivalent of a major in agricultural journalism. This is possible because of the flexibility permitted in the selection of minor courses and general electives.

Generally the courses in agricultural journalism will be selected from the following journalism courses: 1, 350 or 368—Introductory Courses; 456—Magazines; 557—Advertising; 558—Feature Writing; 559—Book Reviewing; 577—Public Relations; 580—Radio and Television; 581—Radio and Television News; 582—Radio and Television Programming.

A student who majors in one of the subject matter departments in the College of Agriculture has a choice of following a program or option in Agricultural Science or in Agricultural Administration.

*The Agricultural Science Option.* This program is designed to provide training in basic and applied sciences and to prepare students for graduate study, teaching, extension, research, farming, or for employment in State and Federal agencies and in private industry.

*The Agricultural Administration Option.* This option providing training in technical agriculture and in business management is designed to prepare students for employment in agri-business. Agri-business firms process, package, transport, finance, store and merchandise farm products, others sell feed, seed, fertilizer, drugs, vaccines, insecticides, machinery and other supplies to farmers.

## BACHELOR OF SCIENCE IN AGRICULTURE

### FRESHMAN AND SOPHOMORE YEARS

	Hours
Chemistry 121, 122, 261 _____	15
Botany 121, 122, Zoology 225, 226 (any three) _____	15

English 101, 102, Speech 108 .....	15
Physics 120 .....	5
Mathematics 100 .....	5
*Political Science 101, History 100 .....	10 (0)
Agriculture Courses (Minimum) .....	15
**Electives or Special Requirements .....	10 (20)
Basic Air or Military Science, Physical Education 1-2 .....	12
<hr/>	<hr/>
Total .....	102

### JUNIOR AND SENIOR REQUIREMENTS

#### A. Administration Option

MAJOR .....	20 hours
In Agricultural Economics, Agricultural Extension, Agronomy, Animal Husbandry, Dairy, Entomology, Food Technology, Horticulture, Plant Pathology, Plant Breeding or Poultry.	
AGRICULTURAL ECONOMICS: 304 408, 467 .....	15 hours
BUSINESS ADMINISTRATION: 110, 370 and 10 additional hours approved by faculty advisor .....	20 hours
SCIENCE SELECTIONS .....	10 hours
Bacteriology 350, 461, Botany 375, 380, Agronomy 423, Chemistry 223, 380, 451, Economics 105, 312, Geology 125, Mathematics 101, 210, 356, Sociology 431, 433, Plant Pathology 353, 358, Entomology 374, Zoology 390.	
SPECIAL REQUIREMENTS: Mathematics 356 or Economics 312, Agricultural Economics 469 or Business Administration 330 .....	10 hours
ELECTIVES AND/OR ADDITIONAL SPECIAL REQUIREMENTS .....	30 hours
TOTAL JUNIOR-SENIOR REQUIREMENTS .....	105 hours
TOTAL FRESHMAN-SOPHOMORE REQUIREMENTS .....	90 hours***
TOTAL COURSE REQUIREMENTS .....	195 hours***

### JUNIOR AND SENIOR REQUIREMENTS

#### B. Science Option

MAJOR .....	20 hours
In Chemistry, Agricultural Economics, Agricultural Education, Agricultural Extension, Agronomy, Animal Husbandry, Botany, Dairy, Entomology, Food Technology, General Agriculture, Horticulture, Plant Pathology, Plant Breeding or Poultry.	
SCIENCE SELECTIONS .....	25 hours
Bacteriology 350, 461, Botany 375, 380, Agronomy 423, Chemistry 223, 380, 451, Economics 105, 312, Geology 125, Mathematics 101, 210, 356, Sociology 431, 433 Plant Pathology 353, 358, Entomology 374, Zoology 390.	
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

\*May be satisfied by passing qualifying examinations.

\*\*Since no credits are earned by passing the Constitutions and History qualifying examinations, elective hours range from 10-20.

\*\*\*Exclusive of required courses Air 5-6 or Military 1-2 and Physical Education 1-2.

GENERAL ELECTIVES—not less than .....	20 hours
TOTAL JUNIOR-SENIOR REQUIREMENTS .....	105 hours
TOTAL FRESHMAN-SOPHOMORE REQUIREMENTS .....	90 hours*
TOTAL COURSE REQUIREMENTS .....	195 hours*

## ORIENTATION COURSE FOR COLLEGE OF AGRICULTURE FRESHMEN

### 101. (AGRICULTURE) ORIENTATION. 1 hour. *Mr. Wheeler.*

A course designed to aid agricultural freshmen adjust to college life and to better understand the occupational opportunities available to graduates. The functions of the total university, use of libraries, study procedures, organization and functions of the College, state and federal agricultural agencies, personality development, social behavior, student activities, planning a program of study and career opportunities are discussed.

## COOPERATIVE GRADUATE COURSE

### AMONG DEPARTMENTS IN COLLEGE OF AGRICULTURE

830. RADIATION PRINCIPLES IN AGRICULTURE. Prerequisites: Chemistry 651, Botany 380 or Poultry 401 or Physics 228. Two lectures and two 3-hour laboratories. *Mr. Edwards, Mr. Hamdy, Mr. Lassiter and Mr. Miller.*

Principles and techniques of radiochemistry and radiobiology as applied to agriculture.

## 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 basic curricula within either the Agricultural Administration or Agricultural Science options, given previously, outline requirements for graduation and suggest departments in which students may specialize.

Each student should consult with the head of the department in which he intends to do his major work for a list of the freshman-sophomore courses required or suggested for a major in that department. A complete list of freshman-sophomore courses required by majors in Agricultural Education is given under the listings of that department.

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.

\*Exclusive of the required courses Military 1-2 or Air 5-6, and Physical Education 1-2.

## AGRICULTURAL CHEMISTRY\*

(Chemistry Building, South 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 curriculum for majors in chemistry is designed to prepare students for professional employment in experiment stations, in governmental and industrial chemical or biochemical laboratories, and as chemical or biochemical staff members of colleges, universities, hospitals and allied chemical industries. This curriculum is highly recommended for students seeking professional status and for those who plan to do graduate study.

### CURRICULUM FOR THE B.S.A. DEGREE

#### WITH A MAJOR IN CHEMISTRY

##### FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
Eng. 101, 102, Speech 108 .....	15	Botany 121, 122 .....	10
Math. 100, 101, 210 .....	15	Math. 254, 255 .....	10
Chem. 121, 122, 223 .....	15	Physics 127, 128 .....	10
		Chem. 380, 340, 341 .....	15
	—		—
	45		45

##### JUNIOR AND SENIOR YEARS

	Hours		Hours
Zoology 225 or 226 .....	5	Chem. 441, 451, 480, 580 .....	20
Physics 229 .....	5	*Chemistry Elective .....	5
Chemistry 342, 490 a, b, c, .....	20	Electives in the College of	
German 101, 102 .....	10	Agriculture .....	25
Agronomy 210 .....	5		
	—		—
	45		50

Total: 185 Hours

\*From Chemistry 420, 421, 424, 452, 481, 560, and 522.

Political Science 101 and History 100 may be satisfied by examination.

- NOTE: (a) A scholastic average of "B" must be made for the freshman and sophomore years in order to continue this curriculum. An average of "B" must be maintained for the entire four years.
- (b) This curriculum meets the prescribed standards of the American Chemical Society for the training of chemists.

AMERICAN CHEMICAL SOCIETY CERTIFICATION: All students who satisfactorily complete this curriculum are automatically certified by the department of chemistry to the American Chemical Society.

### CHEMISTRY

121, 122. GENERAL CHEMISTRY. Four lectures or recitations and one laboratory period per week each quarter. *The Staff.*

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.

\*Fundamental Chemistry courses are a subdivision of the Department of Chemistry of the College of Arts and Sciences. For other offerings see the section of the College of Arts and Sciences.

223. **QUALITATIVE INORGANIC ANALYSIS.** Two lectures or recitations and three laboratory periods. Prerequisite: Chemistry 122. *Mr. Waggoner, Mr. Whitehead, Mr. Wilder.*

The fundamental theories of qualitative analysis and analyses of common cations and anions by semi-micro methods.

261. **ORGANIC CHEMISTRY.** Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 112, 122, or with consent of Head of Department. *Mr. Coggin, Mr. Philbrook, Mr. Wilder.*

A fundamental course in aliphatic organic chemistry.

380. **QUANTITATIVE INORGANIC ANALYSIS.** Two lectures and three three-hour laboratory periods. Prerequisite: Chemistry 223. *Mr. Whitehead.*

The fundamental theories of quantitative analysis and typical analyses involving volumetric and gravimetric methods.

451. **PHYSIOLOGICAL CHEMISTRY.** Four lectures or recitations and one laboratory period. Prerequisites: Chemistry 261 and a course in botany or biology or zoology or animal husbandry or poultry. *Mr. Coggin, Mr. Cormier, and Mr. McRorie.*

Fundamental principles of physiological chemistry in the animal body, including the chemistry of foods, digestion, metabolism and excretions.

852. **PHYSIOLOGICAL CHEMISTRY.** Four lectures or recitations and one laboratory period. Prerequisite: Chemistry 651. *Mr. Coggin, Mr. Cormier, or Mr. McRorie.*

The metabolism of carbohydrates, lipids, and proteins.

855.1. **PHYTOCHEMISTRY.** Three lectures. Prerequisite: Chemistry 451, and one course in botany. *Mr. Cormier or Mr. McRorie.*

A study of the compounds and chemical principles encountered in plants.

## DEPARTMENT OF AGRICULTURAL ECONOMICS

(Livestock - Poultry Building, South Campus)

Acting Division Chairman and Head: Brannen. Staff: Brown, Eickhoff, Frazier, Jones, McArthur, North, Padgett, Proctor, Rose, Saunders, Thompson, Wise.

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.

These positions, require specialized preparation in agricultural economics, agricultural credit, farm finance, land economics, agricultural adjustments, marketing farm products, farm management, and cooperation in agriculture.

(2) To prepare students for entering private business in positions that require fundamental training in farm management, marketing, land use, farm credit, and other similar areas connected with agriculture. The problem of surpluses and the growing importance of distribution are placing added emphasis upon training in agricultural marketing. Adjustments in systems of farming are emphasizing the need for training in the field of farm credit. The great emphasis upon agri-business calls for more training in economics.

(3) To prepare students for graduate work in agricultural economics and marketing farm products.

There continues to be 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. Demand by private firms for men with post graduate training has increased greatly.

A student interested in the subject of agricultural economics is advised to study the 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 advisor. 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

#### Science Option

##### 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, 304, 310, 351 \_\_\_\_\_ 20 Hours  
SCIENCE SELECTIONS:

Mathematics 200, and Philosophy 104 suggested  
among science selections \_\_\_\_\_ 25 Hours  
FIRST MINOR: Economics 326 or 334 and Business  
Administration 370 \_\_\_\_\_ 10 Hours  
SECOND MINOR: Must be in one department of the  
College of Agriculture \_\_\_\_\_ 10 Hours  
SPECIAL REQUIREMENTS: Agricultural Economics 458 or 467 \_\_\_\_\_ 5 Hours  
ELECTIVES: Selected with the Head of the Department \_\_\_\_\_ 35 Hours

### CONCENTRATION IN AGRICULTURAL ECONOMICS

#### Administration Option

This concentration is designed to train men for jobs in agricultural businesses, including firms marketing agricultural commodities and those providing supplies, equipment and services to producers.

MAJOR: Agricultural Economics 301, 304, 408, 467 \_\_\_\_\_ 20 Hours  
AGRICULTURE ELECTIVES: (other than agricultural economics) \_\_\_\_\_ 15 Hours  
BUSINESS ADMINISTRATION: 110, 111, 351, 370 \_\_\_\_\_ 20 Hours  
SCIENCE SELECTIONS: Selected with Departmental approval \_\_\_\_\_ 10 Hours  
SPECIAL REQUIREMENTS: (Mathematics 357 or Economics 312;  
Agricultural Economics 310, 469 or Economics 330) \_\_\_\_\_ 15 Hours  
ELECTIVES: Selected with Departmental approval \_\_\_\_\_ 25 Hours

### CONCENTRATION IN AGRICULTURAL MARKETING

#### Science Option

##### JUNIOR AND SENIOR YEARS

This concentration is designed to train men for jobs in agricultural marketing, including professional positions in teaching, extension, and research in this field.

MAJOR: Agricultural Economics 301, 304, 310, 400, 403, \_\_\_\_\_ 20 Hours  
SCIENCE SELECTIONS: Mathematics 200, and Philosophy 104  
suggested among science selections \_\_\_\_\_ 25 Hours  
FIRST MINOR: May be in any one department in the University \_\_\_\_\_ 10 Hours  
(Recommended: Business Administration 110, 111, 370, any two)

SECOND MINOR: Must be in one department of College of Agriculture .....	10 Hours
SPECIAL REQUIREMENT: Agricultural Economics 408, 467 .....	10 Hours
ELECTIVES: Selected with Departmental approval .....	30 Hours

CONCENTRATION IN FARM FINANCE

Science Option

JUNIOR AND SENIOR YEARS

This concentration is designed to train men for jobs with the federal land banks, production credit associations, the Farmers Home Administration, farm loan department of commercial banks, and the finance departments of cooperatives and other corporations.

MAJOR: Agricultural Economics 301, 310, 351, 469 .....	20 Hours
SCIENCE SELECTIONS: One course in Sociology required .....	25 Hours
FIRST MINOR: May be in any one department of the University ... (Recommended: Economics 326 and 330 or 334)	10 Hours
SECOND MINOR: Must be in one department of the College of Agriculture .....	10 Hours
SPECIAL REQUIREMENT: Agricultural Economics 421, 458 or 467 ...	10 Hours
ELECTIVES: Selected with Departmental approval .....	30 Hours

CONCENTRATION IN FARM MANAGEMENT

Science Option

JUNIOR AND SENIOR YEARS

This concentration is recommended for students who expect to become county agents, teachers of agriculture, farm operators, farm managers, land appraisers or do other work involving plans for organization and management of farms.

MAJOR: Agricultural Economics 301, 304, 310, 364 .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350 or Entomology 374, Plant Pathology 353 or 358 required .....	25 Hours
FIRST MINOR: May be in any one department of the University ...	10 Hours
SECOND MINOR: Agronomy 320 or 321 and 353 or 356 or 458 .....	10 Hours
SPECIAL REQUIREMENTS: Agricultural Economics 351, 402, 421, 458 .....	20 Hours
ELECTIVES: Selected with Departmental approval .....	20 Hours

AGRICULTURAL ECONOMICS

104. FARM ENTERPRISES. 3 hours. *Mr. Frazier and The Staff.*

A study of various enterprises with emphasis upon methods used in calculating receipts, costs and income in economic planning.

110. RURAL ECONOMICS. 3 hours. *Mr. Brannen and The Staff.*

Introduction to economics of agriculture, student orientation to entire field of agricultural economics, application of economics to agriculture problems.

301. FARM ORGANIZATION AND MANAGEMENT. Three lectures and two laboratory periods. Prerequisites: Agricultural Economic 104 and 110, Agronomy 101, Animal Husbandry 101, and Mathematics 100. *Mr. Frazier or Mr. Proctor.*

A scientific approach to the study of individual farm programs for the purpose of determining methods to be used for increasing farm income.

304. ECONOMICS OF AGRICULTURAL MARKETING. Prerequisites: Agricultural Economics 110. *Mr. Frazier, or Mr. Thompson.*

A general course in marketing farm products, analyzing marketing functions and institutions involved in marketing.

310. ECONOMIC PRINCIPLES IN AGRICULTURE. Prerequisites: Agricultural Economics 110, or equivalent, and Mathematics 100. *Mr. Proctor.*

The principles of economics as applied to production, distribution, prices, credit, taxation, demand, supply and comparative advantage.

351. **AGRICULTURAL CREDIT.** Prerequisites: Agricultural Economics 110, Mathematics 100 and Political Science 101. *Mr. Proctor.*

Principles of finance applied to farm credit organizations. Practices and principles of financing individual farms.

364. **LAND ECONOMICS.** Prerequisites: Agricultural Economics 110, Agronomy 210 and Political Science 101. *Mr. Proctor.*

An appraisal of physical and economic causes of various uses of land and governmental policies to encourage optimum land use.

400. **COOPERATIVE BUSINESS ORGANIZATIONS.** Prerequisites: Agricultural Economics 304 and 310 or equivalent. *Mr. Thompson or Mr. Brown.*

Cooperative marketing, purchasing and services; including organizations, legislation, financing, management and philosophy.

401. **FARMER MOVEMENTS.** Prerequisites: Agricultural Economics 110, Political Science 101, and two senior division courses in Economics or Agricultural Economics. *Mr. Frazier.*

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.** Five lectures (with a few special field trips per quarter). Prerequisites: Agricultural Economics 301 and 364 or equivalent, Agronomy 321 or equivalent and Animal Husbandry 373. *Mr. Proctor or Mr. Wise.*

Analysis of economic facts of individual farm plans and formation of economic models which postulate optimum allocation of land, labor and capital as guides for maximum revenue.

403. **MARKETING LIVESTOCK AND LIVESTOCK PRODUCTS.** Prerequisites: Agricultural Economics 110, or equivalent, and one course in livestock production and consent of instructor. *Mr. Frazier.*

An economic study of livestock marketing with emphasis on functions of marketing, prices, regulations, and the institutions that implement the marketing of livestock.

408. **ECONOMICS OF AGRICULTURAL LABOR UTILIZATION.** Prerequisites: Agricultural Economics 110, 301, and 304 or equivalent and consent of the instructor. *Mr. Thompson.*

Work simplification for agricultural firms including the principles and techniques for improving layout, materials handling, work methods, job instruction, working conditions, crew organization and management.

421. **AGRICULTURAL ADJUSTMENTS AND RESOURCE DEVELOPMENT.** Prerequisites: Agricultural Economics 110 or equivalent and two Senior Division courses in Agricultural Economics or Economics. *Mr. Saunders.*

The application of fundamental economic principles in determining efficient adjustments in agricultural resource use consistent with economic growth, and changing technology and economic conditions.

458. **INTERMEDIATE ECONOMIC PRINCIPLES.** Prerequisites: Agricultural Economics 310, Mathematics 100, Economics 312 or equivalent and senior standing. *Mr. Padgett.*

The principles of competitive and imperfect markets in the allocation of consumer goods and inputs of factors of production in a stable, free enterprise economy.

467. **AGRICULTURAL PRICES.** Prerequisites: Agricultural Economics 110 and two senior division courses in Economics or Agricultural Economics. *Mr. Thompson and The Staff.*

An analysis of the principles of cause and effect of farm price fluctuations, the relative instability of farm prices, the development of theoretical concepts as tools of analysis in dealing with farm price problems.

469. **AGRICULTURAL FINANCE.** Prerequisites: Agricultural Economics 110, two senior division courses in Economics or Agricultural Economics and consent of the instructor. *Mr. Thompson or Mr. North.*

A study of financial problems of agricultural businesses, including: budgetary analysis of financial requirements, sources of funds, discounting management, risk reduction, and taxes.

## GRADUATE COURSES

808. **AGRICULTURAL ECONOMICS, THEORIES AND PROGRAMS.** Prerequisites: Three senior division courses including Agricultural Economics 458, Economics 334, 406 or equivalent. *Mr. Proctor or Mr. North.*

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.)



809. **ADVANCED AGRICULTURAL PRICE ANALYSIS.** Prerequisites: Agricultural Economics 467, Economics 312 or equivalent and consent of instructor. *Mr. Thompson.*

Price theory reconciled with problems of collecting and analyzing price data including sources and methods of collecting data, projecting trends, simple and multiple regression, matched pairs analysis, and sampling.

821. **AGRICULTURAL PROGRAMS AND POLICY.** Prerequisites: Agricultural Economics 421 and 458 or equivalent, or Economics 312 and 406 or equivalent. *Mr. Saunders.*

An analysis of alternative governmental programs and policies as they relate to the solution of specific agricultural problems.

830-831. **AGRICULTURAL ECONOMICS RESEARCH.** 5 hours each. Prerequisites: Thirty or more credit hours in agricultural economics or related fields at the senior or graduate level.

Methodology, techniques and guidance for individual research in problems of agricultural economics.

## DEPARTMENT OF AGRICULTURAL EDUCATION

(Peabody Hall, North Campus)

Head: Tolbert. Staff: Duncan, Lester, O'Kelley.

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 employed in many specialized positions in the fields of agriculture and education. Such positions capitalize on the technical and professional skills of these graduates for application in various selling, promotional, administrative and research activities as well as all kinds of educational leadership projects.

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 local teacher of agriculture as well as a member of the University staff.

### CONCENTRATION IN AGRICULTURAL EDUCATION

**FRESHMAN-SOPHOMORE COURSES.** The following 23 hours of Junior Division agriculture courses are required for the Agricultural Education concentration: Agricultural Economics 104, 110, Agricultural Engineering 220, Poultry 160, Animal Husbandry 101 or Dairy 103, Agronomy 101, Agronomy 210.

#### JUNIOR AND SENIOR YEARS

**MAJOR:**

Education 335.1, 336.1, 347.1, 348.1 \_\_\_\_\_ 25 Hours

**SCIENCE SELECTIONS:** Education 304 or 455 and four of the following courses:

Bacteriology 350, Plant Pathology 353, Plant Pathology 358

Entomology 374, Sociology 431 or 433 \_\_\_\_\_ 25 Hours

FIRST MINOR: Selected from any department in the University subject to approval of adviser .....	10 Hours
SECOND MINOR: Agricultural Economics 301, 304 .....	10 Hours
SPECIAL REQUIREMENTS: Food Technology 409, Animal Hus- bandry 373, Education 349, Agricultural Engineering 203, 207, Forestry 394, Education 103 (1 hour) .....	29 Hours
ELECTIVES .....	6 Hours

### COURSES IN THE COLLEGE OF EDUCATION WITH MAJOR IN AGRICULTURAL EDUCATION

#### 304. EDUCATIONAL PSYCHOLOGY. *Selected members of the staff.*

Application of psychology to problems of child growth and development, learning, motiva-  
tion, measurements, personality adjustment and mental hygiene, and individual differences.

#### 335.1. CURRICULUM PLANNING. Prerequisites: Education 304 or 455 and consent of instructor. *Mr. O'Kelley and Mr. Tolbert.*

Determining curriculum content and planning instructional programs in vocational agri-  
culture for high school and adult groups based upon their needs and interests. Directed  
observation in selected schools.

#### 336.1. TEACHING PROCEDURES. Prerequisites: Education 304 or 455, 335.1, and consent of instructor. *Mr. O'Kelley and Mr. Tolbert.*

Study and evaluation of teaching procedures and techniques which might be used in  
teaching vocational agriculture to high school and adult groups. Directed observation and  
planning for apprentice teaching.

#### 346.1, 347.1, 348.1. APPRENTICE TEACHING. 15 hours. Prerequisites: Edu- cation 304 or 455, 335.1, and 336.1. *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. During this period they are carefully supervised  
in dealing with the problems of teaching vocational agriculture.

#### 349. SEMINAR IN EDUCATION. 3 hours. Prerequisite: Apprentice Teach- ing. *Mr. O'Kelley and Mr. Tolbert.*

A seminar dealing with problems emerging from experiences in apprentice teaching.  
Emphasis will be placed upon the planning of school programs and the place and responsibility  
of the teacher in the school.

### GRADUATE COURSES

#### 671. ADULT EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Mr. O'Kelley and Mr. Tolbert.*

The primary purposes 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.

#### 763. PROBLEMS IN VOCATIONAL EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Mr. O'Kelley and Mr. Tolbert.*

Designed to meet the needs of experienced teachers of agriculture who want additional  
training in specific problems of teaching. 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. *Mr. O'Kelley and Mr. Tolbert.*

Designed for teachers of vocational agriculture who desire guidance in improving teaching  
procedures. Consideration is given to the development of curricula based on the needs and  
interest of students, 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. O'Kelley and Mr. Tolbert.*

The primary purposes are: (1) to guide teachers, supervisors, and administrators to develop  
the ability to evaluate departments and programs of vocational education; (2) to guide  
teachers in the development of methods and techniques for evaluating their own instruction.

#### 773. SUPERVISION OF VOCATIONAL TEACHING. Prerequisites: Four courses in education and consent of the instructor. *Mr. O'Kelley and Mr. Tolbert.*

The primary purposes are: (1) to develop a philosophy of teacher education, (2) to  
discover problems in vocational teacher education in Georgia, (3) to determine relative  
emphasis that each teacher training agency should place upon solution of the several problems,  
and (4) to project plans for an apprentice training program.

#### 921. LABORATORY IN APPLIED EDUCATION. Prerequisites: Four courses in education and consent of major professor. *Mr. O'Kelley and Mr. Tolbert.*

Designed to provide opportunities for advanced students to undertake functional studies  
of problems in education significantly related to their professional tasks. For most  
students it will involve supervised field work.

## DEPARTMENT OF AGRICULTURAL EXTENSION

(Agricultural Extension Building, South Campus)

Head: Lancaster. Staff: Agricultural Extension Service Staff.

The concentration offered by this Department is designed for men and women who wish to prepare for Agricultural Extension Service careers. It is open to men pursuing the B.S.A. curriculum in the College of Agriculture, and to women in the School of Home Economics.

Students who choose this concentration, both men and women, must complete all freshman and sophomore courses in their respective degree-course programs. Upon completion of these requirements, they are to prepare, in keeping with the requirements of their respective concentrations, a program for their junior and senior years, which must be approved by their major professor.

The concentration which follows this introductory statement sets forth the requirements for students in the College of Agriculture who wish to meet the qualifications for becoming a county agent. Only those students who are farm-reared and have had adequate, practical farm experience will be permitted to pursue this training program.

Two or more of the courses included in the major, one of which shall be Agricultural Extension 313, must, normally, be taken during the junior year. This will make it possible to provide for one summer's field experience, under supervision, to be completed prior to registering for Agricultural Extension 314, which is a course that may be taken only during the senior year. Field experience for a period of two or more months, under an approved county agent or some other Extension Service worker is desirable in this concentration. No college credit will be given for field experience. However, those taking this concentration, and who are selected for field training, will be paid a nominal salary during the period of training.

### CONCENTRATION IN AGRICULTURAL EXTENSION

#### Science Option

MAJOR: Agricultural Extension 313, 314, Sociology 431, Education 455 .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Economics 312, Plant Pathology 353, Entomology 374 .....	25 Hours
FIRST MINOR: Agronomy 320 or 321, Agronomy 356 .....	10 Hours
SECOND MINOR: May be in one department in the University .....	10 Hours
SPECIAL REQUIREMENTS: Journalism 368, Agricultural Extension 401 .....	10 Hours
ELECTIVES: To be selected with the objective of providing a well- rounded program for the individual. Must be approved by the major professor. May be chosen from the offerings of any Department in the University .....	20 Hours

### CONCENTRATION IN AGRICULTURAL EXTENSION

#### Administration Option

MAJOR: Agricultural Extension 313, 314, Education 455, Soci- ology 431 .....	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467 .....	15 Hours

BUSINESS ADMINISTRATION: 110, 370 and additional 10 hours ap- proved by faculty adviser _____	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Entomology 374 _____	10 Hours
SPECIAL REQUIREMENTS: Mathematics 356 or Economics 312, Agricultural Economics 469 or Economics 330 _____	10 Hours
ELECTIVES: To be selected with approval of faculty adviser _____	30 Hours

### AGRICULTURAL EXTENSION

313. AGRICULTURAL EXTENSION ORGANIZATION AND PROCEDURES. Pre-requisites: Two or more senior division courses. *Mr. Lancaster and The Staff.*

Philosophy, procedures, and practices of Extension Service work in agriculture and home economics; organization, administration, and financing; relationships with cooperating and related organizations and agencies: qualifications, duties, and responsibilities of Extension Service workers.

314. AGRICULTURAL EXTENSION SERVICE PROGRAMS. Prerequisite: Agricultural Extension 313. *Mr. Lancaster and The Staff.*

Scope and nature of Extension Service programs at national, state, and county levels; emphasis upon techniques, policies, and procedures for developing Extension Service programs as basis for work of county and home demonstration agents; activities involved in carrying out programs; evaluation of efforts and results obtained.

401. FARMER MOVEMENTS. Prerequisites: Agricultural Economics 104 and 110. *Mr. Frazier.*

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.

501\*. PUBLIC RELATIONS IN EXTENSION WORK. 3 hours. *The Staff.*

The role of public relations in educational and governmental institutions: development of a public relations program for Cooperative Extension Work: Enumerating and describing the specific "Publics" to which the institution has responsibility.

502\*. FAMILY PROBLEMS IN LIVING AND FINANCIAL MANAGEMENT. 2 hours. *The Staff.*

A study of the economy in which the American family lives; incomes, expenditures, security savings; legal facts relating to financial planning; improvement of money management in the home.

503\*. EFFECTIVE USE OF INFORMATION MEDIA IN EXTENSION WORK. 2 hours. *The Staff.*

An analysis and application of the principles of human behavior that have a direct bearing on Extension Instruction. Consideration is given to relevant contribution from the fields of educational, industrial, business and social psychology.

504\*. PRINCIPLES AND PROCEDURES IN THE DEVELOPMENT OF 4-H CLUB WORK. 3 hours. *The Staff.*

The principles and procedures in planning and conducting 4-H Club programs and activities; selecting projects; selecting, training, and using volunteer leaders; working with and through organizations.

505\*. COMMUNICATION IN EXTENSION WORK. 2 Hours. *The Staff.*

The use of communications media in Extension work with special emphasis on Radio and Television.

506\*. ADMINISTRATION AND SUPERVISION IN EXTENSION. 3 hours. *The Staff.*

The principles of administration and supervision and their application to the Cooperative Extension Service.

509\*. EXTENSION EVALUATION. 3 hours. *The Staff.*

Techniques of evaluating effectiveness of programs, methods, educational activities and personnel of the Agricultural Extension Service. Emphasis is placed on clarifying objectives, sampling procedures, analysis, interpretation, presentation and use of data.

### GRADUATE COURSES

707. PROGRAM BUILDING IN EXTENSION. *Mr. Lancaster.*

A study of the basic problems, principles and procedures involved in Program Development in Cooperative Extension Work.

708. AGRICULTURE EXTENSION ADMINISTRATION. *Mr. Lancaster.*

A seminar in the organization, administration, operation, and evaluation of the Cooperative Extension Service and its Educational programs.

\*Courses taught only in the Special Winter Session for Extension workers for both undergraduate and graduate credit.

## DEPARTMENT OF AGRONOMY

(Conner Hall, South Campus)

Head: Rogers, Staff: Adams, Beaty, Bertrand, Brown, Douglas, Elkins, Giddens, Harris, Morris, McCreery, Pallas, Parkman, Perkins, Welch.

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.

Students majoring in this department are prepared for general farming, for farm managers, and for employment in various fields of agriculture, such as the U. S. Department of Agriculture, experiment station workers, college teachers, extension work in crops and soils, seed industry, cotton specialization, soil conservation, soil survey, and the fertilizer industry. Provision is made for those who continue their training as graduate students in either crops or soils.

The fertilizer and seed industry of the State have provided funds for scholarships to be awarded outstanding students majoring in Agronomy. These scholarships are: Georgia Plant Food Educational Society—Four scholarships of \$100 each, Southern Nitrogen Company \$250, Georgia Crop Improvement Association \$249, Georgia Seedsmen Association \$249, Cotton Producers Association \$249, Dublin Bonded Warehouse \$249, Georgia Cotton Compress and Warehouse Association \$250. Two scholarships of \$100 have been awarded anonymously. Students interested in applying for these scholarships should contact the head of the Agronomy Department.

Students majoring in the Department of Agronomy should contact the Head of the Department and be assigned to an adviser. The student will plan his program of study in consultation with his adviser. All courses and electives must be approved by the adviser. It is usually possible for students to obtain work, on an hourly basis, with the research staff in the department.

Four concentrations are offered with electives in related fields.

### I. CONCENTRATION IN GENERAL AGRONOMY

#### Science Option

This concentration is designed for students who plan to farm or 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, 321, 356, 458 _____	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Botany 375, 380, Plant Pathology 353, 358 _____	25 Hours
FIRST MINOR: Any department in the University (Must be approved by the student's adviser) _____	10 Hours
SECOND MINOR: Agronomy 332, 454 _____	10 Hours
SPECIAL REQUIREMENTS: Agricultural Economics 301, 364. Botany 305, 323, Plant Pathology 356, Geology 125, Sociology 431 _____	20 Hours
GENERAL ELECTIVES _____	20 Hours

### II. CONCENTRATION IN GENERAL AGRONOMY

#### Administration Option

This course of study is planned to give a student training in agriculture and in the field of business administration. A student graduating with a major in this concentration is prepared to enter various types of agri-

cultural businesses. These include fertilizer and seed administration and sales as well as other forms of private businesses serving the farmer or processing farm products.

MAJOR: Agronomy 324, 356, and 10 hours from Agronomy 320, 321, 332, 458 .....	20 Hours
SCIENCE SELECTIONS: 10 hours from Plant Pathology 353, 358, Entomology 374 .....	10 Hours
FIRST MINOR: Business Administration 110, 370, plus 10 additional hours .....	20 Hours
SECOND MINOR: Agricultural Economics 304, 408, 467 .....	15 Hours
SPECIAL REQUIREMENTS: Mathematics 356 or Economics 312 and Economics 330 or Agriculture Economics 469 .....	10 Hours
ELECTIVES .....	30 Hours

### III. CONCENTRATION IN AGRONOMIC SCIENCE

#### Science Option

This concentration is designed primarily for students who plan to enter graduate school to continue their training in either plant science or soil science.

MAJOR: Twenty selected hours in Agronomy .....	20 Hours
SCIENCE SELECTIONS: Twenty-five hours to be selected from: Plant Pathology 353, Mathematics 101, 210, 254, 255, Botany 305, 323, 375, Geology 125, 321, 323, Chemistry 223, 380, Physics 127, 128, 129 .....	25 Hours
FIRST MINOR: Plant Pathology 358, Entomology 374 .....	10 Hours
SECOND MINOR: Bacteriology 350, Botany 380 .....	10 Hours
SPECIAL REQUIREMENTS AND ELECTIVES .....	40 Hours

### IV. CONCENTRATION IN SOIL CONSERVATION

#### Science Option

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.

MAJOR: Agronomy 356, 454, 458, 460 .....	20 Hours
SCIENCE SELECTIONS: Botany 305, 375, 380, Mathematics 101, Geology 125 .....	25 Hours
FIRST MINOR: Agronomy 320, 321 .....	10 Hours
SECOND MINOR: Agricultural Engineering 111, and 5 additional hours in Agricultural Engineering .....	10 Hours
SPECIAL REQUIREMENT: Agricultural Economics 364, Agronomy 425, and 324 or 332, Plant Pathology 358 .....	20 Hours
GENERAL ELECTIVES .....	20 Hours

### AGRONOMY

#### 101. FIELD CROP PRODUCTION. 3 hours. *Mr. Brown*, and *Mr. Rogers*.

A general survey of the principles involved in the economical production of the more commonly grown field and forage crops. Laboratory exercises will include plant and seed identification in the field and laboratory.

#### 210. PRINCIPLES OF SOILS. Prerequisites: Chemistry 121-122. *Mr. McCreery*, *Mr. Giddens*, and *Mr. Perkins*.

Soil formation; physical, chemical, and biological properties of soils; commercial fertilizers, lime and organic matter; and soil management practices, with particular reference to cultivated soils.

#### 300. COMMERCIAL COTTON CLASSING. (Good eyesight and color perception necessary). *The Staff*.

Cotton grades and staples according to Universal Standards for American Upland Cotton. Practices consist of grading and stapling several thousand samples of cotton.

320. SOUTHERN FIELD CROPS. Prerequisites: Agronomy 101, 210, and Botany 122. *Mr. Douglas.*

Production, harvesting and utilization of the major cash crops of Georgia are discussed. Laboratory exercises deal with botanical and morphological characteristics of the crops and the fundamentals of grading and classing. Field trips to the College Experiment Station are made for the purpose of observing current research.

321. FORAGE AND PASTURE CROPS. Prerequisites: Agronomy 101, 210, and Botany 122. *Mr. Brown and Mr. Beaty.*

Study of the adaptation, requirements, and culture of the important grasses and legumes and their use as pasture, hay, silage, and soilage.

324. WEEDS AND SEEDS. Prerequisites: Agronomy 101, 210, and Botany 122. *Mr. Brown.*

Beneficial and harmful effects of weeds. Principles of weed control, including the use of chemicals and cultural practices. Seed certification, analysis, and germination. Identification of weeds in seed and plant form.

332. CEREAL PRODUCTION. Prerequisites: Agronomy 101, 210, and Botany 122. *Mr. Douglas.*

Distribution, classification, production and uses of corn, small grains, and grain sorghum. Laboratory exercises include morphology of cereals from seedling to mature plant.

356. FERTILIZERS. Prerequisite: Agronomy 210. *Mr. Morris.*

Sources, manufacture, and uses of commercial fertilizers, and the principles involved in the application of fertilizers to crops. Plant nutrient deficiency symptoms and means of correcting these deficiencies.

401. SEED TECHNOLOGY. Prerequisites: Agronomy 324, Chemistry 261 and Botany 380, or equivalent. *Mr. Parkman.*

Seed and seedling structure; viability and vigor of seed; physiology of germination; dormancy; hard seeds; moisture determination; storage and longevity; sampling.

423. (STATISTICS) PRINCIPLES OF EXPERIMENTAL METHODS. Prerequisites: Agronomy 321 and 356, or equivalent. *Mr. Morris.*

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.

425. PASTURE DEVELOPMENT AND MANAGEMENT. Prerequisites: Agronomy 321 and 356, or equivalent. *Mr. Beaty.*

Fundamental principles of growth and production of pasture plants and mixtures; types of pastures and pasture vegetation; principles of establishment and management for economical production and soil conservation.

427 a-b-c. AGRONOMY SEMINAR. 1 hour each. *The Staff.*

Topics relating to crops and soils to be discussed, including literature review and results pertaining to local experimental work. Required of senior students. Students and faculty to participate.

454. SOIL MORPHOLOGY AND CLASSIFICATION. Prerequisites: Two senior division courses in Agronomy or equivalent. *Mr. Perkins.*

Morphological characteristics of soils, factors influencing these characteristics and classification of soils of the U. S. Several full-day field trips will be required at the student's expense. (Total cost about \$25).

458. LAND USE AND SOIL CONSERVATION. Prerequisites: Agronomy 321 and 356, or equivalent. *Mr. Giddens.*

Soil management practices pertaining to efficient land use, and the application of these practices to farm planning and soil conservation.

459. SOIL FERTILITY. Prerequisites: Agronomy 356 and 458, or equivalent. *Mr. Morris.*

Soil conditions affecting availability of plant nutrients, methods of determining soil fertility and deficiency 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 454 and Chemistry 380, or equivalent. *Mr. McCreery.*

Physical properties, moisture relations, and methods of physical analysis of soils.

461. (BACTERIOLOGY) SOIL MICROBIOLOGY. Prerequisites: Agronomy 458 and Bacteriology 350 or equivalent. *Mr. Giddens.*

Study of characteristics of microorganisms inhabiting the soil. Activities of soil microorganisms such as nitrogen fixation, carbon cycle, and other factors affecting soil fertility are especially stressed.

## GRADUATE COURSES

803. FACTORS AFFECTING GROWTH AND REPRODUCTION IN CROPS. Prerequisites: Agronomy 321, 356, Botany 380 or equivalent. *Mr. Rogers.* (Not offered 1964-65).

Analysis of factors affecting growth, differentiation, and reproduction of plants; the influence on competition, succession and plant communities; practical problems are discussed in light of current research.

810. **ADVANCED AGRONOMY SEMINAR.** One hour per quarter for one to six quarters. Prerequisite: Graduate standing. *The Staff.*

Topics relating to research in crops and soils, including literature review and results pertaining to local experimental work. Required of all graduate students.

812. (PLANT BREEDING) **SPECIALIZED PLANT BREEDING.** Prerequisites: Plant Pathology 353, 402, and one senior division course in crop production. *Mr. Brown, Mr. Douglas, Mr. Fleming, and Mr. Rogers.*

Conducted cooperatively by the Department of Agronomy and Department of Plant Pathology and Plant Breeding. A combination of lectures and laboratory periods in the greenhouse and experimental field with emphasis on fundamental practices and techniques used in the development of farm-crop varieties and hybrids. Opportunity for student to receive personal supervision.

821-822. **SPECIAL PROBLEMS IN SOIL SCIENCE,** Five hours each. Prerequisite: Graduate Standing. *The Staff.*

The planning, completion and reporting of short-time problems in one of the soil sciences, other than thesis, conducted in the library, laboratory, greenhouse or field.

823-824. **SPECIAL PROBLEMS IN PLANT SCIENCE.** Five hours each. Prerequisite: Graduate standing. *The Staff.*

The planning, completion, and reporting of short-time problems in one of the crop sciences, other than thesis, conducted in the library, laboratory, greenhouse or field.

827. (STATISTICS) **EXPERIMENTAL DESIGN.** Prerequisite: Agronomy 423 or equivalent. *Mr. Morris.*

A continuation of Agronomy 423, including the design and analysis of complex experiments with a large number of treatments. This course is designed to meet the needs of students in plant sciences.

852. **ADVANCED SOIL FERTILITY.** Prerequisite: Agronomy 459 or equivalent. *Mr. Morris.* (Not offered 1964-65).

Physical, chemical, and bacteriological aspects of soil fertility as related to plant growth.

853. **METHODOLOGY IN SOIL CHEMISTRY.** Prerequisites: Agronomy 459 and Chemistry 380, or equivalent. *Mr. McCreery.*

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 MORPHOLOGY AND GENESIS.** Prerequisites: Agronomy 454 and 459, or equivalent. *Mr. Perkins.*

Morphological features of soils, factors influencing these features, and concepts and theories of origin and development of soils with emphasis on clay mineralogy.

860. **SOIL PHYSICAL FACTORS AND PLANT GROWTH.** Prerequisites: Botany 380 and Agronomy 460. *Mr. Bertrand.*

Consideration will be given to certain fundamental relations resulting when plants are subjected to a varying physical environment. Special emphasis will be placed upon the effects of soil moisture as related to plant growth, nutrient uptake and other physiological processes.

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. degree. Prerequisite requirements depend upon research problem and consent of major professor. Available by arrangement any quarter to any graduate student majoring in agronomy.

## DEPARTMENT OF ANIMAL HUSBANDRY

(Livestock - Poultry Building, South Campus)

Head: Long. Staff: Carmon, Cullison, Grooms, Lassiter, Sewell, Warren.

The courses offered by the Department of Animal Husbandry are designed to give students basic training in the production of beef cattle, sheep, and swine. 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, farm managers, herdsmen, 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.

## A SUGGESTED PROGRAM-OF-STUDY

FOR

## ANIMAL HUSBANDRY MAJORS

Science Option

FALL	WINTER	SPRING
<u>FRESHMAN</u>		
ENG 101	ENG 102	PCS 120
CHM 121	CHM 122	DHU 103
AHY 101	MAT 100	CHM 261
AGR 1	AEC 110	AEN 365
MIL	MIL	MIL
PED	PED	PED
<u>SOPHOMORE</u>		
BOT 121	SPC 108	ZOO 226
POL 101	ZOO 225	AGY 210
PHU 160	ELECTIVE	AEN 280
AGY 101	MIL	BAC 350
MIL	PED	MIL
PED		PED
<u>JUNIOR</u>		
FDP 368	AHY 350	AHY 366
VET 309	VET 310	VET 311
AHY 358	PAT 358	ELECTIVE
	ELECTIVE	
<u>SENIOR</u>		
AHY 372	AHY 361	AHY 360
AHY 373	AGY 321	AGY 356
ELECTIVES	ELECTIVES	ELECTIVES

ADMINISTRATION OPTION—Omit: AHY 366, VET 309, 310 and 311.  
Add: AEC 304, 408, 467; BBA 110, 370, ECN 312, 330.

## ANIMAL HUSBANDRY

101. INTRODUCTORY ANIMAL HUSBANDRY. 3 hours. *Mr. Grooms.*

A study of basic facts, principles, and terminology pertaining to beef cattle, sheep, swine, horses and mules.

350. TYPES, BREEDS, CLASSES, AND GRADES OF LIVESTOCK. 3 hours. Prerequisite: Animal Husbandry 101. *Mr. Grooms.*

A study of the characteristics of the different types, breeds, classes, and grades of livestock.

356.1, 356.3, 356.4. 1 hour each. FITTING AND SHOWING BEEF CATTLE, SHEEP, AND SWINE, (respectively). Prerequisite: Animal Husbandry 101. *Staff.*

A laboratory course designed to train students in the proper fitting and showing of the various breeds and classes of beef cattle, sheep, and swine for show or sale.

358. FUNDAMENTALS OF ANIMAL NUTRITION. Prerequisite: Chemistry 261. *Mr. Lassiter.*

A study of the fundamental principles of animal nutrition.

360. BEEF CATTLE PRODUCTION. Prerequisite: Animal Husbandry 372, 373, or permission of instructor. *Mr. Long.*

A study of the breeding, feeding, and management of beef cattle.

361. SWINE PRODUCTION. Prerequisite: Animal Husbandry 372, 373, or permission of instructor. *Mr. Sewell.*

A study of the breeding, feeding, and management of swine.

364. SHEEP PRODUCTION. Prerequisite: Animal Husbandry 372, 373, or permission of instructor. *Mr. Warren.*

A study of the breeding, feeding, and management of sheep.

366. LIVESTOCK JUDGING AND SELECTION. 3 hours. Prerequisite: Animal Husbandry 350 or permission of the instructor. *Mr. Grooms.*

A study of form and function as it influences efficiency of production in meat animals. Training and experience in the evaluation and oral comparison of livestock. From the students in this course will be chosen the team to represent the University in the Annual Spring Inter-collegiate Livestock Judging Contest.

372. ANIMAL BREEDING. Prerequisites: Animal Husbandry 101 and Plant Pathology 358. *Mr. Warren.*

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 101 and Chemistry 261, or permission of instructor. *Mr. Cullison.*

A study of the composition and properties of the important feed stuffs and their use in the feeding of farm livestock.

376. ADVANCED LIVESTOCK JUDGING AND SELECTION. 3 hours. Prerequisite: Animal Husbandry 366 or permission of instructor. *Mr. Grooms.*

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 Livestock Judging Contests.

402. ADVANCED ANIMAL NUTRITION. Prerequisites: Animal Husbandry 358, Veterinary Physiology 310, or equivalent. *Mr. Lassiter.*

A study of the chemical and physical properties of feed nutrients; their metabolism, utilization, functions, requirements and effects of deficiencies.

404. THE GENETIC IMPROVEMENT OF FARM ANIMALS. Prerequisites: Animal Husbandry 372 or equivalent and one other senior division course in Animal Husbandry or closely related field. *Mr. Warren.*

The development of practical and genetically sound programs involving the study and application of genetic principles underlying selection, systems of mating and performance testing.

405. PHYSIOLOGY OF REPRODUCTION IN FARM ANIMALS. Prerequisites: Animal Husbandry 372 or equivalent, Veterinary Physiology 310, and at least one other senior division course in Animal Husbandry or closely related field. *Mr. Warren.*

A study of the physiology of reproduction of farm animals, including the advanced aspects of the technological control of the reproductive processes.

573. ADVANCED LIVESTOCK FEEDING. Prerequisite: Animal Husbandry 373 or permission of the instructor. Limited to candidates for advanced degrees in Education or Agricultural Extension. *The Staff.*

An advanced course designed to provide current information relative to recent developments in the field of animal nutrition and their impact on livestock feeding, as well as the scientific principles on which they are based.

## GRADUATE COURSES

801-802. SPECIAL PROBLEMS IN ANIMAL HUSBANDRY. 5 hours each. Prerequisites: Animal Husbandry 402 or 404 or 405 and permission of instructor. *Mr. Carmon, Mr. Cullison, Mr. Lassiter, Mr. Long, Mr. Sewell, 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. Lassiter.*

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.

806. MINERALS AND VITAMINS IN THE NUTRITION OF FARM ANIMALS. Prerequisites: Animal Husbandry 402 and Veterinary Physiology 311 or equivalent. *Mr. Sewell.*

A detailed study of the roles of individual minerals and vitamins in the nutrition of cattle, sheep and swine with particular emphasis on reports in current literature.

810 a-b-c. SEMINAR IN ANIMAL HUSBANDRY. 1 hour each. Prerequisites: Animal Husbandry 360, 361 and 372 or equivalent. *The Staff.*

Weekly meetings devoted to discussions of current problems and research in the field of Animal Husbandry.

826. (STATISTICS) STATISTICAL METHODS IN ANIMAL SCIENCE. Prerequisites: Agronomy (statistics) 423-623 or equivalent. *Mr. Carmon.*

A study of special experimental designs and statistical procedures particularly applicable to animal research.

828. POPULATION GENETICS. Prerequisites: Animal Husbandry 826 or equivalent. *Mr. Carmon.*

Statistical analysis of the genetic structure of animal populations and a study of the genetic forces responsible for the changes in these populations.

930. THESIS 5 to 20 hours. Prerequisites: Two or more graduate courses in Animal Husbandry. Open only to Animal Husbandry majors. *The Staff.*

The carrying out of laboratory and library research and the development of a thesis bearing on the subject under investigation.

## DEPARTMENT OF BOTANY

(Biological Science Building, South Campus)

Head: Van Fleet, Staff: Beck, Brown, Carlton, Duncan, Edmisten, James, Michel, Plummer, Mulcahy, Webb, Westfall.

A major in Botany is highly desirable for students in the College of Agriculture interested in the plant sciences. Knowledge of plant structures, processes, environmental requirements, and classification derived from such a course of study is basic to Agronomy, Horticulture, Plant Pathology, and Plant Breeding, and is essential as a foundation for graduate work in these fields.

Students who specialize in Botany have the academic requirements for positions with the United States Department of Agriculture and other Federal agencies. When taken adjunctively with another major in the plant sciences, a major in Botany is valuable as preparation for numerous State and Federal agencies.

MAJOR: Botany 305, 323, 375, 380 .....	20 Hours
SCIENCE SELECTIONS FROM: Bacteriology 350, Entomology 374, Chemistry 261, Plant Pathology 353, Plant Pathology 358 or Zoology 370 .....	25 Hours
FIRST MINOR: To be approved by Head of Department .....	10 Hours
SECOND MINOR: Must be in the College of Agriculture .....	10 Hours
ELECTIVES .....	40 Hours

## BOTANY\*

110. PLANT BIOLOGY AND MAN. No credit will be allowed for Botany 110 if credit is shown for Botany 121. *The Staff.*

Basic studies of life, employing a variety of plant materials and emphasizing the relationship of structures and processes to the welfare of man.

111. PLANT BIOLOGY AND MAN. (Continued). No credit will be allowed for Botany 111 if credit is shown for Botany 122. *The Staff.*

A study of the reproduction, heredity, evolution, and environmental relationships of representative groups of plants, emphasizing economic and cultural applications.

121. ELEMENTARY BOTANY. Not open to students who have credit for Botany 110. 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.

\*Students may be held responsible for breakage in laboratory courses.

122. **ELEMENTARY BOTANY** (continued). Not open to students who have credit for Botany 111. 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.

H-123. **ELEMENTARY BOTANY. (HONORS.)** Not open to students with credit in Botany 110-111 or 121-122. 5 hours. Available for honor students only. This course replaces Botany 110 and 111. Five lecture, laboratory and discussion periods. *Mr. Brown.*

Biological concepts in the analysis of plants.

302. **SPECIAL PROBLEMS IN BOTANY.** Independent research and research participation in selected problems. Prerequisites: two senior division courses in Botany. *The Staff.*

305. **IDENTIFICATION OF FLOWERING PLANTS.** Five two-hour lecture—laboratory periods with two all-day field trips. Prerequisites: None, Botany 110-111 or Botany 121-122 are recommended. Spring Quarter. *Mr. James and Mr. Mulcahy.*

Terminology and procedure in the identification of flowering plants.

306. **IDENTIFICATION OF TREES AND SHRUBS.** Five two-hour lecture—laboratory periods. Prerequisites: None, Botany 110-111 or Botany 121-122 are recommended. Fall Quarter. *Mr. James.*

Identification of trees and shrubs including identification in winter condition.

323. **ELEMENTARY PLANT ANATOMY.** Five two-hour laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122. *Mr. Carlton.*

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 110-111 or Botany 121-122. *Mr. Carlton.*

Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant materials for microscopic study.

375. **PLANT ECOLOGY.** Three one-hour lecture discussion periods, two double periods of field trips or laboratory per week, and/or occasional week-end field trips. Prerequisites: Botany 121-122 or Botany 110-111. *Mr. Plummer, and Mr. Edmisten.*

Plant geography, community analysis, symbiosis, species populations, limiting factors, cycles, rhythms, and applied implications. Fall quarter: synecology; Spring quarter: autecology; Summer quarter: field trips.

380. **PLANT PHYSIOLOGY.** Three lectures and two double laboratory periods. Prerequisites: Botany 121-122 or Botany 110-111. *Mr. Beck.*

A survey of physiological processes occurring in economic plants and the conditions which affect these processes.

401. **PHYSIOLOGY OF WOODY PLANTS.** Three lectures and two double laboratory periods. Prerequisites: Botany 380 or Forestry 203, or Horticulture 308. *Mr. Brown.*

Special topics in water relations, nutrition, photosynthesis, shoot and root development, dormancy, cambial activity, and reproduction in woody plants.

471. **TAXONOMY OF SEED PLANTS.** Five double laboratory periods. Prerequisites: Botany 305 or equivalent and any other senior division course in botany or approved course in plant pathology, forestry, or geography.

Identification and classification of seed plants with emphasis on the flora of the southeastern states.

473. **IDENTIFICATION OF GRASSES.** Five double laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122 and two senior division courses in botany or approved courses in other plant sciences. *Mr. Duncan.*

Identification and classification of grasses with emphasis on structure and ecology. Numerous economically important species are included.

476. **VEGETATION OF NORTH AMERICA.** Six hours library-laboratory, three hours seminar per week and a week-end field trip. Spring Quarter. Prerequisites: Fifteen hours credit in Botany, Geology and Geography, or Agriculture. *Mr. Plummer.*

Theories of plant geography, climax formations, and the causes of contemporary vegetation. Includes floristics, indicator plants and problems in land utilization. Emphasizes eastern North America.

482. **NUTRITION OF GREEN PLANTS.** Two lectures and three double laboratory periods. Prerequisites: Botany 323 and 380. *The Staff.*

A study of the nutrition of the higher plants, including major and minor elements and deficiency symptoms.

510-511. **BIOLOGY FOR HIGH SCHOOL TEACHERS.** 10 hours. Three lectures and two double laboratory periods. Prerequisites: two senior division courses in the Biological Sciences. *Mr. Westfall.*

A two-course sequence for high school biology teachers or prospective teachers of high school biology enrolled in the College of Education. No credit for students majoring in the Biological Sciences.

520. **FIELD AND LABORATORY BOTANY.** Two lectures and three double laboratory periods and special field trips. Prerequisites: Botany 121-122 or equivalent and two senior division courses in botany or education.

Designed for teachers, emphasis on 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.

522. **ADVANCED FIELD AND LABORATORY BOTANY.** Two lectures and three double laboratory periods and special field trips. Prerequisite: Botany 520.

A second course primarily for teachers, emphasizing plant identification, environmental relationships, and plant distribution.

## GRADUATE COURSES

802 and 804. **PROBLEMS IN BOTANY.** 5 hours for each course. Special research projects under the direction of Staff members. Prerequisites: Two senior division courses in botany or approved courses in agriculture, geography, or forestry.

830. **PRINCIPLES OF RADIOISOTOPES.** (Agriculture 830). Two lectures and two three-hour laboratory periods. Winter quarter. Prerequisite: permission of the instructor.

Principles and techniques dealing with the application of nuclear radiations to plant sciences. Mr. Plummer, Coordinator for Botany.

831. **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 relationship.

840. **CYTOLOGY.** Two lecture and three double laboratory periods. Prerequisites: Zoology 401, 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.

842. **CYTOGENETICS.** Two lecture and three double laboratory periods. Prerequisite: Botany 840. 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.

850. **MORPHOGENESIS.** Three lectures and two double laboratory periods. Prerequisites: Botany 323, 380 and 831. *Mr. Brown.*

Experimental studies on meristems, polarity and relative growth phenomena, morphogenetic factors relating to differentiation and regeneration.

860. **AQUATIC PLANTS.** Three one-hour lectures and two double laboratory periods. Prerequisites: Botany 110-111 or Botany 121-122 and any two courses numbered above 300 in botany, entomology, or zoology which provide taxonomic training.

A study of the taxonomy, distribution, and ecology of aquatic plants, with emphasis upon fresh-water forms and habitats. Laboratory will be devoted mostly to study of aquatic plants in the field.

872. **ADVANCED TAXONOMY OF SEED PLANTS.** Three lectures and two two-hour laboratory periods. Prerequisites: Consent of instructor. Spring Quarter. *Mr. James* and *Mr. Mulcahy.*

Experimental approaches to problems in taxonomy dealing with the species and intraspecific taxa and the various methods employed to analyze and delimit these.

887. **ADVANCED PLANT PHYSIOLOGY.** Two hours lecture and three double laboratory periods per week. Prerequisites: Botany 380 and any other senior division courses in botany, chemistry, or plant pathology. *Mr. Beck* and *Mr. Michel.*

An evaluation of concepts in plant physiology with special attention to the methods employed in arriving at these concepts.

888. PLANT GROWTH AND DEVELOPMENT. Two hours lecture and three double laboratory periods per week. Prerequisites: Botany 380 and Organic Chemistry. *Mr. Michel.*

Study of factors influencing seed germination, plant growth, and floral development, with special emphasis on the compounds affecting these processes.

890. PLANT HISTOCHEMISTRY. Five lecture—demonstration periods. Prerequisites: Senior division courses in Botany and Chemistry. Approved by instructor. *Mr. Van Fleet.*

Enzyme localization and differentiation, the solution of problems and function, differentiation and ion selection by histochemical methods.

## DAIRY DEPARTMENT

(Dairy Building and Livestock - Poultry Building, South Campus)

Head: Henderson. Staff: Bennett, Cameron, Clifton, Fosgate, Miller, Roberts, Sheuring.

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.

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 manufacturing of ice cream, butter, cheese, and condensed milk.

Teaching and research laboratories for dairy production are in the Livestock-Poultry Building. These facilities are excellent, and have stimulated interest in graduate work. The dairy farm is located adjacent to the campus and provides a practical program of feed production and herd management for the benefit of students and visitors. The herd of purebred animals of two of the major dairy breeds is used for instruction of resident students, research in dairy production and serves as a demonstration to visitors.

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.

SCHOLARSHIPS. Several scholarships are available to students desiring to major in one of the programs of the dairy department. For information as to availability of scholarships, write the Head of the Dairy Department, University of Georgia, Athens.

CONCENTRATIONS. For students regularly enrolled in the University, the Dairy Department offers a variety of concentrations. Within the College of Agriculture a concentration is offered in dairy production under either the Administration or the Science option. Similarly a concentration is offered in dairy manufacturing under either of these options. In addition a concentration is offered in sanitary science. A detailed explanation of this program is included under the description of that concentration. A special concentration in dairy plant management is offered through the College of Business Administration. The programs outlined here may be altered to fit the needs of individual students.

## CONCENTRATION IN DAIRY PRODUCTION

## Science Option

MAJOR: Dairy 379, 390, 392, 394 .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358, Entomology 374, Veterinary Medicine 310, Sociology 431 .....	25 Hours
FIRST MINOR: Dairy 389, 396 .....	10 Hours
SECOND MINOR: Food Technology 300, 364 or Bacteriology 395, GENERAL ELECTIVES: To be approved by the Head of the Depart- ment .....	40 Hours

## CONCENTRATION IN DAIRY PRODUCTION

## Administration Option

MAJOR: Dairy 379, 390, 392, 394 .....	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467 .....	15 Hours
BUSINESS ADMINISTRATION: 110, 370 and 10 additional hours in Business Administration .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358 .....	10 Hours
SPECIAL REQUIREMENTS: Economics 312, 330 .....	10 Hours
ELECTIVES: To be selected with Departmental approval .....	30 Hours

## CONCENTRATION IN DAIRY MANUFACTURING

## Science Option

MAJOR: Dairy 350, 394, 395, 399 .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358, En- tomology 374, Sociology 431 and Economics 312 or Mathe- matics 356 .....	25 Hours
FIRST MINOR: Dairy 389, 396 .....	10 Hours
SECOND MINOR: Food Technology 300, 364 or Bacteriology 395, 409 .....	10 Hours
GENERAL ELECTIVES: To be approved by the Head of the Depart- ment .....	40 Hours

## CONCENTRATION IN DAIRY MANUFACTURING

## Administration Option

MAJOR: Dairy 350, 394, 395, 399 .....	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467 .....	15 Hours
BUSINESS ADMINISTRATION: 110, 370 and 10 additional hours in Business Administration .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Entomology 374 .....	10 Hours
SPECIAL REQUIREMENTS: Economics 312, 330 .....	10 Hours
ELECTIVES .....	30 Hours

## CONCENTRATION IN SANITARY SCIENCE

## Science Option

Trained personnel in the fields of milk, food, environmental and general sanitation are needed for employment by governmental public health and regulatory agencies. The need for more personnel as trained sanitarians in the above fields will become greater as our population increases. Many states, including Georgia, have laws which require all registered sanitarians to be college graduates with a minimum of 40 quarter hours in the natural sciences. Sanitarians have been chosen primarily from dairy manufacturing graduates. The concentration in Sanitary Science will provide an excellent training for students to secure broad and applied training for employment as milk, food, environmental and general sanitarians by county, state and federal regulatory agencies.

MAJOR: Dairy 350, 394, 395, 396 .....	20 Hours
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SCIENCE SELECTIONS: Bacteriology 350, Chemistry 451, Entomology 373, 376, Mathematics 356 or Economics 312 .....	25 Hours
FIRST MINOR: Dairy 389, Food Technology 395 .....	10 Hours
SECOND MINOR: Bacteriology 410, 422 .....	10 Hours
SPECIAL REQUIREMENTS: Agricultural Engineering 104, 105, Political Science 441, 442, 492 .....	19 Hours
ELECTIVES: To be selected in consultation with the department head or faculty adviser .....	21 Hours

### CONCENTRATION IN DAIRY PLANT MANAGEMENT

(Offered in the College of Business Administration)

For those students who wish to combine a technical knowledge of the dairy manufacturing industry with business administration training, the following special curriculum leading to the degree of Bachelor of Business Administration has been provided.

#### FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101, 102 .....	10	English 121 - 122 .....	10
Mathematics 100 .....	5	Elective .....	5
Chemistry 111, 112 .....	10	Bacteriology 350 .....	5
Economics 105, 106 .....	10	Political Science 101 .....	5
History 111, 112 .....	10	Business Administration 108 .....	3
Business Administration 101, 102 .....	2	Business Administration 110, 111 .....	10
Military 1 or Air Science 5 .....	6	Physical Science 101 .....	5
Physical Education 1 (for men) .....	0	Economics 133 .....	5
or		Military 2 or Air Science 6 .....	6
Physical Education 1 (for women) .....	5	Physical Education 2 (for men) .....	0
		or	
		Physical Education 2 (for women) .....	5
<b>Total</b> .....	<b>53</b>	<b>Total</b> .....	<b>54</b>

#### JUNIOR AND SENIOR YEARS

##### Marketing Sequence or Option

	Hours
Business Administration 351, 370 .....	10
Economics 312, 326, 330, 360, 386 .....	25
Management 352 .....	5
Marketing 560, 563, 564, 578 .....	20
Dairy 350, 389, 394, 395, 396, 399 .....	30
<b>Total</b> .....	<b>90</b>

##### Management Sequence or Option

Business Administration 351, 370 .....	10
Economics 312, 326, 330, 360, 386 .....	25
Management 352, 585, 595, 599 .....	20
Marketing 578 .....	5
Dairy 350, 389, 394, 395, 396, 399 .....	30
<b>Total</b> .....	<b>90</b>

## DAIRY

103. 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; feeding, breeding, judging, and selection of dairy cattle.

301-302-303. DAIRY SEMINAR. 1 hour each. *The Staff.*

Topical discussion of current problems and scientific work in dairying.



**350. DAIRY CHEMISTRY.** Prerequisite: Chemistry 121-122. *Mr. Sheuring.*

A basic study of the chemical and physical properties of milk; analysis of milk and milk products according to standard methods; functions and operations of a dairy control laboratory.

**356.5 DAIRY CATTLE FITTING AND SHOWING.** 1 hour. *Mr. Clifton.*

Credit will be given for preparation of animal and showing the animal in the Little International Livestock Show.

**358. FUNDAMENTALS OF ANIMAL NUTRITION.** Prerequisites: Zoology 226, Chemistry 261. *Mr. Fuller and Mr. Lassiter.*

A study of the fundamental principles of animal nutrition.

**379. DAIRY HERD OPERATIONS.** Prerequisites: Dairy 103, Animal Husbandry 373. *Mr. Clifton.*

All phases of dairy herd management with special emphasis on the following: herd appraisal, auction sales; classification, health programs; applications for registry and health certificates; intra- and inter-state shipments of animals; dairy farm plans and practices.

**380. DAIRY CATTLE JUDGING.** 3 hours. *Mr. Clifton.*

A course planned to offer instruction in the judging of dairy cattle according to type and conformation.

**385. DAIRY PRODUCTS JUDGING AND GRADING.** 3 hours. *Mr. Sheuring.*

Scoring and grading of milk, butter, and ice cream.

**388. MILK SANITATION.** 3 hours. *Mr. Bennett.* (Offered in alternate years; offered in 1965-66.)

A course especially designed for students interested in employment in milk inspection work. Training is given in interpretation of the recommendations of the U. S. Public Health Service Milk Ordinance Code, inspection of dairy farms and plants, state and municipal dairy ordinances, and methods used in conducting a milk sanitation program.

**389. (BACTERIOLOGY) DAIRY MICROBIOLOGY.** Prerequisite: Bacteriology 350. *Mr. Bennett.*

Determination of numbers and types of bacteria; use of microorganisms in the manufacture of dairy products; study of milk fermentations and disease-producing organisms applicable to milk.

**390. DAIRY CATTLE BREEDING.** Prerequisite: Plant Pathology 358. *Mr. Fosgate.*

A study of factors involved in improving the genotype and phenotype of dairy cattle. Mating systems and techniques, production testing, type classification, sire proofs and pedigrees. Application of genetics, anatomy, endocrinology, and physiology to improvement of dairy cattle.

**392. DAIRY CATTLE NUTRITION.** Prerequisites: Animal Husbandry 373, Chemistry 261. *Mr. Fosgate.*

The application of fundamental knowledge of nutrition, physiology, environment, and economics in the feeding and management of the dairy herd.

**394. MARKET MILK AND RELATED PRODUCTS.** *Mr. Sheuring.*

The sanitary and legal requirements for producing, handling and processing milk and related products; approved production methods; quality tests; processing operations; plant sanitation and efficiency.

**395. DAIRY PLANT MANAGEMENT.** *Mr. Sheuring.*

Fundamental principles of business and factory management practices as used in the dairy industry. Problems of personnel management, production methods, quality control, merchandising, dairy plant design and construction, records and business methods involved in dairy plant operations.

**396. BUTTER AND CHEESE TECHNOLOGY.** Prerequisite: Dairy 389. *Mr. Sheuring.* (Offered in alternate years. Not offered in 1965-66.)

Theory and practices involved in the manufacture of dairy products through coagulation and precipitation phenomena as well as control fermentation; cheese varieties, butter, and fermented milks; starter activity; cheese ripening; and butter flavor development.

**399. ICE CREAM MAKING.** Prerequisite: Dairy 103. *Mr. Sheuring.*

Basic principles of ice cream mix composition, standardization, flavoring, stabilization, processing, freezing, merchandising, and storage of ice cream, sherbets, ices, and soft-serve dairy products.

**411. (BACTERIOLOGY) MICROBIOLOGY OF MARKET MILK AND ICE CREAM.** Prerequisites: Chemistry 261, and Dairy 389. *Mr. Bennett.*

Microorganisms found in market milk, ice cream, and related products and their relationship to spoilage of the products and to epidemiology.

**412. (BACTERIOLOGY) MICROBIOLOGY OF BUTTER, CHEESE, AND CULTURED MILKS.** Prerequisites: Chemistry 261, and Dairy 389. *Mr. Bennett.*

Metabolic changes resulting from the growth of microorganisms occurring in milk and cream intended for manufacturing dairy products, and in butter, cheese, and cultured milks; bacteriophages affecting dairy microorganisms.

**491. ARTIFICIAL INSEMINATION.** 2 hours. Prerequisites: Zoology 390, Dairy 379, 390, or Animal Husbandry 405 or equivalent. *Mr. Fosgate.*

A study of the techniques involved in artificial insemination of farm animals with major emphasis placed on dairy cattle. The principles involved in semen production, collection, evaluation and use for insemination will be discussed.

493. MILK SECRETION. 3 hours. Prerequisites: Zoology 390, Dairy 379, 390, or equivalent. *Mr. Fosgate.*

The application of certain fundamentals of anatomy, biochemistry, and physiology to a study of milk secretion. The relationship of various farm practices to maximum milk yields will be discussed from the fundamental standpoint.

### GRADUATE COURSES

800. DAIRY CHEMISTRY. Prerequisites: Dairy 350, 389, 394, or equivalent. *Mr. Sheuring.*

A comprehensive study of the fundamental chemical and physical properties of milk and milk products. The basic laws concerning factors that affect the chemical composition, pH, viscosity, surface tension and coagulation of milk will be studied. The course will consist of lectures, discussions, surveys of literature, and special reports.

801. THE NUTRITIONAL PROPERTIES OF DAIRY PRODUCTS. Prerequisites: Chemistry 451, Dairy 800 or their equivalent. *Mr. Sheuring.*

A study of the basic nutritional properties of the constituents of milk and milk products and the effect of processing and storage methods upon these nutritive values.

802. THE CHEMICAL ANALYSIS OF DAIRY PRODUCTS. Prerequisites: Chemistry 380, Dairy 800 or their equivalent. *Mr. Sheuring.*

Theory and practice in analytical methods used for control and research in dairy chemistry: analysis of milk, fat, protein, lactose, lactalbumin, lactoglobulin, and minerals; methods of determining hydrolytic and oxidative rancidity; factors involving rennin action, surface tension, viscosity and freezing point determinations. The course consists of lectures and laboratory assignments.

803. PHYSICAL CHEMISTRY OF DAIRY PRODUCTS. Prerequisites: Chemistry 390, Dairy 802, or their equivalents. *Mr. Sheuring.*

Lectures and laboratory exercises concerning oxidation-reduction potentials, surface tension, absorption, plasticity, isoelectric point of proteins, colloidal properties of milk constituents, emulsions, and molecular dispersions as related to milk and milk products.

805-806. SPECIAL PROBLEMS IN DAIRY CATTLE FEEDING AND MANAGEMENT. 10 hours. Prerequisites: Dairy 390, 392, 394, or equivalent. *Mr. Clifton, Mr. Fosgate and Mr. Miller.*

A study of research work on the subject with special problems to be selected.

810. DAIRY SEMINAR. 1 hour (for one to six quarters) Prerequisite: Graduate standing. *The Staff.*

Presentation and critical discussion of student research problems.

819. ADVANCED DAIRY TECHNOLOGY. Prerequisites: Dairy 800, Physics 334, or their equivalents. *Mr. Sheuring.*

A study of basic chemical, physical, bacteriological and mechanical problems involved in the engineering and design of dairy processing equipment; theories of heat transfer, thermodynamics; thermal properties of solids and liquids; properties of metals, utilization of high pressures, partial vacuums and mechanical principles as affecting design, construction and operation of dairy equipment.

820. DAIRY TECHNOLOGY PROBLEMS. Prerequisites: Two graduate courses in dairying or their equivalents, and the consent of the major professor.

*The Staff.*

A special course for students qualified to carry out individual projects in dairy production, bacteriology, or manufacturing. Work to be done independently of the regularly scheduled classes. The course is available only to advanced graduate students and with the consent of the major professor.

930. THESIS RESEARCH IN DAIRYING. 5 to 50 hours.

Offered any quarter to meet the needs of any candidate for the M.S. or Ph.D. degree. Open only to graduate students majoring in the field of dairying.

## ENTOMOLOGY

(Biological Science Building, South Campus)

Head: Lund. Staff: Coleman, French, Hunter, Jordan, Paul, Tsao, Weathersby.

It is generally recognized that a thorough knowledge of insect control is necessary for the successful growing of either farm plants or farm animals, and should, therefore, be a part of the training of all agricultural personnel. In addition many positions in teaching, research, control, and extension entomology exist in colleges and universities, experiment stations, state departments of entomology, the United States Department of Agriculture,

the United States Public Health Service, and in various private concerns doing pest control or insecticide compounding or manufacturing. Advanced study leading to advanced degrees and to higher teaching and research positions is also available. The entomology major provides an excellent pre-medical program.

Students who specialize in entomology receive training in the identification of insects and the damage they cause, their structure, habits, and control.

Students who plan to major in Entomology should include Mathematics 101 and Chemistry 341 in their freshman-sophomore courses.

### CONCENTRATION IN ENTOMOLOGY

#### Science Option

MAJOR: Entomology 300, 370, 374, 376, 382 and one additional five-hour course .....	20 Hours
.....	20 Hours
SCIENCE SELECTIONS FROM: Bacteriology 350, Plant Pathology 358 and three additional courses from the following: Botany 375, Botany 380, Geology 125, Plant Pathology 353, Zoology 390; Mathematics 356 .....	25 Hours
FIRST MINOR: To be approved by Head of Department .....	10 Hours
SECOND MINOR: Must be in College of Agriculture .....	10 Hours
ELECTIVES AND SPECIAL REQUIREMENTS .....	40 Hours

To be chosen with the objective of obtaining information that will contribute most to students' basic knowledge for effective work in Entomology, and to be approved by the major professor. Philosophy 358 and 10 hours of a foreign language are required.

### CONCENTRATION IN ENTOMOLOGY

#### Administration Option

MAJOR: Entomology 300, 370, 374, 376, 382 and one additional 5-hour course .....	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467 .....	15 Hours
BUSINESS ADMINISTRATION: 110, 370 and an additional 10 hours in Business Administration approved by major professor .....	20 Hours
SCIENCE SELECTIONS: Plant Pathology 353, 358 .....	10 Hours
SPECIAL REQUIREMENT: Mathematics 356 or Economics 312, Agricultural Economics 469 or Economics 330, Philosophy 358 .....	15 Hours
ELECTIVES: To be selected with approval of major professor .....	25 Hours

### ENTOMOLOGY

300. INTRODUCTORY ENTOMOLOGY. 2 hours. Two double laboratory periods. Prerequisites: Two courses in plant or animal biology. *Mr. Lund.*  
An introduction to the study of insects—their structure, identification and biology.

370. INSECT MORPHOLOGY. 5 hours. Two lectures and three double laboratory periods. Prerequisites: Entomology 300. *Mr. Lund.*  
An introduction to insect structure and phylogeny.

374. ECONOMIC ENTOMOLOGY. 3 hours. One lecture and two double laboratory periods. Prerequisites: Entomology 300. *Mr. Paul.*  
A study of the recognition and control of insect pests of field, orchard, garden and home. Those taking this course in the winter quarter should consult Mr. Paul about making the required insect collection during the preceding warm weather.

376. MEDICAL ENTOMOLOGY. 3 hours. One lecture and two double laboratory periods. Prerequisites: Entomology 300. *Mr. Weathersby.*

A study of the biology, identification and control of the insects and related arthropods causing or transmitting diseases of man and lower animals.

382. FOREST PROTECTION. Entomology. 3 hours. One lecture and two double laboratory periods. Prerequisites: Entomology 300. *Mr. Hunter, Mr. Lund, and Mr. Tsao.*

A study of biology, recognition and control of insect pests of American forests. Those taking this course in the winter quarter should consult Mr. Tsao about making the required insect collection during the preceding warm weather.

474. ADVANCED ECONOMIC ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisite: One of the following entomology courses: 374, or 376. For graduate credit, one additional senior division course is required. *Mr. Paul.*

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 entomology courses: 374, or 376. For graduate credit, one additional senior division course is required. *Mr. Paul.*

A study of the physical and chemical behavior of insecticides, and accessory materials and of their toxicological effects upon plants and animals.

480. INTRODUCTORY ACAROLGY. Three lectures and two double laboratory periods. Prerequisite: One of the following Entomology courses: 370, 374, 376. For graduate credit, one additional senior division course is required. *Mr. Hunter.*

Structure, classification, and biology of mites and the control of those forms known to be of importance to the health and welfare of man.

573. FIELD AND STREAM BIOLOGY WITH EMPHASIS ON INSECTS AND RELATED FORMS. Two lectures and three double laboratory periods. Prerequisites: Two elementary courses in biological science and two courses numbered 200 or above in biological science or education. *Mr. Paul.*

A study of insects and related forms found on land and in water; their identification and life habits, and the control of noxious forms, with emphasis on the use of these forms in the teaching of high school biology.

## GRADUATE COURSES

800. ENTOMOLOGY SEMINAR. Credit 1 hour per quarter. Prerequisite: Graduate status in a Biological Science.

Weekly meetings with topics relating to Entomology both fundamental and applied, including literature review and recent advances.

805. INSECT PARASITES. Prerequisites: Entomology 376 and one additional senior division course in entomology. *Mr. Weathersby.*

An advanced study of the structure, biology, and identification of those insects and related arthropods which cause or transmit disease in man or lower animals.

815. INSECT PHYSIOLOGY. Three lectures and two double laboratory periods. Prerequisites: Entomology 373, one course in organic chemistry and either Zoology 390 or Botany 380. *Mr. Tsao.*

An introduction to the general physiological processes and functions of the various organ systems of insects.

871. TAXONOMY OF INSECT LARVAE. Two lectures and three double laboratory periods. Prerequisites: Any one of the following: Entomology 370, 374, or 376 and one additional senior division course. *Mr. Lund.* (Offered alternate years).

A study of the classification, biology, and phylogenetic and economic significance of insect larvae.

873. ADVANCED GENERAL ENTOMOLOGY. Three lectures and two double laboratory periods. Prerequisites: Entomology 370 and one additional senior division course are required. *Mr. Lund.* (Offered alternate years).

An advanced treatment of general entomology, including biological nomenclature, insect evolution and classification, and other special topics.

900. PROBLEMS IN ENTOMOLOGY. *The Staff.*

In this course students work intensively on problems in approved fields of entomology.

## DEPARTMENT OF FOOD TECHNOLOGY

(Food Technology Building, South Campus)

Head: Powers. Staff: Dornseifer, Flanagan, Hamdy, May, and Saffle.

The food processing industry is a 79 billion dollar industry in the United States. The industry is approximately four times larger than the next largest manufacturing industry. Because of the size of the food industry, the high percentage of foods which are marketed as a processed food rather than as a fresh or raw product, because improvements and new developments are the life-blood of the American competitive system, and because other industries closely related to the food industry, such as the packaging industry, employ food technologists—there is a constant 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 such industries as canning, freezing, pickling, preserving, meat and poultry 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 offers major work for the Master of Science and Doctor of Philosophy degree.

Briefly, occupations open to graduates are: research and development work in industry; production work in industry such as in canneries, freezing plants, and meat and poultry processing plants; technical sales within the food field itself or in closely related fields such as the container and equipment manufacturing fields; food inspection and grading with federal, state, or municipal agencies; teaching; extension work; research work in experimental stations and in other branches of government; food consulting; and promotional work with public or private utilities.

Usually some financial assistance is given students in the form of part-time employment as student helpers either as a part of College Experiment Station research projects or research supported by industrial grants-in-aid.

The Georgia Independent Meat Packers Association, The Redfern Sausage Co., Beavers Packing Co., Castleberry Foods, and SeaPak Inc., provide scholarships for majors in Food Technology. Details as to application for the latter scholarships may be secured from the Head of the Food Technology Department. Scholarships are also available through the Institute of Food Technologists. At present there are 15 scholarships of \$300 each and 8 scholarships of \$1,000 each. The Food Technology Department can furnish information concerning the method of application.

The Institute of Food Technologists also awards graduate fellowships. Three scholarships of \$4,000 are sponsored by the General Foods Corporation and one fellowship of \$1,000 by the Florasynth Company. Details as to the mode of application may be secured from this Department or from the Institute of Food Technologists.

The Department has outstanding facilities for instruction and for research. It is housed in a new building completed in 1959 and exceeding one million dollars in cost. Facilities are available for the processing of all types of meat, poultry, and horticultural products, for food packaging studies, and for radioisotopic, chemical, and microbiological studies involving foods.

Programs of study are worked out individually for each student. The general requirements are worked out below.

### REQUIREMENTS FOR A MAJOR IN FOOD TECHNOLOGY

The Food Technology Department offers two concentrations with a major in Food Technology.

**CONCENTRATION IN FOOD SCIENCE:** This concentration is designed for students who intend to enter graduate school, work in industrial research and development, or in other activities calling for a high degree of scientific competence.

**CONCENTRATION IN FOOD TECHNOLOGY ADMINISTRATION:** This concentration is designed for students whose interests and ability lean more toward the management side of the food industry than the scientific phases.

#### CONCENTRATION IN FOOD SCIENCE\*

##### Science Option

MAJOR: Food Technology 300, 411, 414, and one other 5-hour food technology course .....	20 Hours
SCIENCE SELECTION: Bacteriology 350, Chemistry 380, and 15 additional hours to be selected in consultation with departmental adviser .....	25 Hours
FIRST MINOR: Any department in the University .....	10 Hours
SECOND MINOR: Any department in the College of Agriculture .....	10 Hours
SPECIAL REQUIREMENT: Food Technology 423 .....	5 Hours
ELECTIVES .....	35 Hours

#### CONCENTRATION IN FOOD TECHNOLOGY

##### Administration Option

MAJOR: Food Technology 300 and 15 additional hours in Food Technology .....	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467 .....	15 Hours
BUSINESS ADMINISTRATION: 110, 151, 370, and an additional 5-hour course approved by Food Technology Department .....	20 Hours
SCIENCE SELECTIVES: Bacteriology 350 and Mathematics 101 .....	10 Hours
SPECIAL REQUIREMENTS: 10 hours of course work in statistics and finance .....	10 Hours
ELECTIVES .....	30 Hours

#### FOOD TECHNOLOGY

##### Courses for Food Technology Majors

**300. FOOD PRESERVATION.** Three lectures and two 2-hour laboratories. *Mr. Powers, or Mr. Dornseifer.*

Chemical, microbiological, and enzymatic changes occurring in foods and the control of such activity by various methods of processing and storage will be studied. Consideration will be given to questions of public health, nutritive value, quality of the finished product, and governmental regulations.

**367. FOOD INDUSTRIES SURVEY.** Prerequisites: Food Technology 300, 409 or equivalent. *Mr. Powers.* (Offered alternate years, not offered 1964-65).

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.

\*To meet the minimum requirement recommended by the Institute of Food Technologists for a major in food technology, a student should follow the Food Science Concentration and should select his Freshman-Sophomore agricultural electives and general electives, the science selectives, the minors, and Junior-Senior electives such that he will reach the following levels of attainment: Chemistry 121, 122, 223, 261, or 340, 380, 451, 490a, 490b, and 490c; Mathematics 100, 101, 210, 254, and 255; Physics 127, 128, and one additional 5-hour course in physics; 5 credit hours in nutrition; 25 hours in biological science, including Bacteriology 350 and Food Technology (Bacteriology) 395; 15 hours of Unit Operations (Agricultural Engineering 212, 213 and 230 and certain other courses in engineering, physics, or food technology); 25 hours of food technology courses; 15 hours in English and speech; and not less than 24 hours in economics, the humanities, and social science. By proper selection of courses, a student can comply with all the requirements of the curriculum of the College of Agriculture and the recommended curriculum of the Institute of Food Technologists. Variations from the course of study recommended by the Institute of Food Technologists are permitted—in consultation with the major adviser—provided the program meets the general requirements of the College of Agriculture.

**368. MEAT PROCESSING.** Prerequisite: Bacteriology 350. *Mr. Saffle.*

This course includes instruction in killing, skinning, dressing of pork and beef; grading, care of hides; utilization of inedibles; curing of beef and pork; smoking, packaging, and storing of cured pork products.

**386. (POULTRY) POULTRY MARKET PRODUCTS TECHNOLOGY.** Prerequisites: Poultry 160 or Food Technology 300 or equivalent. *Mr. May.*

Methods of processing shell, fluid and dried eggs, live and dressed poultry, and packaging and marketing of poultry products.

**395. (BACTERIOLOGY) MICROBIOLOGY OF FOODS.** Two lectures and three 2-hour laboratories. Prerequisites: Bacteriology 350. *The Staff.*

Microorganisms in natural and processed foods; their origin, nature, and effects on foods; enumeration; relations to health.

**409. COMMUNITY AND HOME FOOD PRESERVATION.** Prerequisites: Bacteriology 350 and Chemistry 261 or equivalent. Three lectures and two 2-hour laboratories. *Mr. Powers or Mr. Dornseifer.*

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 TECHNOLOGY PRINCIPLES AND INDUSTRIAL PRACTICES.** Prerequisites: Bacteriology 350, Chemistry 261 and Food Technology 300 or 409. Two lectures and two 2-hour laboratories. *Mr. Powers, and Mr. Dornseifer.*

Biochemical, colloidal, enzymatic, microbial, and physical changes occurring in foods during processing will be integrated to show the fundamental principles of food technology. Present practices, the application of research and food technology principles to the development of better products, and the food purity laws will be among the subjects studied.

**412. FOOD TECHNOLOGY PRINCIPLES AND INDUSTRIAL PRACTICES. (Continued).** *The Staff.***414. CHEMICAL AND MICROSCOPIC FOOD ANALYSIS.** Prerequisites: Bacteriology 350, Chemistry 261, Food Technology 300 or 409. Two lectures and three 3-hour laboratories. *The Staff.*

Chemical, microscopic, and organoleptic methods of food examination basic to the detection of adulteration, to food grading, and to quality control.

**415 a-b. FOOD TECHNOLOGY SEMINAR.** Prerequisites: Any two senior division courses in Food Technology. 2 hours each. *The Staff.*

A discussion course, required of all students majoring in the department in which journal articles from basic and applied fields of sciences are assigned, presented, and discussed.

**415 c. FOOD TECHNOLOGY SEMINAR.** 1 hour. Same as the above course.**421. (BACTERIOLOGY) ENVIRONMENTAL MICROBIOLOGY.** Prerequisite: Food Technology 414. Two lectures and three 3-hour laboratories. *Mr. Hamdy.*

Microbiological, physical, and mathematical considerations involved in determining thermal death rates, rates of heat penetration, and in calculating the lethality of processes will be studied with particular references to spore-forming anaerobes. Isolation, enumeration, and factors affecting sporogenesis, dormancy, and spore germination will be studied. The General Method, Ball's Method, and the newer concepts of process calculation will be compared.

**422. INSTRUMENTAL METHODS OF FOOD ANALYSIS.** Prerequisite: Food Technology 414. Two lectures and two 4-hour laboratory periods per week. *Mr. Dornseifer.*

Polarographic, spectrophotometric, colorimetric, and potentiometric methods of analysis as applied to food will be studied. Emphasis will be placed upon correlation and interpretation of results.

**423. FOOD PACKAGING.** Prerequisite: Food Technology 412 and 414. Two lectures and three 3-hour laboratories. *The Staff.*

Physical, chemical, microbiological, and economic problems related to food packaging. Characteristics and uses of metal, glass, paper, and flexible film packaging materials and containers. Methods of testing packages and packaging materials for performance such as physical strength, water-vapor permeability, organic vapors transmission, odor transmission, greaseproofness, and humidity equilibria of foods.

**424. ADVANCED TECHNOLOGY OF MEAT, FISH, AND POULTRY PROCESSING.** Prerequisites: Food Technology 411, 414, and 421. *Mr. Saffle.*

Advanced theoretical and applied concepts relating to physical, chemical, enzymatic, and microbial changes occurring in meat, fish, and poultry products during processing will be studied with particular reference to canning, curing, freezing, refrigeration, spoilage of fresh and processed flesh products, and the use and development of by-products.

## COURSES FOR NON-FOOD TECHNOLOGY MAJORS

330. MEATS JUDGING AND GRADING. 3 hours. One lecture and two 2-hour laboratories. *Mr. Saffle.*

A course which deals with the selection and grading of beef, lamb, and pork carcasses and cuts. Research findings will be presented concerning the validity of present methods.

364. TECHNOLOGY OF FROZEN AND REFRIGERATED FOODS. 3 hours. Two lectures and one 2-hour laboratory. *The Staff.*

Chemical and physical changes encountered during freezing and refrigerated storage of foods, causes of spoilage, packaging, the retention of nutrients, and quality control. Principles of basic refrigeration systems and equipment and methods used in freezing fruit, vegetable, meat, and marine products at home, in locker plants, and as large commercial enterprises.

365. MEAT CUTTING. Prerequisite: Bacteriology 350. *Mr. Flanagan.*

Designed to teach basic information concerning meat quality and skills in cutting beef, pork, lamb, and poultry products.

## GRADUATE COURSES

800. (BACTERIOLOGY) INDUSTRIAL FERMENTATIONS. Prerequisites: Bacteriology 350 and Chemistry 451. Three lectures and two 3-hour laboratories. *Mr. Hamdy.* (Offered alternate years; offered 1965-66).

The ketogenic fermentation process, production of organic acids, enzymes, vitamins, antibiotics, dextran and other products from agricultural or industrial starting materials will be studied. Emphasis on theoretical or fundamental reactions involved and conditions affecting fermentation efficiency.

819-820. METHODS IN FOOD TECHNOLOGY. Prerequisite: Food Technology 414. Two discussion periods and six laboratory periods per week. *Mr. Powers and Staff.*

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.

821. THERMAL AND RADIATION STERILIZATION OF FOODS. Prerequisites: Mathematics 255, or permission of the instructor; Food Technology 411 and 421; Bacteriology 409. Two lectures and three 3-hour laboratories. *The Staff.*

Mathematical, chemical, physical, and biological considerations affecting thermal and radiation process requirements of foods. Emphasis will be placed on death-rates of spoilage microorganisms and destruction-rates of enzymes when these are subjected to different heating conditions and different sources of radiation. Destruction-rates of spoilage agents will be integrated with heat and radiation penetration rates to derive processing time.

830. RADIATION PRINCIPLES. Prerequisites: Chemistry 651, Botany 380, or Poultry 601, or Physics 228. *Mr. Hamdy, Mr. Lassiter.*

Principles and techniques of radiochemistry and radiobiology.

856. (CHEMISTRY) PROTEIN CHEMISTRY. Prerequisite: Chemistry 451. Three lectures and two 3-hour laboratories. *Mr. Hamdy.* (Offered alternate years; offered 1965-66).

An examination of the current literature on proteins, their structure, isolation, denaturation, enzymic and other biological activity. Consideration will be given to the physicochemical properties, ion-protein interaction, and chemical modifications of proteins.

## GENERAL AGRICULTURE

(Conner Hall, South Campus)

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 Director of Resident Instruction.

The science option in General Agriculture is recommended for students wishing to prepare themselves for *general farming*. As compared with majoring in any specific department, it may offer greater freedom in course selection.



## CONCENTRATION IN GENERAL AGRICULTURE

## Science Option

MAJOR: Agronomy 321 and 356, Animal Husbandry 358, Agricultural Economics 301 .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 353 and 358, Entomology 300, 374, Botany 380 or Veterinary Physiology 311 .....	25 Hours
FIRST MINOR: Poultry 371, Dairy 392 .....	10 Hours
SECOND MINOR: Horticulture 362, Plant Pathology 356, 357, Agronomy 320, 332, 458 (any two courses) .....	10 Hours
SPECIAL REQUIREMENTS: Food Technology 409, Agricultural Engineering 203 .....	10 Hours
GENERAL ELECTIVES .....	30 Hours

## DEPARTMENT OF HORTICULTURE

(Livestock-Poultry Building, South Campus)

Division Chairman and Head: Johnstone. Staff: Couvillon, Curtis, Pokorny, Rutland.

The Department of Horticulture offers courses designed to train young men and women for jobs in both the business and science of horticulture. For this purpose, and in keeping with modern trends, there are two general options which may be followed.

*The administration option* is designed for those students desiring to farm with vegetable, fruit, flower or nursery crops; to manage contracting or landscape nurseries; to enter the retail or wholesale florist business; or to become associated with businesses supplying or serving horticultural industries.

*The science option* is designed primarily for persons going into research or instruction. Usually such students sooner or later work toward advanced degrees. However, there are terminal positions as scientific aids, technicians, inspectors in regulatory services, fieldmen for canneries, technical representatives with allied industries, etc.

Within each of the above two general options, students may also concentrate in one of the several natural divisions of horticulture. These are floriculture, ornamental horticulture, pomology (fruit crops), and olericulture (vegetable crops).

## CONCENTRATION IN HORTICULTURE

## Administration Option

MAJOR: Selected junior and senior courses in horticulture .....	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467 .....	15 Hours
BUSINESS ADMINISTRATION: 110, 370, and 10 other selected hours approved by adviser .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Entomology 374, Plant Pathology 353 and 358 .....	10 Hours
SPECIAL REQUIREMENTS: Economics 312, Economics 330, or Agricultural Economics 469 .....	10 Hours
ELECTIVES*: Approved by faculty adviser .....	30 Hours

## CONCENTRATION IN HORTICULTURE

## Science Option

MAJOR: Selected junior and senior courses in horticulture .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Botany 323, 380, Plant Pathology 353 and 358, Entomology 374 .....	25 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. To be approved by Head of Department ..... 10 Hours

ELECTIVES\*: Approved by faculty adviser ..... 40 Hours

101. GENERAL HORTICULTURE. Prerequisite: Botany 121, 122. *Mr. Rutland* and *Mr. Cowillon*.

A survey of the field of horticulture with discussions of the principles and practices used in vegetable, fruit, flower, and ornamental plant production.

308. PRINCIPLES OF HORTICULTURE. Prerequisite: Botany 121, 122. *Mr. Rutland* and *Mr. Cowillon*.

A study of the principles of plant growth as they are applied to the production of horticultural crop plants. Emphasis is placed on the effect of temperatures, light, nutrients, and water on growth and development. This course required of majors in horticulture.

310. GREENHOUSE CONSTRUCTION AND MANAGEMENT. 3 hours. *Mr. Rutland*.

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; coldframes and hotbeds; pits and storage houses.

356, 423, 459, Animal Husbandry 373, Botany 305 and 306, 323, Chemistry 223, 380, Food Technology 363 or 409, Geology 125, Landscape Architecture 313, 351, 352, Plant Pathology 357, Business Administration 370, 560, 561, 562, 563, Advanced Military or Air Science. Additional horticultural courses. Electives to be adapted to fit student requirements, as approved by Head of Department.

311. FLORAL DESIGN. 3 hours. *Mr. Rutland*.

The commercial aspects of floral design. 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. 2 hours. *Mr. Rutland*.

A study of materials, equipment, supplies, and arrangement of retail floral shops. Sources of flowers and supplies.

321. (LANDSCAPE ARCHITECTURE) THE MAINTENANCE OF ORNAMENTAL PLANTINGS AND LANDSCAPE MANAGEMENT. 3 hours. Prerequisite: Horticulture 101. *Mr. Johnstone*.

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, DUST, AND FUMIGANTS AND THEIR APPLICATIONS Prerequisites: Plant Pathology 353 and Entomology 374. *Mr. Cowillon*.

Selection, preparation, and application of sprays, dusts, and fumigants for the control of insects, diseases, weeds, and other pests of horticultural crops. Especial attention is given to spraying and dusting schedules, effects of various chemicals on different kinds of plants, ecological factors, residues, application machinery, and economical considerations. The practical side of pest control is stressed.

362. PLANT PROPAGATION. Prerequisite: Horticulture 101, or Botany 121, 122. *Mr. Pokorny*.

Principles and practices of plant propagation as applied primarily to horticultural crops. The culture and care of nursery properties are also considered.

363. NURSERY MANAGEMENT. Prerequisite: Horticulture 362 or permission of the instructor. *Mr. Pokorny*.

Designed for students interested in the problems of nursery management and production, including the history and development of the nursery business today.

368. MANAGEMENT OF ORNAMENTALS AND TURF. Prerequisite: Horticulture 101 or 308, and 362. *Mr. Johnstone*.

A study of the various operations, equipment, materials, and work programs necessary for the proper and efficient professional maintenance and management of ornamental and turf plantings.

400. HORTICULTURAL SEMINAR. 1 hour. *The Staff*.

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.

401. THE FUNDAMENTALS OF FRUIT PRODUCTION. Prerequisites: Botany 380, Horticulture 353 or Plant Pathology 353, or equivalent. *Mr. Cowillon*.

This course deals with the biological and chemical principles of plant life as directly applied to the economic production of fruit crops.

\*Note: Suggested electives for both options; Agricultural Economics 304, Agronomy 324,

402. **ADVANCED POMOLOGY.** Prerequisites: Horticulture 401, Plant Pathology 357, Entomology 374. *The Staff.*

Photosynthesis, respiration, transpiration, translocation and other physiological processes as they are related to problems in fruit production. The effect of environmental factors on vegetative growth, flowering and fruiting are also considered. A comprehensive review of the literature on research which has led to solutions of problems in production is a part of the course.

403. **THE PRINCIPLES OF VEGETABLE PRODUCTION.** Prerequisites: Botany 380, Entomology 374. *Mr. Johnstone.*

A study of the principles and practices involved in the production of vegetable crops. The literature on research having to do with the development of olericulture is reviewed and studied in relation to current problems.

404. **ADVANCED OLERICULTURE.** Prerequisites: Plant Pathology 353 and Horticulture 408. *The Staff.*

Photosynthesis, respiration, translocation, transpiration and other physiological processes as they are related to problems in vegetable production. The reaction of the above to changes in environmental factors, and the interaction of the above to changes in environmental-genetical factors upon vegetative growth, flowering, and fruiting are stressed. Research literature is thoroughly reviewed.

405. **FLORICULTURE.** Prerequisites: Botany 380 and Horticulture 308. *Mr. Rutland.*

Fundamental principles of plant growth and the effects of environmental factors such as temperature, water, air, nutrients, photoperiod and light intensity as they are related to cut flowers and potted plants grown under glass.

406. **ADVANCED FLORICULTURE.** Prerequisites: Botany 323 and Horticulture 405. *Mr. Rutland.*

A comprehensive review of pertinent scientific literature and research on the ecology, physiology and other growth processes, storage, transportation, and distribution of commercial cut flowers and potted plants.

407-408. **SPECIAL PROBLEMS IN HORTICULTURE.** 2-5 hours each. For summer work 10 hours must be selected. Prerequisites: Horticulture 101, and at least 10 hours in one of the horticultural concentrations, or equivalent in experience or other combinations of courses. *The Staff.*

For the advanced undergraduate or graduate student who wishes to gain practical experience. Required of all major students who do not have a farm or plant production background. Graduate students must schedule at least 5 hours a quarter and must undertake a minor research problem under direction of a staff member.

421. **THE HANDLING, PREPARATION FOR MARKET, AND STORAGE OF FRUITS AND VEGETABLES.** Prerequisites: Two senior college courses in fruits or vegetables. *Mr. Johnstone.*

Physiology of maturation and the effects of temperature, light, bruising and other factors on ripening. Also the relation of the above to various operations and equipment used in harvesting, handling, preparation for market and storage of fruits and vegetables.

503. **ADVANCED GENERAL HORTICULTURE.** Prerequisite: 10 hours plant sciences and permission of instructor. *Mr. Johnstone, Mr. Couvillon.*

A study of the principles of plant growth as applied to the production of horticultural crops. Available only to candidates for agricultural extension and education degrees.

### GRADUATE COURSES

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 contributions of outstanding leaders in horticultural enterprises and organized research.

## DEPARTMENT OF PLANT PATHOLOGY AND PLANT BREEDING

(Food Technology Building, South Campus)

Division Chairman and Head: Owen. Staff: Browne, Boyce, Bryan, Fleming, Kozelnicky, Kuhn, Mathews, Powell, Ruehle.

Significant disease losses in crop plants and forest trees create a demand for trained personnel in disease recognition, research, control, and methods of breeding plants for disease resistance.

Students who major in this department receive training in the basic sciences of plant pathology, forest pathology, plant genetics, and nematology as well as the applied aspects of these sciences. Specialized courses are designed to give instruction in the agencies causing plant diseases and their effects upon the plant. The student also receives training in the principles and methods of genetics and plant breeding used in development of new varieties or strains of cultivated plants which are better adapted to agricultural uses and are more resistant to 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. research specialists.
2. Agricultural Extension specialists in plant sciences.
3. Plant geneticists and breeders for commercial seed companies.
4. Research or sales promotion workers for manufacturers of fungicides or insecticides.
5. Plant industry research scientists.
6. State plant inspectors.
7. Public relation positions with background in plant sciences.
8. Laboratory technicians.
9. Training for foreign assignments.
10. College science teachers.
11. Preparation for advanced study in fields of plant and forest pathology, plant genetics, physiological genetics, nematology, virology, and mycology.

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 PLANT PATHOLOGY

#### Science Option

MAJOR: Plant Pathology 356, 357, 420-421 .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Plant Pathology 353, 358, Mathematics 356 or Economics 312 .....	25 Hours
MINOR 1: Entomology 374, 477 .....	10 Hours
MINOR 2: Botany 323, 327 .....	10 Hours
ELECTIVES FROM THE FOLLOWING: Agronomy 320, 321, 324, 356, Botany 305, 358, 483, French 103, 104, German 103, 104, 205, Horticulture 308, 353, 401, 403, Plant Pathology 401, 402, 425 .....	40 Hours

### CONCENTRATION IN PLANT PATHOLOGY

#### Administration Option

MAJOR: Plant Pathology 353, 356, 357, 358 .....	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467 .....	15 Hours
BUSINESS ADMINISTRATION: 110, 111, 368, 370 .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Entomology 374 .....	10 Hours
SPECIAL REQUIREMENTS: Mathematics 356 or Economics 312, Agricultural Economics 469 or Economics 330 .....	10 Hours
ELECTIVES FROM THE FOLLOWING: Agronomy 320, 324, 356, 461, Botany 305, 380, Entomology 373, 477, Horticulture 308, 353, Plant Pathology 402, 425 .....	30 Hours

CONCENTRATION IN PLANT GENETICS

Science Option

MAJOR: Plant Pathology 356 or 357, 358, 401, 402 .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Botany 380, Entomology 374, Mathematics 356 or Economics 312, Plant Pathology 353 .....	25 Hours
MINOR 1: Two senior division courses in College of Agriculture to be approved by the major professor .....	10 Hours
MINOR 2: Botany 323, 375 .....	10 Hours
ELECTIVES FROM THE FOLLOWING: Agricultural Economics 301, 304, 364, Agronomy 320, 321, 324, 332, 356, 425, 461, Botany 305, 358, 483, Animal Husbandry 372, 373, Geology 125, Horticulture 353, 362, 401, 403, Zoology 401, or any other appropriate senior division courses approved by major professor .....	40 Hours

CONCENTRATION IN PLANT BREEDING

Administration Option

MAJOR: Plant Pathology 353, 356 or 357, 358, 402 .....	20 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467 .....	15 Hours
BUSINESS ADMINISTRATION: 110, 111, 368, 370 .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Entomology 374 .....	10 Hours
SPECIAL REQUIREMENTS: Agricultural Economics 469 or Economics 330, Mathematics 356 or Economics 312 .....	10 Hours
ELECTIVES FROM THE FOLLOWING: Agronomy 320, 321, 324, 332, 356, Botany 305, 375, 380, Entomology 373, Horticulture 308, 353, 362, 401 .....	30 Hours

PLANT PATHOLOGY AND PLANT BREEDING

353. ELEMENTARY PLANT PATHOLOGY. Three lectures and two laboratory periods. Prerequisites: Botany 121, 122. *Mr. Owen* and *Mr. Powell*.

A general introduction to the diseases of plants. Representative types will be studied in field and laboratory.

356. DISEASES OF FIELD CROPS. Three lectures and two double laboratory periods. Prerequisite: Plant Pathology 353. *Mr. Kozelnicky*.

A course designed to meet the needs of students in plant pathology and agronomy.

357. DISEASES OF HORTICULTURAL CROPS. Three lectures and two double laboratory periods. Prerequisite: Plant Pathology 353. *Mr. Powell*.

A study of the more important diseases of fruits, vegetables, and ornamentals.

358. AGRICULTURAL GENETICS. Prerequisites: Botany 121-122, or Zoology 225-226. *Mr. Fleming*.

An introductory course in genetics designed to acquaint the student with principles of heredity and variation and their application to breeding.

383. (FORESTRY) FOREST PATHOLOGY. 3 hours. *Mr. Boyce*.

This course is similar to Plant Pathology 353, but differs in the use of types causing death or decay in trees. Methods of control suitable to both forest and city conditions are studied.

401. PLANT GENETICS. Prerequisite: Plant Pathology 358. *Mr. Fleming*.

Advanced studies in inheritance of plants, including the genetics of sterility and disease resistance, linkage, application of chi-square to genetic experiments; Cytoplasmic and quantitative inheritance; mutations and radiation.

402. PLANT BREEDING. Prerequisite: Plant Pathology 358. *Mr. Fleming*.

Fundamental methods utilized in the science of plant breeding and the important role that breeding plays in crop and tree improvement.

415 a-b-c. PLANT PATHOLOGY AND PLANT BREEDING SEMINAR. 1 hour each. *The Staff*

Topics pertaining to Plant Pathology and Plant Breeding research will be presented by students and followed by a general discussion. Graduate students and faculty members will participate.

420. MYCOLOGY. Prerequisites: Two suitable senior division courses in either Botany, Microbiology, or Zoology. *Mr. Owen*.

Comparative morphology and taxonomy of the fungi. A general study of all classes of fungi.

421. MYCOLOGY. Prerequisite: Plant Pathology 420. *Staff*.

Advanced morphology and taxonomy of fungi, with special emphasis on plant parasites.

423. PLANT VIROLOGY. Prerequisite: Plant Pathology 353 or 358. *Mr. Kuhn.*

The basic nature of plant viruses, their symptoms, transmission, identification, serology, purification and control.

425. PLANT NEMATOLOGY. Prerequisite: Plant Pathology 353 or 383. *Mr. Powell.*

A consideration of the morphology and taxonomy of plant parasitic nematodes. Particular emphasis is placed on comparative morphology of the different forms and the use of specific characters in identification.

426. NEMATODE DISEASES OF PLANTS. Prerequisite: Plant Pathology 425. *Mr. Powell.*

A detailed consideration of diseases of crop plants caused by nematodes, including symptoms, economic importance, hosts, distribution, and control. Attention will be directed to the life cycles and habits of various plant parasitic forms and their macroscopic and microscopic effects on the host.

### GRADUATE COURSES

800-801. RESEARCH IN PLANT PATHOLOGY. 5 hours each. Prerequisites: Two senior division courses in Plant Pathology. *The Staff.*

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: Two senior division courses in Plant Pathology, Plant Breeding, or Botany. *Mr. Fleming.*

This series consists of a genetics problem with field studies, appropriate readings, and conferences.

812. (AGRONOMY) SPECIALIZED PLANT BREEDING. Prerequisites: Plant Pathology 353, 402, and one senior division course in crop production. *Mr. Brown, Mr. Fleming, Mr. Douglas, Mr. Kozelnicky and Mr. Powell.*

Conducted cooperatively by the Department of Agronomy and Department of Plant Pathology and Plant Breeding. A combination of lectures and laboratory periods in the greenhouse and experimental field with emphasis on fundamental practices and techniques used in the development of farm-crop varieties and hybrids. Opportunity for student to receive personal supervision.

815. ADVANCED PLANT PATHOLOGY AND PLANT BREEDING SEMINAR. 1 hour per quarter for 1 to 6 quarters. *The Staff.*

Topics related to research in Plant Pathology and Plant Breeding, including literature review, materials and methods and results pertaining to experimental work.

### POULTRY DEPARTMENT

(Livestock-Poultry Building, South Campus)

Division Chairman and Head: Driggers. Staff: Cook, Dembnicki, Edwards, Fuller, Huston, Jones, May, Noles, Reid, Tindell, Wheeler; Associate Staff: Boyd, Kleckner, Richey, Schmittle.

The courses in the Poultry Department 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, sales and service, and quality control.
3. The processing industry: plant operation and personnel management.
4. Experiment Station and Extension specialist.
5. The hatchery business: incubation and hatching egg production.
6. Advance study leading to the M.S. and Ph.D. in the fields of poultry nutrition, genetics, market products technology, diseases and parasites; physiology.

Adequate facilities and technical equipment are available for both teaching and research uses. At the Poultry Research Unit, located on the cam-

pus, facilities include 4 modern laying houses with a capacity of approximately 8,000 laying hens and sufficient modern brooder house space for rearing this stock. Several smaller laying and brooder houses are available for conducting research with smaller numbers. There are 18 pens of exhibition fowl for use by judging teams. Facilities also include a separate laboratory where constant temperatures can be maintained for heat tolerance studies with mature fowl; a nutrition laboratory wherein several thousand chicks can be grown to broiler age under uniform conditions for the conduct of fundamental nutrition research; and more than 100 breeding pens for teaching and research in poultry breeding and genetics.

A broiler research center is located 3 miles from Athens on the University's Whitehall Poultry Farm. This center includes facilities for growing 16,000 broilers experimentally under conditions approximating commercial broiler growing. This Farm includes facilities for brooding and rearing several thousand turkeys in confinement and approximately 350 acres of range land.

The Southern Regional Poultry Genetics Laboratory is located at the University of Georgia. Here the results of research in poultry breeding at the 13 Southern Experiment Stations and Puerto Rico are brought together for evaluation and comparison. This activity focuses the attention of poultry breeders all over the country on the University of Georgia and its poultry program.

Students majoring in poultry have opportunities for experience in poultry disease diagnosis. Facilities for the study and diagnosis of diseases include The University of Georgia Poultry Disease Research Center, The Southeastern Poultry Research Laboratory and The School of Veterinary Medicine.

The poultry industry in Georgia ranks first among the agricultural enterprises which bring the greatest cash income to the farm. 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. As a result the Georgia poultry industry has made available a number of scholarship programs.

**INDUSTRY SCHOLARSHIPS.** Scholarships of \$250 provided by the Georgia Poultry Federation and the poultry industry in Georgia are available in sufficient numbers so that high school graduates who are interested in studying Poultry Husbandry and who can meet the scholastic requirements can be accommodated.

**MARBUT FOUNDATION SCHOLARSHIPS.** A scholarship fund of \$2,000 per year has been provided by the Marbut Foundation, Inc. of Augusta. This will provide one scholarship of \$400 for an outstanding student in each of the four classes.

Inquiries concerning these scholarships should be directed to the Chairman of the Poultry Division and full information will be provided as to the necessary steps to be taken by the applicant. Applications should be received before February 1.

### CONCENTRATION IN POULTRY

#### Science Option

MAJOR: Poultry 371, 373, 379 and an additional 15 hours in Poultry .....	26 Hours
FIRST MINOR: Any department in the College of Agriculture .....	10 Hours
SECOND MINOR: Any department in the University .....	10 Hours

SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358, Poultry 358, Zoology 390, and other 5 hours on the list of approved Science Selections .....	25 Hours
GENERAL ELECTIVES .....	34 Hours

### CONCENTRATION IN POULTRY

#### Administration Option

MAJOR: Poultry 371, 373, 379 and an additional 15 hours in Poultry .....	26 Hours
AGRICULTURAL ECONOMICS: 304, 408, 467 .....	15 Hours
BUSINESS ADMINISTRATION: 110, 370 and an additional 10 hours selected with departmental approval .....	20 Hours
SCIENCE SELECTIONS: Bacteriology 350, Plant Pathology 358 .....	10 Hours
SPECIAL REQUIREMENTS: Poultry 358, Mathematics 356 or Eco- nomics 312, Agricultural Economics 469 or Economics 330 .....	15 Hours
ELECTIVES: Selected with departmental approval .....	19 Hours

### POULTRY

#### 160. POULTRY PRODUCTION. 3 hours. *Mr. Driggers.*

An introductory course designed to provide basic information in poultry husbandry.

#### 358. FUNDAMENTALS OF ANIMAL NUTRITION. Prerequisites: Zoology 226,

#### Chemistry 261. *Mr. Fuller* and *Mr. Lassiter.*

A study of the fundamental principles of animal nutrition.

#### 370. CULLING AND GRADING OF POULTRY. 3 hours. Prerequisites: Poul-

try 160 and junior standing or equivalent. *The Staff.*

Instructions and practice of methods of culling laying fowl, and a study of Federal and State grades of shell eggs, live and dressed poultry.

#### 371. COMMERCIAL POULTRY MANAGEMENT. Prerequisite: Poultry 160.

*Mr. Noles.*

A detailed study of the management practices and principles used in the business of producing eggs and poultry meat. Emphasis is placed on the factors influencing costs and returns in poultry operations.

#### 372. POULTRY BREEDING. Prerequisite: Plant Pathology 358 or Zoology

401. *Mr. Tindell.*

A consideration of the inheritance of morphological and physiological characters, including meat and egg production. Emphasis is placed on the development of criteria for selection and the development of genetically sound poultry breeding programs.

#### 373. POULTRY HEALTH. Prerequisite: Poultry 160 and Bacteriology 350.

Offered to students majoring in poultry and others that are qualified.

A study of common infectious, parasitic and nutritional diseases of poultry; their causes, diagnosis, prevention and control.

#### 375. POULTRY NUTRITION. Prerequisites: Poultry 160, 358. *Mr. Fuller.*

The application of the principles of nutrition to the avian species. A study is made of the biochemical aspects of the individual nutrients and their supply in terms of feedstuffs and practical poultry diets.

#### 377. PHYSIOLOGY OF HATCHABILITY. Prerequisite: Zoology 226 or equivalent. *Mr. Huston.*

A lecture and problem course in incubation, considering the heredity, nutritional, and environmental factors affecting the development and hatching of chicks. Principles of hatchery management and sanitation.

#### 378. ANATOMY OF THE DOMESTIC FOWL. Prerequisite: Zoology 226 or equivalent. *Mr. Huston.*

A lecture and laboratory study of the gross and microscopic anatomy of the bird with special reference to domestic fowls.

#### 379. POULTRY SEMINAR. 1 hour. Prerequisite: Poultry 160. *The Staff.*

Open to all students in related fields. Attendance without registering for credit is permitted. Topical discussion of current problems and papers of scientific work in poultry to be presented by the students, advance students, faculty members, and guest speakers.

#### 386. (FOOD TECHNOLOGY) POULTRY MARKET PRODUCTS TECHNOLOGY. Pre-

requisites: Poultry 160 or Food Technology 300 or equivalent. *Mr. May.*  
Methods of processing shell, fluid and dried eggs, live and dressed poultry, and packaging and marketing of poultry products.



**393. FEED MANUFACTURING.** 3 hours. Prerequisites: Poultry 375 or Animal Husbandry 373 or Dairy 392. *Mr. Fuller* and *Mr. White*.

A survey of the feed manufacturing industry; feed mill design, operation, finance, and organization; utility, space, and labor requirements.

**401. AVIAN PHYSIOLOGY.** Prerequisites: Chemistry 261, Zoology 390. *Mr. Huston*.

A study of the physiology of circulation, respiration, digestion, metabolism, and the nervous system of the fowl with emphasis on the glands of internal secretion. For advanced undergraduates, graduates, and students in veterinary medicine.

**403. STUDIES IN POULTRY NUTRITION.** Prerequisite: Poultry 375. *Mr. Fuller*.

A study of the scientific literature in the field of poultry nutrition designed to bring the advanced student abreast of the problems of current interest in this field, with special emphasis on research methods.

**405. ADVANCED POULTRY BREEDING.** Prerequisites: Plant Pathology 358 or Zoology 401 and Poultry 372. *Mr. Tindell*.

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.

## GRADUATE COURSES

**560-760. ADVANCED POULTRY SCIENCE AND PRACTICE.** Prerequisites: Graduate status; Poultry 160 and one of the following: Bacteriology 350, Poultry 358, Zoology 390 or equivalent. The Staff

An advanced course designed to provide current information on poultry genetics and physiology, nutrition, environment, market products technology, health and economics. Graduate credit limited to those students in professional degree programs.

**802. PROBLEMS IN POULTRY QUALITY CONTROL.** Prerequisites: Poultry 371 and 372. *Mr. May*

A course designed to permit the student to make an intensive study of some problem in the field of egg and poultry quality control.

**803. EXPERIMENTAL METHODS IN POULTRY NUTRITION.** Prerequisites: Chemistry 451, Poultry 358 or 375. One lecture and four laboratory periods. *Mr. Fuller* and *Mr. Edwards*.

The theory and practice of laboratory procedures employed in nutrition research to include balance studies; microbiological, animal and chemical assays; hematological techniques; calorimetry; and radioisotope techniques.

**805. PROBLEMS IN POULTRY GENETICS.** Prerequisites: Agronomy 423, Plant Pathology 358 or Zoology 370, Poultry 405. *Mr. Huston*.

Application of genetic theory and principles to poultry breeding. Genetics of sterility, disease resistance, and application of population methods.

**806. PHYSIOLOGY OF AVIAN REPRODUCTION.** Prerequisites: Poultry 372 and Zoology 390. *Mr. Huston*.

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.

**808. PARASITIC DISEASES OF POULTRY.** Prerequisite: Zoology 372 or equivalent. *Mr. Reid*.

An intensive study of life histories and ecological factors useful in control of poultry parasites.

**809. (VETERINARY HYGIENE) POULTRY DISEASES AND PARASITES.** *Mr. Kleckner*.

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.

**810. POULTRY SCIENCE SEMINAR.** 1-3 hours. 1 hour per quarter, a maximum of three quarters. *The Staff*.

Weekly meetings with emphasis on current literature, research, and other recent advances in poultry science.

**811. PROBLEMS IN POULTRY DISEASES AND PARASITES.** *Mr. Boyd, Mr. Kleckner, Mr. Reid, Mr. Richey, and Mr. Schmittle*.

This course allows students to work intensively on approved problems after selection of the specialized area with the appropriate staff member.

**930. RESEARCH AND THESIS.** 5 to 20 hours. Prerequisites: Two or more graduate courses in poultry. *The Staff*.

## AGRICULTURAL ENGINEERING

(Barrow Hall, South Campus)

Division Chairman and Head; Driftmier. Staff: Brown, Cobb, Guill, Harris,  
Perry, Ratterree, Reed, Rice, Rodgers, Smith, White.

Agricultural Engineering is the branch of the engineering profession that concerns itself with the problems of agriculture which are engineering in nature. Modern agriculture with its emphasis on diversity, automation, efficiency, quality, and abundant production presents an increasingly large variety of complex engineering problems. In answer to this and similar challenges, modern science and technology have produced advanced concepts of energy conversion, new materials and new manufacturing techniques, and have greatly extended man's ability to control environment.

Thus far Agricultural Engineers have brought engineering to agriculture by introducing into the industry the use of mobile mechanical power, electrical energy with its related controls and equipment, new structural designs, environmental control and new policies and techniques in land and water use. In addition, there have been applications of solar energy, atomic energy, electromagnetic radiations and advancements in the science and art of engineering systems design as applied to the handling, storage, processing, and marketing of agricultural products.

The courses comprising the four-year professional curriculum - Bachelor of Science in Agricultural Engineering - provide well balanced training in the basic sciences, engineering sciences, engineering design and analysis, and in the humanistic and social sciences. The curriculum is accredited by the Engineer's Council for Professional Development. The department also offers a program of graduate study leading to the degree Master of Science. The graduate program places emphasis upon advanced study in science and engineering and upon the methods and practices of research.

The need for trained engineers continues to increase from year to year and the BSAE graduates are engaged in a variety of activities. A complete listing of their various job-classifications would be quite extensive but in general their occupations are about as follows: 42% are in industry with farm machinery companies, feed manufacturers, electric power suppliers, building material suppliers, etc.; 20% are in government service with the SCS, ARS, AMS activities of USDA; 10% are engaged in teaching, research, or extension with colleges and universities; 20% are self-employed either as consultants, contractors, or sales engineers; and 8% choose a career in some branch of the Armed Forces.

## CURRICULUM IN AGRICULTURAL ENGINEERING

### FRESHMAN

FALL	Hours	WINTER	Hours	SPRING	Hours
Eng'r. Graphics, AEN 104	2	Eng'r. Graphics, AEN 105	2	Eng'r. Graphics, AEN 108	2
Chemistry, CHM 121	5	Chemistry, CHM 122	5	Eng'r. Shop, AEN 202	3
Composition, ENG 101	5	Composition, ENG 102	5	Pub. Speaking, SPC 108	5
Alg. or Trig., MAT 100	5	Anal. Geom., MAT 210	5	Calculus, MAT 254	5
or 101	5	Mil. or Air Sc., MIL 1	1	Mil. or Air Sc., MIL 1	2
Mil. or Air Sc., MIL 1	1	or AST 5	2	or AST 5	0
or AST 5	2	Physical Educ., PED 1	0	Physical Educ., PED 1	0
Physical Educ., PED 1	0		—	Fld. Crop. Prod., AGY 101	3
Seminar, AEN 190	1		—		—
	20		19		20

SOPHOMORE

FALL		WINTER		SPRING	
	Hours		Hours		Hours
Calculus, MAT 255.....	5	Calculus, MAT 457.....	5	Dif. Equations, MAT 40L.....	5
Physics, PCS 137.....	5	Physics, PCS 138.....	5	Physics, PCS 239.....	5
Hum.-Soc. Studies.....	5	Hum.-Soc. Studies.....	3	Hum.-Soc. Studies.....	5
Surveying, AEN 211.....	3	Prin. of Soils, AGY 210.....	5	Eng'r. Econ., AEN 340.....	3
Mil. or Air Sc., MIL 2.....		Mil. or Air Sc., MIL 2.....		Mil. or Air Sc., MIL 2.....	
or AST 6.....	2	or AST 6.....	2	or AST 6.....	2
Physical Educ., PED 2.....	0	Physical Educ., PED 2.....	0	Physical Educ., PED 2.....	0
	<u>20</u>		<u>20</u>		<u>20</u>

JUNIOR

FALL		WINTER		SPRING	
	Hours		Hours		Hours
Statics, AEN 350.....	5	Dynamics, AEN 351.....	5	Fluid Mech., AEN 356.....	5
Thermo., AEN 373.....	4	Heat Transfer, AEN 374.....	4	Eng'r. Materials, AEN 353.....	4
D. C. Mach., AEN 384.....	3	A. C. Mach., AEN 386.....	4	Electronics, AEN 387.....	4
Hum.-Soc. Studies.....	5	St. of Mat., AEN 355.....	5	Int. Systems Anal., AEN 357.....	4
	<u>17</u>		<u>18</u>		<u>17</u>

SENIOR

FALL		WINTER		SPRING	
	Hours		Hours		Hours
Agri. Mach., AEN 361.....	4	Agri. Power, AEN 362.....	4	Rural Elec., AEN 388.....	4
S & W Eng'r., AEN 325.....	5	Farm St. Des., AEN 371.....	4	Eng'r. Proc., AEN 375.....	4
Hum.-Soc. Studies.....	5	Hum.-Soc. Studies.....	3	Mach. Des., AEN 363 or	
Technical Electives.....	3	Technical Electives.....	6	St. Des., AEN 377.....	4
Seminar, AEN 392.....	0		—	Technical Electives.....	6
	<u>17</u>		<u>17</u>		<u>18</u>

Total requirements, 211 hours, exclusive of the required courses in Military Science 1-2 or Air Science 5-6 and Physical Education 1-2. Students electing Advanced ROTC may not use such courses in fulfillment of the degree requirements.

Technical Electives are to be chosen from the following courses: AEN 326, 329, 341, 352, 354, 358, 359, 363, 376, 377, 378, 380, 393, and MAT 458, 459.

An approved sequence of Humanistic-Social Studies may be selected from the following courses: Agricultural Economics 110, 310; Political Science 101; History 100, 111, 112; Sociology 105, 373, 380, 435; Philosophy 305, 357, 408; Psychology 101, 371, 414; English 121, 122; and Modern Foreign Language, 10-hours.

Admission requirements include the following science courses: chemistry 1 unit; physics 1 unit; mathematics consisting of algebra 2 units, advanced algebra ½ unit; trigonometry ½ unit; and plane geometry 1 unit.

AGRICULTURAL ENGINEERING

COURSES FOR B.S.A.E. STUDENTS

104-105. ENGINEERING GRAPHICS. 4 hours (2 hours a quarter). Two 3-hour laboratory periods only each quarter. *Mr. Smith.*

Use of drawing instruments, lettering, detailing, orthographic and pictorial methods of presentation.

108. ENGINEERING GRAPHICS. 2 hours. Two 3-hour laboratory periods only. Prerequisite: Agricultural Engineering 105. *Mr. Smith.*

Representation of geometrical magnitudes by means of points, lines, planes and solids, and their application in the solution of problems.

190. FRESHMAN SEMINAR. 1 hour. *Mr. Driftmier and Staff.*

Agricultural Engineering Survey and Orientation.

202. ENGINEERING SHOP. 3 hours. Two 3-hour laboratory periods. Prerequisite: Agricultural Engineering 108. *Mr. Harris.*

Machine tool work, cold metal work, carpentry, and oxy-acetylene and arc welding.

211. SURVEYING. 3 hours. Three 2-hour laboratory periods. Prerequisites: Mathematics 101 and Agricultural Engineering 105. *Mr. Guill.*  
Surveying methods, instruments and computations related to field problems in taping, leveling, directions, curves, and land surveying.

325. SOIL AND WATER ENGINEERING. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 356. *Mr. Cobb.*

Engineering aspects of soil erosion and its control; principles, methods and design of drainage and irrigation systems.

326. ENGINEERING HYDROLOGY. 3 hours. Prerequisite: Agricultural Engineering 356. *Mr. Cobb.*

Occurrence and movement of water, elementary meteorology, precipitation, evaporation, transpiration, infiltration, storage, runoff, and hydrograph analysis.

329. DESIGN OF HYDRAULIC STRUCTURES. 3 hours. Prerequisite: Agricultural Engineering 325 and 356. *Mr. Cobb.*

Design of structures for impoundment, storage, management, use, and controlled disposal of water.

340. ENGINEERING ECONOMICS. 3 hours. *Mr. Rodgers.*

Mathematics of investments; methods of financing; output, life and selection of equipment; depreciation; manufacturing costs.

341. APPLIED ENGINEERING MATHEMATICS. 3 hours. Prerequisite: Mathematics 401 or equivalent. *Mr. Ratterree.*

Mathematical analysis, solution, and interpretation of engineering systems and data. May include topics from differential equations.

350. STATICS OF ENGINEERING. Prerequisites: Mathematics 255 and Physics 137. *Mr. Ratterree.*

Force systems, resultants, equilibrium, friction, centroids, and moments of inertia.

351. DYNAMICS OF ENGINEERING. Prerequisite: Agricultural Engineering 350. *Mr. Ratterree.*

A study of the motion of rigid particles and bodies under the action of balanced and unbalanced force systems. Includes force, mass, and acceleration, work and energy, and impulse and momentum methods.

352. ENGINEERING MECHANISMS. 3 hours. Prerequisite: Agricultural Engineering 351. *Mr. Ratterree.*

A study of the kinetics of machines.

353. PROPERTIES OF ENGINEERING MATERIALS. 4 hours. One three-hour laboratory. Corequisite: Agricultural Engineering 355. *Mr. Ratterree.*

A study of the microscopic and macroscopic properties of materials and their application to engineering.

354. INSTRUMENTATION AND CONTROLS. 3 hours. Prerequisite: Physics 239. *Mr. Brown.*

An introductory presentation of the basic theory, principles, and operation of instruments, controls, and automatic control systems.

355. STRENGTH OF MATERIALS. Prerequisite: Agricultural Engineering 351. *Mr. Ratterree.*

Elements of stress analysis, resistance, and design as applied to engineering materials and structures.

356. FLUID MECHANICS. One three hour laboratory. Prerequisite: Agricultural Engineering 351. *Mr. Ratterree.*

Elements of engineering applications of the laws of fluid behavior; statics, kinematics, and kinetics of fluids.

357. INTRODUCTORY SYSTEMS ANALYSIS. 4 hours. Prerequisite: Agricultural Engineering 386 and Math 401. *Mr. Brown.*

A study of the basic concepts of systems operation, determination of models for physical devices, flow diagrams, transfer functions and linear system analysis.

358. ENGINEERING SYSTEMS DESIGN. 3 hours. Prerequisite: Agricultural Engineering 375. *Staff.*

Case studies of farm materials handling systems with emphasis on the analysis and synthesis of the complete system, its optimization, alternates, and governing parameters.

359. INTRODUCTION TO MECHANICAL VIBRATIONS. 3 hours. Prerequisite: Agricultural Engineering 355. *Mr. Ratterree.*

Vibratory motion, including linear and torsional vibrations with one or more degrees of freedom; vibrations of beams and shafts; critical speeds.

361. AGRICULTURAL MACHINERY. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 351. *Mr. Rice.*

Agricultural production machinery design, features, costs, performance, maintenance, and field testing.

362. AGRICULTURAL POWER. 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 373. *Mr. Rice.*

Thermodynamic principles, design, operation, rating, testing, and application of power units for agricultural uses.

363. **MACHINE DESIGN.** 4 hours. Two 3-hour laboratory periods. Prerequisite: Agricultural Engineering 355. *Mr. Ratterree.*  
Application of principles of mechanics, physical properties of materials, and shop processes to the design of machine parts.
371. **FARM STRUCTURES DESIGN.** 4 hours. Two 3-hour laboratory periods. Prerequisites: Agricultural Engineering 353 and 355. *Mr. Perry.*  
Environmental, space, and structural design of farm structures; cost estimates and specifications.
373. **THERMODYNAMICS.** 4 hours. Prerequisites: Mathematics 254 and Physics 138. *Mr. Rodgers.*  
The properties and fundamental equations of gases and vapors. Thermodynamics of heat cycles, compressors, and engines.
374. **HEAT TRANSFER.** 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 373. *Mr. Rodgers.*  
Theory of heat transmission by conduction, radiation and convection, and the solution of engineering problems relating thereto.
375. **ENGINEERING PROCESSES.** 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 374. *Mr. Rodgers.*  
Engineering principles as applied to heating, cooling, dehydrating, drying, ventilating, size reduction, mechanical separations, and air-water-contact operations.
376. **REINFORCED CONCRETE CONSTRUCTION.** 3 hours. One 3-hour laboratory period. Prerequisites: Agricultural Engineering 355 and 371. *Mr. Perry.*  
Mechanics of reinforced concrete. Design of floor systems, beams, columns, footings, and retaining walls.
377. **STRUCTURAL ANALYSIS AND DESIGN.** 4 hours. Prerequisite: Agricultural Engineering 355. *Mr. Ratterree.*  
Introduction to the analysis of statically determinate and indeterminate structures. Applications to beams, frames, and trusses.
378. **ENVIRONMENTAL TECHNOLOGY.** 3 hours. Prerequisite: Agricultural Engineering 374. *Mr. Perry.*  
A study of the production and control of environment parameters required for the production of livestock and poultry and the storage of farm products. Emphasis is placed on the selection, design, and control of equipment and structures for achieving a specific physical environment as determined by known biological and physiological responses.
380. **REFRIGERATION.** 3 hours. Prerequisite: Agricultural Engineering 374. *Mr. Perry.*  
Application of thermodynamics and heat transfer to the design of cooling systems for spaces, fluids, and solids; humidity control, reversed cycle, and control systems.
384. **DIRECT CURRENT CIRCUITS AND MACHINES.** 3 hours. One 3-hour laboratory period. Prerequisites: Mathematics 255 and Physics 239. *Mr. Brown.*  
Fundamentals of electric and magnetic circuits, networks and network theorems, and the theory and application of DC generators and motors.
386. **ALTERNATING CURRENT CIRCUITS AND MACHINES.** 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 384. *Mr. Brown.*  
Single phase and polyphase alternating current circuit theory and a detailed study of the operating characteristics of transformers, alternators, polyphase motors and single phase motors.
387. **ENGINEERING ELECTRONICS.** 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 386. *Mr. Brown, and Mr. Smith.*  
A study of electronic devices, including transistors, with particular emphasis on the design of circuits for small signal amplifiers, relays, electronic timers, photoelectric devices, and gas-filled tubes.
388. **RURAL ELECTRIFICATION.** 4 hours. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 386. *Mr. Brown, and Mr. Smith.*  
A study of the factors influencing the design and selection of electric equipment, circuits, and devices which can be advantageously used in agricultural enterprises for light, heat, power, control, radiation and measurement.
392. **SENIOR SEMINAR.** Required. *Mr. Driftmier and Staff.*  
Professional duties, procedures, and ethics of the engineer.
393. **ENGINEERING SPECIFICATIONS AND CONTRACTS.** 3 hours Prerequisite: Senior standing. *Mr. Ratterree.*  
Basic principles of contracts and contractual relations; preparation of specifications and other material which form an essential part of the contract documents.

#### COURSES FOR NON-ENGINEERING STUDENTS

111. **SURVEYING.** Three 2-hour laboratory periods. Prerequisite: Mathematics 101. *Mr. Guill.*  
Surveying methods, instruments, and computations related to field problems in taping, leveling, directions, curves, and land surveying.

203. WOOD AND MASONRY TECHNOLOGY. Five 2-hour laboratory periods. *Mr. Harris.*

Development of basic understanding and skills in wood and masonry work; selection, care, and use of materials, hand tools, and power equipment; plans, sketches and drawings; woodworking and carpentry; concrete and masonry; painting and wood finishing.

207. METAL TECHNOLOGY. Five 2-hour laboratory periods. *Mr. Harris.*

Development of basic understanding and skill in metal work; selection, care, and use of materials, hand tools, and power equipment; cold and hot metal work; gas and arc welding; plumbing; soldering; and service centers.

212. PRINCIPLES OF FOOD PROCESSING. 3 hours. One 2-hour laboratory period. *Mr. Perry.*

Process and operation planning; principles of materials handling and plant layout; instrumentation and principles of process control; package engineering; principles of fluid flow, fans, pumps, and piping together with their selection for use.

213. FOOD PROCESS ENGINEERING. 3 hours. One 2-hour laboratory period. Prerequisite: Agricultural Engineering 212. *Mr. Perry.*

Principles of heat flow, drying, evaporation, distillation and equipment and their incorporation in the Food and Dairy Industries; principles of refrigeration and related equipment used in food storage and processing.

220. DRAINAGE, IRRIGATION, AND EROSION CONTROL. 3 hours. One 3-hour laboratory period. *Mr. Cobb.*

Principles and methods of drainage, irrigation, and erosion control systems.

228. SOIL AND WATER TECHNOLOGY. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 220. *Mr. Cobb.*

Planning and design of water disposal, drainage, and irrigation systems and the study of research results as applied to conservation farming.

230. FOOD PLANT ENGINEERING. One 3-hour laboratory period. Prerequisite: Agricultural Engineering 213. *Mr. Perry.*

Food plant design and equipment layout; transportation of fluids, size reduction, mixing, mechanical separation, etc., principles and practices as applied in the Food and Dairy industry. Lectures, laboratory exercises and field trips are combined to present an integrated picture of total plant operation.

260. FARM POWER MACHINERY. 3 hours. One 3-hour laboratory period. *Mr. Rice and Mr. Guill.*

The operation, care, repair, and selection of farm machinery and tractors for use on farms.

265. FARM BUILDINGS AND EQUIPMENT. 3 hours. *Mr. Harris and Mr. Guill.*

A study of farm buildings, equipment, and facilities with emphasis on space, material, sanitary, managerial, and cost requirements.

280. FARM ELECTRIFICATION. 3 hours. Prerequisite: Physics 120. *Mr. Brown and Mr. Smith.*

Applications of electricity to agriculture; wiring systems for farm buildings; selecting, using, and controlling electrically operated equipment in farming operations.

## GRADUATE COURSES

701. AGRICULTURAL ENGINEERING APPLICATIONS. Prerequisite: Agricultural Engineering 203, and Education 336, or Agricultural Economics 301, or equivalent. (For Agricultural students only). *Mr. Harris.*

The application of engineering techniques to agricultural production and utilization practices, with emphasis on the organization, management, and physical facilities for farm mechanics work on farms, in secondary schools, and in related farm occupations.

702. ADVANCED ENGINEERING APPLICATIONS. Prerequisite: Agricultural Engineering 701. (For Agricultural students only). *Mr. Harris.*

A continuation of the farm mechanics improvement plans and procedures developed in Agriculture Engineering 701 with emphasis on economic limitations and extension of engineering techniques and practices.

703. FUNCTIONAL PLANNING OF FARM STRUCTURES AND UTILITIES. Prerequisites: Agricultural Engineering 265 and Agricultural Economics 301 or equivalent. *Mr. Perry.*

Basic problems in planning farm structures for typical agricultural enterprises in the southeast; development, storage, treatment and distribution of farm water supplies; and the collection and disposal of sewage and farm wastes. (For non-engineering students).

704. MODERN FARM POWER AND MACHINERY. Prerequisites: Agricultural Engineering 260 and Agricultural Economics 391 or equivalent. *Mr. Rice.*

Characteristics and principles of farm tractors and power units, both self-propelled and tractor-drawn, and related machinery. Emphases are on selection, operation, care, maintenance, and management. (For non-engineering students).

**705. SOIL AND WATER CONSERVATION.** 3 hours. Prerequisites: Agricultural Engineering 220 and Agricultural Economics 301 or equivalent. *Mr. Cobb.*

Technical aspects of soil and water conservation methods; planning and management of drainage, irrigation, and erosion control measures. (For non-engineering students).

**706. ELECTRIC POWER AND CONTROL.** 3 hours. Prerequisites: Agricultural Engineering 280 and Agricultural Economics 301 or approval of instructor. *Mr. Brown.*

Principles of selection, installation, and maintenance of electric motors, controllers, automatic control systems, and electric heating and cooling equipment; electric measurements as evaluation techniques. (For non-engineering students).

**707. FARM MATERIALS HANDLING.** 3 hours. Prerequisite: Agricultural Engineering 706. *Mr. Brown, Mr. Rice, and Mr. White.*

Selection and evaluation of equipment for conveying, grinding, mixing, separating, drying and storing farm products. Emphasis is placed on planning complete materials handling systems. (For non-engineering students).

**804. SPECIAL ELECTRICAL PROBLEM.** Prerequisites: Agricultural Engineering 388 or equivalent. *Mr. Brown.*

Problems dealing with electrical circuits, apparatus, and systems associated with electricity in agriculture.

**805. AGRICULTURAL STRUCTURES DESIGN.** Prerequisite: Agricultural Engineering 371 and 374 or equivalent. *Mr. Perry.*

Insulation, ventilation, heat and vapor relationships; structural theory and design.

**806. ADVANCED FARM POWER AND EQUIPMENT.** Prerequisite: Agricultural Engineering 361, 362 and 373, or equivalent. *Mr. Rice.*

Special problems dealing with design, development, and performance testing of agricultural tractors and machines.

**807. SOIL AND WATER CONSERVATION.** Prerequisite: Agricultural Engineering 325 and 326, or equivalent. *Mr. Cobb.*

Advanced studies of water control and utilization through drainage, irrigation, and conservation engineering.

**809. INDUSTRIAL ELECTRONICS.** Prerequisites: Mathematics 255, Physics 229, Agricultural Engineering 384, 386. *Mr. Brown.*

Electronic circuits, tubes and transistors with special emphasis on the design of circuits for use with transducers of light, moisture, heat, sound, and mechanical motion. Electronic instruments and control systems are studied with a view toward development of original thinking on methods of control and instrumentation.

**810. ADVANCED STRESS ANALYSIS.** Prerequisites: Mathematics 255, Agricultural Engineering 353, 355. *Mr. Rice, and Mr. Ratterree.*

The use of electrical resistance strain gauges, brittle lacquers, photo-elastic methods, and electronic equipment for stress analysis determinations not adaptable to mathematical solutions.

**811. PROCESS ENGINEERING.** Prerequisite: Agricultural Engineering 371 and 375 or equivalent. *Mr. Perry, Mr. White and Mr. Rodgers.*

Evaluation and development of engineering aspects of the processing of agricultural products with emphasis on equipment, process control, materials handling, and plant layout and their combination into systems for processing agricultural products.

**813. RESEARCH METHODS AND INSTRUMENTATION.** Prerequisite. Graduate status. *Mr. Brown.*

Research problems, design and execution of experiments, and the principles and application of scientific apparatus and equipment used in research.

930. THESIS. 5 to 50 hours.

## DEPARTMENT OF LANDSCAPE ARCHITECTURE

(Landscape Architecture Building, North Campus)

Division Chairman and Head: Owens. Staff: Beery, Cairns, Linley, Pirie, Pledger, Ramsey.

Landscape Architecture is the art of adapting land to human use and enjoyment. It is a blend of the rational and the intuitive, of analysis and insight of the scientific and the artistic. The practicing Landscape Architect must join solid knowledge and rational thought process with insight and imagination to solve problems of land use. His materials are earth, water, construction materials and living plants. His tools are the artistic techniques of visual presentation, fundamental engineering processes, basic horticultural

tural skills, and understanding and sympathy with the dynamics of the natural environment. The product of his work must be an artistic creation which is functionally satisfying.

Increasingly the Landscape Architect finds it necessary to work with members of the other service professions to tackle, as a team, the broad and expanding problems of land planning. He must, therefore, have some understanding of and sympathy with the members of other professions, such as, Architects, Artists, Engineers, Planners, Sociologists, Economists and Public Administrators. He should be thoroughly competent in his own professional field, and also be able to take his place as a well-rounded member of the community.

The studies offered in Landscape Architecture at the University of Georgia are built around a curriculum designed to train young men and women for professional practice. The general program leading to the degree of Bachelor of Landscape Architecture is accredited by the American Society of Landscape Architects. This concentration is four years and one additional quarter in duration. The Department offers two other curricula, one in Recreation Planning in cooperation with the School of Forestry, and another specializing in problems of Landscape Operations. These may be elected upon completion of the Sophomore year.

Among the special facilities available to students is the Founders Memorial Garden which affords an excellent field laboratory, and the Landscape Architecture Building itself, with its drafting rooms, model making shop, photographic room, departmental library and gallery. In addition, four supervised field trips are required. During the last two years students travel, at their own expense, to designated places of landscape interest in Georgia and adjoining states accompanied by a member of the teaching staff. Visiting critics and lecturers are often invited to supplement the staff's offerings.

### 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 LANDSCAPE OPERATION. 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 home grounds, estates and parks.

### THE FOLLOWING CORE CURRICULUM IS REQUIRED OF ALL STUDENTS MAJORING IN LANDSCAPE ARCHITECTURE

#### FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
Eng. 101-102	10	Eng. 121	5
Math. 101	5	Bot. 121	5
PSC 101	5	Hort. 101	5
Aen. 111	5	Art 120	5
LAR 255-256	10	LAR 350-357	10



LAR 272 .....	5	LAR 352 .....	5
LAR 273 .....	5	LAR 200-201 .....	10
		LAR 300 .....	3
	45		48
SUMMER TERM		PRACTICAL EXPERIENCE	
Hist. 111-112 .....	10	1 Summer .....	1
		FIELD TRIPS	
		4 at ½ hour each .....	2

ADDITIONAL REQUIREMENTS:

All students must satisfy University requirements with respect to ROTC, Physical Education, Constitution Examinations and American and Georgia History Examination.

BACHELOR OF LANDSCAPE ARCHITECTURE

I. GENERAL PROGRAM

JUNIOR AND SENIOR YEARS

Hours		Hours	
Art Elec. ....	5	Art Elec. ....	5
Chem. 121 or Geography 104 .....	5	LAR 323 .....	5
LAR 340 .....	3	LAR 453 .....	5
LAR 351 .....	5	LAR 318, 319, 322, 333,	
LAR 302, 315, 316, 317,		355, 358 .....	30
320, 354 .....	30		
	48		45

BACHELOR OF SCIENCE IN LANDSCAPE ARCHITECTURE

II. RECREATION PLANNING

JUNIOR AND SENIOR YEARS

Hours		Hours	
LAR 351 .....	5	LAR 390 .....	3
LAR (Studio Courses) .....	30	LAR 340 .....	3
Electives* .....	10	LAR (Studio Courses) .....	30
		Electives* .....	10
	45		46

BACHELOR OF SCIENCE IN LANDSCAPE ARCHITECTURE

III. LANDSCAPE OPERATION

JUNIOR AND SENIOR YEARS

Hours		Hours	
Chem. 121 or Geography 104 .....	5	LAR 340 .....	5
LAR 321 .....	3	LAR 364 .....	5
LAR 351 .....	5	LAR 355 .....	4
Electives* .....	35	Electives* .....	35
	48		48

MASTER OF LANDSCAPE ARCHITECTURE

A program is offered leading to the degree Master of Landscape Architecture. Requirements are individually determined to fit the course of study selected and the students prior training and experience.

\*Electives subject to approval by Department Head.

## LANDSCAPE ARCHITECTURE

200. BASIC DESIGN STUDIO. Five laboratory periods. *Mr. Ramsey.*  
Introduction to solving dimensional design problems with emphasis on the techniques for arriving at aesthetic solutions and their presentation. The study of environmental and site factors and their impact on elementary architectural and landscape complexes.
201. BASIC DESIGN STUDIO. Five laboratory periods. *The Staff.*  
Organization of the living function and its expression in plan and elevation with studies in orientation and site planning. Continuation of design problems dealing with architectural and landscape elements including the exploration and organization of structures in relation to landscape factors.
255. ARCHITECTURAL DRAFTING. Five laboratory periods. *Mr. Pledger.*  
A condensed course in principles of orthographic projection, isometric and perspective. Emphasis is placed on use of instruments, lettering and problems in layout.
256. ARCHITECTURAL PROJECTIONS. Five laboratory periods. Prerequisite: Landscape Architecture 255. *Mr. Pledger.*  
Shades and shadows and presentation drawings in isometric projection and perspective.
272. HISTORY OF LANDSCAPE DESIGN. Five lecture periods. *Mr. Owens.*  
Deals with the gradual development of the art of landscape design from the earliest efforts to the present day, laying special stress upon the transition of styles and the development of the naturalistic and contemporary periods.
273. HISTORY OF ARCHITECTURE. Five lecture periods. *Mr. Linley.*  
Principal periods of architectural history. Acquaints departmental majors with architectural developments which influenced landscape design, but is also open to other students and laymen interested in the background of the various "styles" in buildings and furnishings.
300. RENDERING. Three periods. 3 hours. *Mr. Beery.*  
The techniques used in the preparation of architectural plans, perspectives and illustrations. Emphasis is on the exploration of various media suitable for professional presentations and the common methods of reproduction.
302. LANDSCAPE DESIGN STUDIO. Five Laboratory periods. *Mr. Linley.*  
The study of small structures dealt with in landscape design and their appropriate expression. Problems in siting.
313. LANDSCAPE DESIGN. Five laboratory periods. Principally for students not majoring in landscape architecture. *Mr. Ramsey.*  
Problems in design involving the designing and rendering of plans for gardens, residential properties, and public buildings.
315. INTERMEDIATE LANDSCAPE DESIGN STUDIO. Five laboratory periods. Prerequisites: LAR 200, 201. *Mr. Ramsey.*  
The application of design theory to smaller landscape developments, studying the relationship of landscape factors in the organization of public buildings with original problems in design, rendering and model making.
316. INTERMEDIATE LANDSCAPE DESIGN STUDIO. Five laboratory periods. Prerequisite: LAR 315. *Mr. Cairns.*  
A continuation of LAR 315 with original problems of larger scope.
317. INTERMEDIATE LANDSCAPE DESIGN STUDIO. Five laboratory periods. *Mr. Ramsey.*  
The study and solution of problems dealing with larger architectural and landscape elements, particularly in the public sector.
318. ADVANCED LANDSCAPE DESIGN STUDIO. Five laboratory periods. *The Staff.*  
A continuation of the study of design with emphasis on urban landscape development and civic design.
319. ADVANCED LANDSCAPE DESIGN STUDIO. Five laboratory periods. *The Staff.*  
A continuation of LAR 318 with original design problems in large landscape developments.
320. INTERMEDIATE LANDSCAPE DESIGN STUDIO. Five laboratory periods. *The Staff.*  
The study of design with emphasis on larger scale landscape developments and recreational facilities such as: industrial parks, regional shopping centers, parks and airfields.
321. (HORTICULTURE) THE MAINTENANCE OF ORNAMENTAL PLANTINGS AND LANDSCAPE MANAGEMENT. 3 hours. Three lecture periods. *Mr. Cairns.*
322. ADVANCED LANDSCAPE DESIGN STUDIO. Five laboratory periods. *Mr. Linley.*  
Urban landscape developments and the organization of larger architectural units and groups of buildings.
323. ADVANCED LANDSCAPE ECOLOGY. Five lecture periods. *Mr. Cairns. and Guest Lecturers.*  
Exploration of the ecological relationship of man and his environment. Introduces problems of Geography, Geography, Climatology, Physiology, Pathology, Entomology, Zoology, etc., in an effort to seek a scientific basis for planning action. Open to fourth year students with previous courses in the plant sciences.

340. PROFESSIONAL PRACTICE IN LANDSCAPE ARCHITECTURE. 3 hours. Three lecture periods. *Mr. Beery.*

Professional practice and ethics; contracts, reports and specifications.

350. ELEMENTARY LANDSCAPE CONSTRUCTION. Prerequisites: Agricultural Engineering 111, Mathematics 101 or equivalent. *Mr. Beery.*

Materials of landscape construction, their characteristics and uses; elementary grading, drainage and simple construction details.

351. PLANT MATERIALS. Five periods. *Mr. Pledger.*

A study of plant materials used in landscape architecture and their identification. Deals with trees, shrubs and vines.

352. PLANT MATERIALS. Three laboratory periods. *Mr. Owens.*

A study of plant materials used in landscape architecture, dealing with flowers, perennials and grasses.

354. PLANTING DESIGN. Five laboratory periods. Prerequisites: LAR 351, 352. *Mr. Ramsey.*

Deals with problems which aim to train the student to produce with plants and other landscape material, practical and aesthetically effective results.

355. LANDSCAPE THESIS. Five laboratory periods. *Mr. Owens.*

An advanced problem in landscape architecture to be carried out completely with detailed plans, specifications and estimates and serving as a comprehensive examination.

357. LANDSCAPE ENGINEERING. Five laboratory periods. *Mr. Berry.*

Design and construction of pavements, structures, irrigation systems and utilities, calculations and determinations of design loads and quantities of materials.

358. ADVANCED LANDSCAPE CONSTRUCTION. Five laboratory periods. *Mr. Beery.*

Advanced earthwork, road and highway engineering, preparing master plans and details, estimating and preparing contracts and specifications for landscape construction.

364. PLANTING DESIGN. Five periods. Prerequisite: Landscape Architecture 354. *Mr. Owens.*

A continuation of Landscape Architecture 354. Emphasis is placed on the design and planting of large scale projects.

370. HISTORY AND APPRECIATION OF LANDSCAPE ARCHITECTURE. Five lecture periods. Designed as an elective for students not majoring in landscape architecture. *The Staff.*

Elements of landscape architecture. 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.

373. CIVIC DESIGN. Three lecture periods. *Mr. Ramsey.* (Offered alternate years only).

A review of notable civic spaces of the ancient, medieval, renaissance and modern communities as a reflection of the culture of each period and modern design theories as a basis for the design of contemporary open spaces, civic centers, educational, recreational and industrial complexes.

390. RECREATIONAL PLANNING. Three lecture periods. *Mr. Beery.*

The study of administration, organization and operation of parks and recreation areas; theory of play; the study and formulation of master, project and unit recreation plans.

453. CITY PLANNING. Two laboratory periods and three lectures. *Mr. Linley.*

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.

## GRADUATE COURSES

653. CITY PLANNING. Two laboratory periods and three lectures. *Mr. Linley.*

An introduction to contemporary trends in planning. This course covers the history and bibliography of the subject with considerable supplemental readings and special projects.

701, 702, 703, 704. SPECIAL PROBLEMS IN LANDSCAPE ARCHITECTURE. 5 to 20 hours. Prerequisite: A minimum of 10 quarter hours of senior division work in design, and consent of instructor. *Mr. Owens.*

Intensive studies in special aspects of Landscape Architecture designed to explore applications in such fields as park and recreation development, planting design, theory and history, landscape construction, rural and urban land use studies and development. The courses will consist primarily of readings and seminar discussions with projects in drawing and model building. The assigned projects will be adjusted to the needs and interests of the individual student.

# THE GEORGE FOSTER PEABODY SCHOOL OF FORESTRY

ALLYN MARSH HERRICK, B.S., M.F., Ph.D., *Dean*

## HISTORY

The School of Forestry was first established early in 1906 through the interest and generosity of Mr. George Foster Peabody who endowed it for a three-year period. It is the oldest forestry school in the South and one of the oldest in the country. In 1908, the School became a Division of the College of Agriculture and remained so for about twenty-seven years. In June 1935, by action of the Board of Regents of the University System, the George Foster Peabody School of Forestry was re-established.

The many graduates of the School have played a very important part in the development of the forestry program in the South, serving in all phases of forestry work.

The School is ideally situated for its important role as a regional school. Its location in the State makes it not only easily accessible to residents of Georgia but to those of neighboring states. It is also well located as to accessibility to the three major forest regions of the Southeastern United States: Mountain; Piedmont; and Coastal Plain.

## BUILDING, EQUIPMENT, AND FOREST PROPERTIES

The School is housed in its own 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, and offices.

Two large wings are attached to the main building, one containing additional staff offices, a photographic darkroom, and wildlife, radioisotope, genetics, soils and timber-testing laboratories. The other wing contains a complete sawmill, edger, trimmer, planer, and well-equipped wood-working shop. A modern dry kiln is located adjacent to the utilization wing. Three greenhouses for research and instruction are likewise available.

Ample surveying, mapping, cruising, silvicultural, forest protection and other equipment is owned by the School. Calculating machines and photo-interpretation devices are used regularly in the instructional program, and the Statistical Institute provides additional facilities in the way of high-speed electronic computers. Specialized research equipment is available for student and faculty use.

The forest properties owned by the University are managed by the School of Forestry. One of these is 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. 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 have been established on this forest. The U. S. Forest Service has erected an experimental charcoal kiln on this property, established a series of experimental plantings, and has started a fencepost testing ground for posts treated by various methods.

The Watson Springs Forest is located in Greene County and was given

to the University by Colonel J. D. Watson. It is about 25 miles from Athens and contains some 600 acres. Experimental plantings in hardwoods and outplantings for genetics studies have been started. 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 study of species not commonly planted are being carried out on this Forest. The area is also used as a field laboratory for Seniors.

A forest-tree nursery, the oldest publicly-owned nursery in Georgia and probably the oldest in the South, is located in Oconee Forest. It is used primarily for instruction and research in forest-tree improvement by both the School and the U. S. Forest Service. A well-equipped field house and storage buildings are located at the nursery.

A new Forestry Sciences Laboratory is located on the campus near the School of Forestry. This facility houses a resident staff of 16 scientists employed by the U. S. Forest Service Southeastern Forest Experiment Station as associate members of the University faculty. The laboratory is an integral part of the teaching and research programs of the School.

Headquartered in the School of Forestry is a Cooperative Sport Fishery Unit of the U. S. Fish and Wildlife Service. The Unit conducts research and provides instructional services in conjunction with the wildlife management work at the School.

The Georgia Forest Research Council supports several research workers on forestry-related projects at the University. Cooperation among the School, the Research Council, the Georgia Forestry Commission, the Georgia Game and Fish Commission, the U. S. Forest Service, and the U. S. Fish and Wildlife Service is exemplary.

### OPPORTUNITIES FOR CONCENTRATION

The Forestry curriculum represents a minimum core of general and professional course work required of all undergraduate students. Beyond this core there exists ample opportunity for concentration in any phase of forest resource management: timber, wildlife, range, water, or recreation. Through careful choice of elective courses a student of forestry may thus concentrate on a certain phase of land management.

Likewise, students are able to obtain a major in Business Administration, Journalism, or some departments of the College of Arts and Sciences in addition to the major in forestry, with very little extra time at the University.

### FIELD WORK IN FORESTRY

Field work is a most important phase of a well-rounded forestry education. In addition to field laboratories in connection with other courses in the curriculum, one complete quarter in the junior year is devoted exclusively to specialized field training both on the campus and through extended trips to public and private forest management operations and forest product utilization enterprises within the region.

### DEGREES OFFERED BY SCHOOL OF FORESTRY

The School of Forestry offers the degree of Bachelor of Science in Forestry. Through the Graduate School the degrees of Master of Science and Master of Forestry are offered. The Doctor of Philosophy degree in silviculture or forest management or in the sciences related to Forestry is also available.

Students planning to major in Forestry should enter at the beginning

of the freshman year if possible. Those who plan to transfer into the School of Forestry should note carefully the subjects which are prerequisite to the junior year. Most students will find it desirable to transfer to the School no later than the beginning of the fifth quarter so as to be able to complete the degree requirements without loss of time.

### SPECIAL SCHOLARSHIP REQUIREMENTS

High school students who plan to major in forestry in the University will do well to stress English, mathematics, and the sciences in the high school program. In addition to the general University requirements relative to scholarship, the following requirements must be met by all Forestry students:

1. Any student already enrolled in or endeavoring to transfer into the School of Forestry who fails to earn a minimum passing score on the Mathematics Test of the Sophomore Comprehensive Examination will not be permitted to register for additional professional forestry courses until he has satisfactorily completed further formal course work in the Department of Mathematics.

2. At the beginning of their junior year, all students will be examined for English proficiency and if found to be deficient, will be required to take and pass English 101 with a grade of "C" or better, even though credit for this course may have previously been received.

### FEES AND EXPENSES

Field trips form a part of certain courses in the junior year. The expenses of these trips, usually about \$60 per year, must be borne by the student. The amount necessary for books and supplies will vary from \$25 to \$60 per year.

### 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 agriculture 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 an annual field day, a banquet, a dance and the *Cypress Knee*, the Forestry School's annual publication. The Forestry Wives' Club, also known as the Lumber Jills, is an organization which encourages a fuller understanding of the forestry profession on the part of the wives of forestry students.

### 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 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.

THE MAXWELL B. THURMOND LOAN FUND, given in memory of Lt. Col. Maxwell B. Thurmond, class of 1941, is open to students in the School of Forestry.

THE ST. REGIS PAPER COMPANY awards an annual scholarship to an outstanding Junior in the School of Forestry. The scholarship, amounting to \$800, is renewable for the Senior year. It is based on scholarship, leadership, and interest in the forestry profession.

CONTINENTAL CAN COMPANY, INC. OF SAVANNAH AND AUGUSTA awards annual \$1,000 scholarships to incoming freshmen, recipients to come from the wood producing area of that company. The students finally selected are carefully screened by two different committees, selection being based on scholarship, leadership, and personality.

THE RAYONIER CORPORATION awards a scholarship of \$500 to the outstanding senior in the School. The selection is made by the staff of the School and is based on scholarship, leadership, and personality.

THE HOMELITE CORPORATION of New York, manufacturers of chain saws, awards a scholarship of \$500 annually, the recipient being selected by the staff of the school.

THE INLAND CONTAINER CORPORATION awards a scholarship of \$800 per year for four years to children of employees of the Corporation. These scholarships are not restricted to students of Forestry.

REQUIREMENTS FOR GRADUATION

A total of 198 hours, in addition to Military or Air Science and Physical Education, is required for graduation.

Normal residence requirements are 90 hours and the last six quarters immediately preceding graduation.

Examinations on the history of the United States and Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with this history. Courses approved for this purpose are History 100 (5 hours) and 351-352 (10 hours).

REQUIRED CURRICULUM FOR THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY

FRESHMAN YEAR		SOPHOMORE YEAR	
	Hours		Hours
Botany 121-122 .....	10	Agricultural Engineering 111	
Chemistry 121-122 .....	10	(Surveying) .....	5
English 101-102 .....	10	Agronomy 210 (Soils) .....	5
Forestry 191-192-193		Entomology 300	
(Orientation) .....	3	(Introductory Entomology) ..	2
Math 100-101 (Algebra and		Forestry 201-202	
Trigonometry) .....	10	(Dendrology) .....	6
Political Science 101 .....	5	Forestry 203	
Military Science 1 or		(Forest Ecology) .....	3
Air Science 5 .....	6	Geology 125 (Physical) .....	5
Physical Education 1 .....	0	Physics 127 (137)	
		(Mechanics) .....	5
		Speech 108 (Fund. of Sp.) .....	5
		Statistics 200 .....	5
		Elective ** .....	5
		Military Science 2	
		or Air Science 6 .....	6
		Physical Education 2 .....	0

JUNIOR YEAR		SENIOR YEAR	
	Hours		Hours
Ag. Economics 310		Forestry 525 (Harvesting Forest Products)	2
(Applied Econ. of Ag.)	5	Forestry 527 (Forest Products)	2
Forestry 321 (Wood Anatomy)	3	Timber Management:	
Resource Management:		Forestry 541 (Foundations)	5
Forestry 351 (Watershed)	2	Forestry 542 (Finance)	3
Forestry 355 (Recreation)	2	Forestry 547 (Mensuration)	4
Forestry 361 (Game)	3	Forestry 572 (Economics of Forestry)	3
Forest Protection:		Forestry 591 (Forest Administration)	3
Forestry 382 (Insects)	3	Forestry 595 (Informational Methods in Forestry)	3
Forestry 383 (Diseases)	3	Geography 420 (Photogrammetry)	5
Forestry 384 (Fire)	3	Electives **	24
Forestry 301 (Silvicultural Practices)	5*		
Forestry 344 (Forest Measurements)	5*		
Forestry 395 (Forest Resources: (Mgt. and Util.))	5*		
Electives **	11		
	50		54

The following courses are recommended electives for students wishing to concentrate in a given field of resource management.

	Hours
<i>Timber Management</i>	
Botany 380 (Plant Physiology)	5
Forestry 421 (Physical Prop. of Wood)	2
Forestry 449 (Analytic Meth. in For. Mgt.)	3
Forestry 507 (Regional Silviculture)	3
Forestry 548 (Timber Evaluation)	2
Forestry 573 (Forestry Production Economics)	2
Forestry 592 (Operational Probs. in For. Mgt.)	5
<i>Wildlife Management</i>	
Botany 305 (Ident. of Flowering Plants)	5
Forestry 362 (Forest Range Management)	3
Forestry 561 (Wildlife Mgt. Techniques)	3
Forestry 562 (Adv. Prin. of Wildlife Mgt.)	5
Forestry 566 (Mgt. of the Fishery Resource)	5
Zoology 226 (Vertebrate Zoology)	5
Zoology 350 (Nat. Hist. of the Vertebrates)	5
Zoology 353 (Ecology)	5
<i>Watershed Management</i>	
Forestry 404 (Hydrology)	5
Geography 122 (Weather and Climate)	5
Geology 321 (Mineralogy and Crystallography)	5
Mathematics 210 (Analytic Geometry)	5
Mathematics 254 (Calculus)	5
Mathematics 255 (Calculus)	5
Physics 128 (Heat, Sound, and Light)	5
<i>Management for Recreation</i>	
Botany 305 (Ident. of Flowering Plants)	5
Forestry 556 (For. Mgt. for Recreation)	3
Forestry 557 (For. Recreation Area Devel.)	5
Forestry 592 (Operational Probs. in For. Mgt.)	5

\*These courses must be scheduled concurrently, either spring or summer quarter.

\*\*Electives transferred must be approved by the Dean of the School of Forestry.



Journalism 377 (Photojournalism) .....	3
Psychology 101 (Elementary Psychology) .....	5
Sociology 105 (Introductory Sociology) .....	5

## COURSES OFFERED IN SCHOOL OF FORESTRY

All classes meet in Forestry Building except as noted.

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.

**191. FIELDS OF FORESTRY.** 1 hour. *Mr. Herrick.*

Orientation with respect to the several fields of the forestry profession.

**192. DEVELOPMENT OF FORESTRY.** 1 hour. *Mr. Patterson.*

Historical development of forestry in America.

**193. FORESTRY CALCULATIONS.** 1 hour. *Mr. Parker.*

Mathematical and graphic solutions of elementary problems.

**201. DENDROLOGY: HARDWOODS.** 3 hours. Two 3-hour lecture-laboratory periods. Prerequisite: Ten hours of botany. *Mr. Reines.*

Identification, classification, silvical requirements, and distribution of the more important forest trees among the Angiosperms.

**202. DENDROLOGY: CONIFERS:** 3 hours. Two 3-hour lecture-laboratory periods. Prerequisite: Ten hours of botany. *Mr. Bishop.*

Identification, classification, silvical requirements, and distribution of the more important forest trees among the Gymnosperms.

**203. FOREST ECOLOGY.** 3 hours. Prerequisite: Ten hours of botany. *Mr. Jackson.*

Fundamental principles of forest physiology and ecology; effects of the various factors of site upon the characteristics of growth and development of forest stands; forest classification.

## JUNIOR AND SENIOR COURSES

**301. SILVICULTURAL PRACTICES.** Prerequisites: Forestry 203, Agronomy 210. *Mr. May and Staff.*

Theory and techniques of controlling establishment, composition and growth of forest stands; cultural treatments including cutting, use of fire and silvicides.

**321. WOOD ANATOMY AND IDENTIFICATION.** 3 hours. Three laboratory periods. Prerequisites: Forestry 201, 202, *Mr. Hamilton.*

Anatomical features of wood and wood identification by gross and minute structure.

**325. SEASONING AND PRESERVATION.** 2 hours. Prerequisite: Forestry 321. *Staff.*

Pre-drying, air seasoning and kiln drying; preservative treatment.

**344. FOREST MEASUREMENTS.** Prerequisites: Mathematics 101, Agricultural Engineering 111. *Mr. Avery and Staff.*

Field measurements of trees, major forest products, and timber stands; log scaling; timber cruising; growth studies; and preparation of stand and stock tables.

**351. WATERSHED MANAGEMENT.** 2 hours. *Mr. May.*

Forest land management as it affects stability and productivity of soil, runoff and streamflow.

**355. FOREST RECREATION.** 2 hours. *Mr. Moss.*

The place of forest recreation in the multiple-use concept.

**361. GAME MANAGEMENT.** 3 hours. Prerequisite: Botany 375 or Forestry 203. *Mr. Jenkins or Mr. Provost.*

Wild game as a forest resource. The interrelations of game management with other resource use. Game management policy and administration.

**362. FOREST RANGE MANAGEMENT.** 3 hours. Prerequisites: Botany 122 and Forestry 203. *Mr. Jenkins.*

Principles of range management involving use of forest range as a resource; improvement of forest range; ecology of forest range plants.

**382. (ENTOMOLOGY) FOREST PROTECTION: INSECTS.** 3 hours. Three laboratory periods. Prerequisites: Forestry 201, 202. *Mr. Tsao.*

Biology, identification, and control of the species of insects destructive to American forests.

383. (PLANT PATHOLOGY) FOREST PROTECTION: DISEASES. 3 hours. Three laboratory periods. Prerequisites: Botany 121, 122. *Mr. Boyce.*

An introduction to the diseases of forest trees; identification and control.

384. FOREST PROTECTION: FIRE. 3 hours. Prerequisite: Forestry 203. *Mr. Bishop.*

Causes, effects, and methods of controlling wildfire.

392. FOREST HISTORY AND POLICY. 2 hours. *Mr. Patterson.*

Development of forestry and forest legislation leading to the present American forest policies.

394. GENERAL FORESTRY. Four lectures and one laboratory period. Prerequisite: Junior standing. Not open to forestry students. *Mr. Parker.*

Relation of forests to economic strength. Renewable vs. non-renewable resources. Introduction to forestry practices.

395. FOREST RESOURCES: MANAGEMENT AND UTILIZATION. *Staff.*

Intensive study of public and private forestry operations and utilization enterprises.

### JUNIOR-SENIOR OR GRADUATE COURSES

401. (BOTANY) PHYSIOLOGY OF WOODY PLANTS. Three lectures and two double laboratory periods. Prerequisites: Botany 380, Forestry 203, or Horticulture 308. *Mr. Brown.*

Special topics in water relations, nutrition, photosynthesis, shoot and root development, dormancy, cambial activity, and reproduction in woody plants.

402. FOREST SOILS. Three lectures and two laboratory periods. Prerequisites: Agronomy 210, Forestry 203. *Mr. May.*

Morphological, physical, and chemical properties of soils in relation to growth of forest trees; classification of soil profiles and site index; appraisal of the soil conditions on forest properties.

403. FOREST TREE IMPROVEMENT. 3 hours. Two lectures and one laboratory period. Prerequisite: Forestry 301. *Mr. Reines.*

The genetic inference in forest tree improvement; breeding and progeny testing; quality seed production; vegetative propagation.

404. HYDROLOGY. Two lectures and three 2-hour laboratory periods. Prerequisites: Forestry 203 and ten hours of Physics. *Mr. Shear or Mr. May.*

Administration and regulation of the aggregate resources of a drainage basin; control of erosion, streamflow, and floods. Flood control surveys.

421. PHYSICAL PROPERTIES OF WOOD. 2 hours. Two laboratory periods. Prerequisite: Forestry 321. *Mr. Hamilton.*

The physical nature of wood, including moisture, heat, light, sound, and electrical relations.

422. MECHANICAL PROPERTIES OF WOOD. 3 hours. Two lectures and one laboratory period. Prerequisites: Forestry 321. *Mr. Hamilton.*

Strength and other characteristics of commercial woods as related to growth and utilization; examination of standard testing procedures.

449. ANALYTIC METHODS IN FOREST MANAGEMENT. 3 hours. Prerequisites: Mathematics 254, 255. *Mr. Clutter.*

Selected techniques for mathematically describing and optimizing the operation of forestry enterprises. Emphasis on construction of mathematical models, linear programming, computer simulation, and decision theory.

471. ECONOMIC ANALYSIS IN FORESTRY. 3 hours. Prerequisite: Forestry 572. *Mr. Parker.*

Current economic theory as a tool in the analysis of problems in forest production, utilization, and distribution.

481. FOREST FIRE BEHAVIOR AND USE. 3 hours. Prerequisites: Forestry 384 and ten hours of physics. *Mr. Bishop or Mr. Shear.*

Ignition, combustion, heat transfer, the convection column, living and dead fuels, fire weather and climatology, danger ratings. Prescribed burning techniques and effects.

501. FOREST INFLUENCES. 2 hours. Prerequisites: Agronomy 210 and Forestry 203. *Mr. Jackson.*

Influence of forests on climate, soil, streamflow, erosion, water conservation, and site productivity.

503. REFORESTATION. 3 hours. Two lectures and one laboratory period. Prerequisites: Agronomy 210 and Forestry 203. *Mr. May.*

Fundamentals and practices involved in artificial regeneration. Seed production, collection, extraction, testing, and storage; nursery management; site preparation; direct seeding, and planting.

504. PRINCIPALS OF MICRO-MEASUREMENTS. 2 hours. Two laboratory periods. Prerequisite: Forestry 321. *Mr. Hamilton or Mr. Jackson.*

Microtechniques used in the study of wood elements, characteristics, and behavior.

507. REGIONAL SILVICULTURE. 3 hours. Prerequisite: Forestry 301. *Mr. Jackson.*

Application of silvicultural methods in the forest regions of the United States.

525. HARVESTING FOREST PRODUCTS. 2 hours. Prerequisites: Forestry 301, 344, 395. *Staff.*

Equipment, methods, and transportation; cost analyses.

526. NAVAL STORES. 3 hours. Prerequisites: Forestry 301, 321. *Mr. Bishop*  
History, economics, chemistry, and processing of naval stores; physiology of oleoresin synthesis; field practices of gum naval stores industry.

527. FOREST PRODUCTS. 2 hours. Prerequisite: Forestry 321. *Staff.*

Technology, manufacture, and use of forest products.

541. TIMBER MANAGEMENT: FOUNDATIONS. Prerequisites: Forestry 301, 547. *Mr. Patterson.*

Principles of forest regulation. Business and other objectives of management.

542. TIMBER MANAGEMENT: FINANCE. 3 hours. Prerequisite: Forestry 541. *Mr. Bamping.*

Valuation of forest land, growing stock, and stumpage; financial alternatives; liquidation vs. sustained yield.

543. FOREST INVENTORY CONTROL. 2 hours. One lecture and one laboratory period. Prerequisites: Forestry 301, 547. *Mr. Bamping.*

Field data collection, machine processing, and analysis for continuous control.

544. SILVIMETRIC METHODS. Prerequisite: Forestry 547. *Mr. Bamping.*  
Application of statistical techniques, graphical mathematics, and empirical formulae to all branches of forestry.

545. FOREST MANAGEMENT PLANS. Prerequisites: Forestry 301, 547, 541. *Mr. Patterson.*

Preparation of a management plan for a forest property, including surveying, map making, data collection. Presentation format must meet professional standards.

546. ADVANCED AERIAL PHOTO INTERPRETATION. Five 2-hour laboratory periods. Prerequisite: Geography 420 or equivalent. *Mr. Avery.*

Laboratory instruction on individualized photogrammetric problems related to the major interests of the students. Mastery of advanced photogrammetric instruments. Same as Geography 422.

547. FOREST MENSURATION. 4 hours. Two lectures and two laboratory periods. Prerequisites: Forestry 344 and Statistics 200. *Mr. Avery.*

Volume determination of major forest products, trees, and stands; stand density analysis; growth and yield studies; sampling methods; graphical and statistical analysis.

548. TIMBER EVALUATION. 2 hours. Prerequisite: Forestry 547. *Mr. Bamping.*

Timber appraisal, stumpage quality evaluation; damage appraisal.

556. FOREST MANAGEMENT FOR RECREATION. 3 hours. Prerequisites: Forestry 355, Psychology 101, Sociology 101. *Mr. Moss.*

Basic methods of manipulating the forest resources for optimum recreation benefits.

557. FOREST RECREATION AREA DEVELOPMENT. Prerequisites: Forestry 355, 556. *Mr. Moss or Mr. Reines.*

Development and management of forest recreation facilities.

561. WILDLIFE MANAGEMENT TECHNIQUES. 3 hours. Two lectures and one laboratory period. Prerequisites: Forestry 361 or Zoology 353. *Mr. Jenkins or Mr. Provost.*

Field and laboratory techniques commonly required of professional wildlife workers.

562. ADVANCED PRINCIPLES OF WILDLIFE MANAGEMENT. Prerequisite: Forestry 561 or permission of instructor. *Mr. Jenkins or Mr. Provost.*

Application of the principles of animal and plant ecology to the biological basis of wildlife management and its coordination with other land uses on upland and wetland habitats.

566. MANAGEMENT OF THE FISHERY RESOURCE. Three lectures and two double laboratory periods. Prerequisites: Forestry 361, Zoology 350. *Mr. Huish.*

Application of principles concerning: the dynamics of fish populations, environment, conservation, and usage by man.

571. MARKETING FOREST PRODUCTS. 2 hours. Prerequisite: Forestry 572. *Mr. Parker.*

Economics of marketing forest products; analysis of cooperatives; techniques for improving marketing efficiency.

572. ECONOMICS OF FORESTRY. 3 hours. Prerequisite: Agricultural Economics 310 or equivalent. *Mr. Parker.*

Demand for forest products and services; economics of production, utilization, and distribution; forest taxation and insurance; social aspects of forestry.

573. FORESTRY PRODUCTION ECONOMICS. 2 hours. Prerequisite: Forestry 572. *Mr. Parker.*

Economic factors involved in management decisions with respect to uses of land, labor, and capital; input-output relationships; determination of profits.

591. FOREST ADMINISTRATION. 3 hours. Prerequisite: 20 hours of Forestry courses. *Mr. Patterson.*

Problems, policies and procedures applicable to administration of personnel; human relations; supervisory techniques; professional ethics.

592. OPERATIONAL PROBLEMS IN FOREST MANAGEMENT. Prerequisites: 20 hours of Forestry courses, with C+ average or better. *Mr. Hargreaves.*

Problems associated with present-day forestry enterprises. Specific operational problems will be presented and analyzed by specialists from industry and government. The case method will be used.

594. PRINCIPLES AND PRACTICES OF FORESTRY. Four lectures and one laboratory period. Prerequisite: Forestry 394 or equivalent. *Mr. Parker.*

The role of forestry in land use. Underlying biological principles and cultural practices; measuring and marketing forest products; economics of forest investment and management. Oriented toward small forest holdings. Not open to forestry students.

595. INFORMATIONAL METHODS IN FORESTRY. 3 hours. Prerequisite: 20 hours of Forestry courses. *Mr. Patterson.*

Procedures and techniques for use of various media essential to disseminating forestry information to the public.

598. FORESTRY PROBLEMS. 3 hours. Prerequisites: Senior standing and a cumulative average of 80. *Staff.*

Assigned or selected problems in the field of forestry. A written report is required. Not open to students having credit in Forestry 599.

599. FORESTRY PROBLEMS. Prerequisites: Senior standing and a cumulative average of 80. *Staff.*

Assigned or selected problems in the field of forestry. A written report is required. Not open to students having credit in Forestry 598.

## GRADUATE COURSES

For all undergraduate Forestry courses in the 400 and 500 series, listed in the preceding section, there are graduate courses under corresponding numbers in the 600 and 700 series. For example, Forestry 401 is offered at the graduate level as Forestry 601. In addition to these dual-level courses, the following exclusively graduate courses are offered.

801-802-803. PROBLEMS IN SILVICULTURE. 5 hours each. *Mr. Bishop, Mr. Jackson, Mr. May, or Mr. Reines.*

Application of basic factors such as soils, nutrients, water, light and fire, to the improvement of silvicultural practices through studies of anatomy, physiology, genetics and ecology.

821-822-823. PROBLEMS IN WOOD TECHNOLOGY AND UTILIZATION. 5 hours each. *Mr. Hamilton, or Staff.*

Anatomical, chemical, physical, or mechanical properties of wood as related to product technology and utilization. Research in the mensuration and economics of utilization.

841-842-843. PROBLEMS IN FOREST MANAGEMENT. 5 hours each. *Mr. Avery, Mr. Bamping, Mr. Clutter, Mr. Hargreaves, Mr. Jenkins, Mr. Moss, Mr. Parker, Mr. Patterson, or Mr. Provost.*

Fundamental studies in the mensurational, economic, business, or biological aspects of forest resource management.

881-882. PROBLEMS IN FOREST PROTECTION. 5 hours each. *Mr. Boyce, Mr. Jackson, Mr. Jenkins, Mr. Shear, or Mr. Tsao.*

Basic investigations of agencies damaging or destructive to the forest, primarily fire. (Additional graduate work in forest protection is available in the Department of Entomology and the Department of Plant Pathology and Plant Breeding.)

921. APPLIED RESEARCH IN FORESTRY. *Staff.*

Provides individual guidance in the development of a significant project related to the student's major field of study. A written report presented in a format meeting professional standards must be submitted and subjected to review by an appropriate faculty committee.

930. THESIS.

# THE COLLEGE OF EDUCATION

JOSEPH ANDERSON WILLIAMS, A.B., M.S., M.Ed., Ed.D., *Dean*  
MARION JENNINGS RICE, A.B., M.A., Ed.D., *Assistant to the Dean*

## GENERAL INFORMATION

The George Peabody College of Education is the division of the University of Georgia which provides and administers all professional courses designed for the preparation of teachers and other educational workers. It has the fundamental responsibility of contributing to the continued improvement of the entire public educational system of Georgia. In performing the role of educational leadership, the College of Education has responsibilities for recruiting and selecting prospective educational workers, providing high quality pre-service and in-service training programs for these workers, conducting research needed to solve educational problems in Georgia, and providing appropriate field services to the public schools and colleges of the State.

## HISTORY

The College began in 1903 with the organization of a new Department of Philosophy and Education, which, in 1908, became the School of Education. In 1911, a grant from the Peabody Education Fund made possible the erection and equipping of a building for the Peabody School of Education of the University of Georgia. In 1931, the professional educational functions of the University were centralized in the College of Education. In 1962 the University Council for Teacher Education was established to utilize and coordinate resources of the University in the preparation of teachers.

## DEGREES

The College offers the following degrees: (a) Undergraduate; Bachelor of Science in Education; (b) Graduate; Master of Arts (Education), Master of Education, and Doctor of Education.

## HONOR SOCIETIES

Students registered in the College of Education whose program of work shows an emphasis on liberal education are considered 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.

The four national education honor societies with local chapters are: Kappa Delta Pi, Kappa Delta Epsilon, Kappa Phi Kappa, and Phi Delta Kappa.

## SPECIAL SERVICES

Service facilities of the College of Education, exclusive of instruction, include: Office of Educational Research, the Bureau of Educational Studies and Field Services, Clinics, and Counseling Service.

## OFFICE OF EDUCATIONAL RESEARCH

The Office of Educational Research, headed by a Coordinator, coordinates basic and applied research and demonstration projects, maintains contact

with supporting agencies, and encourages and otherwise facilitates educational research in the College of Education.

### 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.

### CLINICS

**SPEECH AND HEARING CLINIC.** The Speech Correction Area is concerned with training of teachers and the conducting of research in speech correction. As a part of this process, the Speech and Hearing Clinic extends its services to all children and adults who have functional or organic problems of oral communication. Particular attention is given to assisting University students. The speech or hearing problems are diagnosed and a program for corrective treatment is set up on an individual or group basis. Arrangements for these services are made through the Chairman of Speech Correction.

**CLINIC 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.

**READING CLINIC.** The Reading Clinic is concerned with the education of teachers of reading and the conducting of research in reading. This Clinic offers both diagnostic and corrective service to elementary and high school pupils. Reading problems are diagnosed, and corrective procedures are suggested. Group or individual corrective sessions are conducted in some instances.

**OTHER CLINICS.** Other clinics may 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.

### COLLEGE OF EDUCATION COUNSELING SERVICE

The College of Education through the office of the Coordinator of Student Personnel Services operates a counseling clinic for the convenience of students enrolled in the College of Education. Qualified counselors are available to help students with professional and personal problems. Personal data folders, developed primarily in group guidance situations in Education 103 and 303 and supplemented by instructors in succeeding education courses, will be on file in the Guidance Office.

As soon as a student enrolls in the College of Education, he will be assigned a faculty adviser who will assist him in educational planning. These faculty advisers will have access to certain information contained in the personal data folders.

## INSTRUCTION FOR NON-RESIDENT STUDENTS

To facilitate the professional certification of teachers, the College of Education provides special instructional opportunities for teachers.

These services include: Off-Campus Workshops throughout the State, the Atlanta-Area Teacher Education Service, and, in Athens, Saturday Classes, late afternoon and evening classes, and week-end workshops.

In addition to group instruction, opportunities for individual training under supervision are provided by Education 421-521, Special Problems in Education, and Education 746, Internship.

### OFF-CAMPUS WORKSHOPS

Upon request of county or independent system school officials the College of Education may conduct 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 are 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. See Education W-560-W-760.

### THE ATLANTA AREA TEACHER EDUCATION SERVICE

The College of Education of the University of Georgia and Emory University, in cooperation with school systems in the Atlanta area, constitute the Atlanta Area Teacher Education Service. The Atlanta Area Teacher Education Service pools the resources of the two institutions in providing a program of instruction for the teachers in the Atlanta area. Courses are offered on both 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.

For further information, write to: The Coordinator, AATES, Emory University, Atlanta 22, Georgia.

### 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.

### CLASS ROOM TEACHER WORK CONFERENCE

This conference provides graduate in-service study for teachers carrying five hours credit. Five week-end sessions are held on campus during the academic year. Participants are required to do research and experimentation between sessions and submit a final report. The conference is sponsored by the College of Education, the Center for Continuing Education, and the Department of Classroom Teachers of the Georgia Education Association.

## GRADUATE DIVISION

### CURRICULA

The Graduate Division provides for the training of the following: (1) Elementary School Teachers, (2) Elementary School Principals, (3) Secondary School Teachers, (4) College Teachers, (5) Secondary School

Principals, (6) School Superintendents, (7) Counselors, (8) School Psychologists, (9) Supervisors and Supervising Teachers, (10) Visiting Teachers, (11) Teachers in special fields such as Health and Physical Education, Industrial Arts, Agriculture, Home Economics, Business Education, Education for Exceptional Children, and Reading.

### GRADUATE DEGREES IN EDUCATION

Graduate students in education may qualify for either of two degrees at the master's level, depending on their educational interests. The degree Master of Arts (Education) requires a thesis and a minimum of forty hours. The degree Master of Education has two options. Option A requires a minimum of fifty-five hours, including a research project in applied education. Option B requires a minimum of sixty hours. Students who contemplate advanced graduate work should write a thesis because of the training provided in techniques of scholarly research.

A candidate for the degree of Master of Arts (Education) or the degree of Master of Education who plans to teach a high school or college subject is expected to plan for appropriate course concentrations in that teaching field.

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.

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.

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.

The satisfactory completion of four undergraduate courses in education is a prerequisite of any course in education for graduate credit.

The specific requirements for a graduate degree are given in the Graduate School section of the General Catalogue, as follows:

- Master of Arts (Education), page 119
- Master of Art Education, page 124
- Master of Education, page 124
- Doctor of Education, page 127

### GRADUATE PROGRAMS FOR TEACHER CERTIFICATION

(see page 129)

## UNDERGRADUATE DIVISION

Undergraduate programs at the University of Georgia prepare teachers and other educational workers in the following fields: agricultural education; art education; business education; distributive education; elementary education; kindergarten; health and physical education; recreation; home economics; industrial arts; teachers of grades 7, 8, and 9; teachers of the mentally retarded and motor handicapped; music education; secondary education in English, mathematics, foreign language, science, or social studies; teachers of modern foreign languages, (elementary and secondary education); school librarian; speech correction; and trade and industrial education.



The entire resources of the University of Georgia are utilized in the education of teachers. The College of Education administers all courses in professional education (EDU) and provides teaching fields in Industrial Arts (IA), Health, Physical Education, and Recreation (PED), and Library Education (LIB), and some courses in Special Education. Other courses in teacher preparation programs are taught by other divisions of the University.

All undergraduate teacher preparation programs have the following three characteristics: (1) general education, a sequence of courses from a variety of fields, taken primarily in the College of Arts and Sciences in the freshman and sophomore years; (2) the teaching field or major, consisting of courses designed for the specific subject or grade level of prospective teaching, offered in the College of Agriculture, College of Arts and Sciences, College of Business Administration, College of Education, and School of Home Economics; and (3) work in professional education, in the College of Education.

Most students who prepare for teaching matriculate in the College of Education and pursue one of the programs leading to the degree Bachelor of Science in Education. In three fields, students matriculate in other colleges: College of Agriculture, Bachelor of Science in Agriculture, agricultural education; College of Arts and Sciences, Bachelor of Music, music education; and School of Home Economics, Bachelor of Science in Home Economics, home economics education. An optional program in home economics education leads to the degree Bachelor of Science in Education in the College of Education. There are also alternate professional programs leading to a degree from the College of Arts and Sciences in the following fields: general secondary, Bachelor of Arts or Bachelor of Science; and major in art education, speech and drama education (English concentration), and speech correction, Bachelor of Fine Arts.

A distinction is made between matriculation in a division of the University offering teacher education programs and formal admission to a program in teacher education, as described in "Procedures for Admission."

### UNDERGRADUATE PROFESSIONAL SEQUENCE

The basic undergraduate professional sequence consists of Education 103 or 303, 304, 335, 336, and 346, 347, 348. In addition, Education 201 is required for elementary majors.

Education 103 is an orientation to professional education taken once a week for six quarters during the freshman and sophomore years, and is the only course in professional education taken prior to formal admission to teacher education. Other courses in the undergraduate professional sequence are taken only after admission to teacher education. Education 303 is required of transfer and other students who have not had Education 103 or the equivalent and is taken twice a week for three quarters in the junior year. Education 304 is generally taken in the junior year. Education 335 and 336, dealing with the application of curriculum and methods, are usually taken concurrently in the senior year in the quarter preceding a full quarter of student teaching. Education 346, 347, and 348 are student teaching.

The prospective teacher should follow carefully the program in his field of preparation. No deviations should be made without the approval of the student's adviser. The student should particularly note that electives in professional programs are not "free" electives but are "approved electives" related to the teaching field.

## STUDENT TEACHING

Supervised observation and student teaching in Cooperating Laboratory Schools are required of candidates for a degree from the College of Education. An alternate plan is available for persons with one or more years of teaching experience.

Student teaching is articulated with instruction in general and specific methods under the direction of competent supervising teachers. High school student teachers teach in their teaching field; elementary, by grade.

Elementary school teachers are required to spend at least one period of two weeks in a public school during late August and early September prior to their student teaching. This "September Experience" familiarizes the student with teaching problems at the beginning of a regular school year.

### PROCEDURES FOR ADMISSION

#### STEP 1: ADMISSION TO THE COLLEGE OF EDUCATION.

An applicant who meets University admissions requirements and is admitted for his first registration in the University will be enrolled in the College of Education if he so designates. An applicant who wishes to transfer from another School or College within the University will secure permission of the Dean of the school in which he is registered, and make application to the Dean of the College of Education no later than mid-way of the quarter preceding the effective date of the transfer. He may be admitted for enrollment in the College on the basis of an appraisal of his total record. Enrollment does not constitute admission as a candidate for the professional degree in education.

#### STEP 2: ADMISSION TO TEACHER EDUCATION PROGRAM.

Admission to teacher education programs is determined on the basis of: academic achievement, physical fitness, competence in oral and written expression, promise of success in teaching, and completion of required examinations. At the completion of 90 quarter hours college credit, each student who seeks a professional teaching degree must apply for admission into the teacher education program to the Dean of the College of Education. Directions for application may be secured from the Dean's office. The University requirements for examinations on the history and constitutions of the United States and Georgia must be met before admission to teacher education.

#### STEP 3: ADMISSION TO ENROLLMENT IN EDUCATION 335 AND 336.

The final five courses (Education 335, 336, 346, 347, 348) are taken in the order listed, near the completion of the curriculum in teacher education. Before enrollment in Education 335, the student will have completed the prerequisites in Education courses and essentially all required courses in his teaching field. One quarter before the date of enrollment in Education 335, the student will file application with the Chairman of the teaching area in which he wishes to enroll. Application data will include the complete academic record to date and the previously assembled personnel record, supplemented by interviews and such further evidence of aptitude for teaching in this field as the Chairman may require. The applicant may be admitted for enrollment in this course, or he may be rejected; or he may be advised to complete further study or other procedures for improvement, and to reapply.

#### STEP 4: ADMISSION TO EDUCATION 346, 347, AND 348.

Application for student teaching must be made by students through

the Coordinator of Professional Laboratory Experiences at least one quarter before they expect to do student teaching.

In order to be eligible for student teaching, the prospective teacher must have completed all, or almost all, of his teaching field courses. He must have a grade of C or above in required education and in teaching field courses. Furthermore, any student deficient in such skills as reading, writing, speaking, and number computations will be deferred from student teaching until such deficiency is corrected.

### DEGREE REQUIREMENTS

The degree requirements for the University applicable to the College of Education are given in the "General Information" section of the *General Catalogue*. Students registered in the College of Education should be thoroughly familiar with these requirements, which are controlling unless otherwise amended in this section.

### RESIDENCE

The minimum residence requirement for the degree Bachelor of Science in Education is 90 quarter hours. Of the 90 quarter hours, at least 45 quarter hours must be in senior division courses and at least 30 quarter hours of senior division courses must be taken in residence on campus during the senior year. For variation in residence requirements for students presenting college work earned before September 1960, see index "Degree Requirements."

### CORRESPONDENCE AND EXTENSION WORK

Not more than 45 quarter hours by correspondence or extension may be counted toward the degree Bachelor of Science in Education. Work taken at off-campus centers is classified as extension.

### ACADEMIC RECORDS

All students are required to give the photostatic copy of their credits, placed in the registration envelope at Fall Quarter Registration, to the Dean at registration. This transcript is filed in the student's folder in the Dean's office. Failure to turn in the transcript may cause a delay in checking for graduation and may prevent him from being recommended to prospective employers.

### PROGRAMS FOR SUPERIOR STUDENTS

The College of Education, in cooperation with the College of Arts and Sciences, seeks to provide academically challenging programs for the superior student. In addition to the exemption of courses by examination, there are opportunities for independent and honors study.

### EXEMPTION OF COURSES

The exemption of introductory courses in the general education sequence, with or without credit, provides an opportunity to shorten the period of residence or to enrich a program by taking work at a higher level. See index.

### ADVANCED PLACEMENT PROGRAM OF THE COLLEGE ENTRANCE EXAMINATION BOARD

High school students are encouraged to participate in the advanced placement programs of the CEEB, take the examinations, and secure credit or course exemption. See index.

## INDEPENDENT STUDY

Junior and senior students are encouraged to pursue independent study in their major or teaching field. See index.

## HONORS PROGRAM

Qualified students are encouraged to participate in both the Junior and Senior Division Honors Programs of the College of Arts and Sciences. See index.

## GRADES

A candidate for the degree Bachelor of Science in Education must have an average of "C" —73— in all work attempted (excluding PED 1-2) and may not have grades below "C" in more than 45 quarter hours. In addition, he may not count for degree purposes any grade of less than "C" in the prescribed education and teaching field courses.

## UNDERGRADUATE PROGRAMS FOR TEACHER CERTIFICATION

(LISTED ALPHABETICALLY)

Undergraduate teacher-education programs are approved by the State Board of Education and the National Council for the Accreditation of Teacher Education. A person completing any one of these programs may be recommended for a four-year professional certificate. For further information concerning certification in Georgia, see the State Department of Education bulletin "Certification of Teachers."

Unless otherwise indicated, the programs outlined lead to the degree of Bachelor of Science in Education with a major in the field specified.

Provisions for professional certification are also available in other programs at the University: In the College of Arts and Sciences, general secondary school teachers, Bachelor of Arts and Bachelor of Science degrees; major in art education, Bachelor of Fine Arts; major in music education, Bachelor of Music; major in speech and drama education (English concentration), and major in speech correction, Bachelor of Fine Arts. In the College of Agriculture, major in agricultural education, Bachelor of Science in Agriculture. In the School of Home Economics, major in home economics education, Bachelor of Science in Home Economics.

BACHELOR OF SCIENCE IN AGRICULTURE WITH A MAJOR  
IN AGRICULTURAL EDUCATIONMR. TOLBERT, *Chairman*

## FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
Agricultural Economics 104 .....	3	Agricultural Economics 110 .....	3
Agronomy 101 .....	3	Agricultural Engineering 220 .....	3
Animal Husbandry 101 or		Agronomy 210 .....	5
Dairy 103 .....	3	Chemistry 260 .....	5
Botany 121, 122, and Zoology		Speech 108 .....	5
225, 226 (3 of the 4) .....	15	Mathematics 100 .....	5
Chemistry 121, 122 .....	10	Physics 120 .....	5
English 101-102 .....	10	Political Science 101,	
Military Science 1 or		History 100 .....	10 (a)
Air Science 5 .....	6	Poultry 160 .....	3
Physical Education 1 .....	0	Electives 2-12 .....	(b)
		Military Science 2 or	
		Air Science 6 .....	6
		Physical Education 2 .....	0
	—		—
	50		52

JUNIOR AND SENIOR REQUIREMENTS

	Hours		Hours
Science Selections .....	25	Major .....	25
Education 304 or 455, and	5	Education 335.1 .....	5
four of the following		Education 336.1 .....	5
courses:		Education 346.1, 347.1,	
Bacteriology 350 .....	5	348.1 .....	15
Plant Pathology 353 .....	5	Special Requirements .....	19
Plant Pathology 358 .....	5	Education 349.1 .....	3
Entomology 374 .....	5	Agricultural Engineering	
Sociology 431 or 433 .....	5	203 .....	5
Minor No. 1 .....	10	Agricultural Engineering	
Agricultural Economics 301	5	207 .....	5
Agricultural Economics 304	5	Forestry 394 .....	5
Minor No. 2 .....	10	Education 103 .....	1
Selected from any depart-		Electives .....	5
ment of the University			
subject to the approval			
of the adviser.			
Special Requirements .....	10		
Animal Husbandry 373 .....	5		
Food Technology 409 .....	5		
	55		49

(a) May be satisfied by passing the Constitution Examination and the Examination on American and Georgia History.  
 (b) As determined by the extent to which Political Science 101 and History 100 are satisfied by passing the prescribed examinations.

ART EDUCATION

MR. BURGART, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	Art 120, 130, 140 .....	15
English 121-122 .....	10	Art 216, 217, 218 .....	9
Political Science 101 .....	5	Art 287, 288, 289 .....	9
Speech 108 .....	5	Education 201 .....	3
Mathematics 100 .....	5	History 111-112 .....	10
Zoology 101-102 .....	10	Physical Science 101,	
(or related substitute)		Geography 104, or	
Mil. Sci. or Air Science .....	12	Geography 101 .....	5
Phys. Ed. (for men) .....	0		
(for women) .....	10	Total .....	96-108

(a) JUNIOR AND SENIOR REQUIREMENTS

	Hours		Hours
Art 260, 261, 361 .....	5	Education 303 .....	5
Art 308, 310, or 504 .....	5	Education 304 .....	5
Art History or Art 386 .....	10	Education 335.9 .....	5
Art 513 .....	5	Education 336.9 .....	5
		Education 346, 347, 348 .....	15
		(a) Electives .....	40
		(to be approved by Adviser)	
		Total .....	100

(a) Senior Division electives now provide an opportunity for the prospective art teacher to have a second teaching field.

## BUSINESS EDUCATION

MR. CALHOUN, *Chairman*

## FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	English 121-122 .....	10
Speech 108 .....	5	History 111-112 .....	10
Political Science 101 .....	5	Psychology 101 .....	5
Zoology 101-102, Botany		Economics 105-106 .....	10
121-122 .....	10	Business Administration 110-111	10
Mathematics 100 .....	5	Business Administration 108 .....	5
Education 103 .....	5	Military Science 2 or	
Physical Science (a) .....	5	Air Science 6 .....	6
Military Science 1 or		Physical Education 2 (for men) ..	0
Air Science 5 .....	6	or	
Physical Education 1 (for men) ..	0	Physical Education 2	
or		(for women) .....	5
Physical Education 1			
(for women) .....	5		
	50-51		50-51

## JUNIOR AND SENIOR REQUIREMENTS

	Hours
Education 304, 335.7, 336.7 .....	15
Education 346.7, 347.7, 348.7 .....	15
Industrial Arts 332, Art 305, or Fine Arts 300 .....	5
Business Education 300, 301, 302 .....	9
Business Education 303, 304, 305 .....	6
Business Education 307 .....	3
Business Education 310 .....	5
Business Education 311 .....	5
Business Administration 311 .....	5
Business Administration 370 .....	5
Economics 312, 360 .....	10
Electives .....	13
	96

(a) Chemistry 111 or 121, Geology 125, Geography 104, 121 or 122, Physics 127 or Physical Science 101.

## ELEMENTARY SCHOOL TEACHERS

MRS. SUTTON, *Chairman*

This program leads to a certificate to teach in the elementary schools from kindergarten through the seventh grade (a).

## FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	English 121-122 .....	10
Social Science (b) .....	15	Speech 108 .....	5
Science (c) .....	10	Geography 101 .....	5
Mathematics 100 .....	5	History 351-352 .....	10
Political Science 101 .....	5	Science (c) .....	10
Education 103 .....	3	Fine Arts 300 .....	5
Military Science 1 or		Education 103 .....	2

Air Science 5 .....	6	Military Science 2 or	
Physical Education 1		Air Science 6 .....	6
(for men) .....	0	Physical Education 2	
or		(for men) .....	0
Physical Education 1		or	
(for women) .....	5	Physical Education 2	
		(for women) .....	5
	<hr/>		<hr/>
	53-54		52-53

JUNIOR AND SENIOR REQUIREMENTS (d)

	Hours		Hours
Art 305 .....	5	Education 401 .....	5
Music 302 .....	5	Mathematics 502 .....	5
Health Education 344 .....	3	Education 335.4 .....	5
Physical Education 307 .....	5	Education 336.4 .....	5
Education 331 .....	3	Education 346-7-8.4 .....	15
Education 201 .....	3	Teaching Field	
Education 304 .....	5	Electives .....	10
Teaching Field			
Electives .....	20		
	<hr/>		<hr/>
	49		45

(a) The program in elementary education consists of a double major—general elementary and a teaching area. The general elementary major consists of Art 305, Edu 331, Edu 401, Music 302, Mat 502, Ped 307 and Ped 344. The teaching area consists of courses in a subject field, such as English, mathematics, science, social science, and modern foreign languages. The category of teaching field elective totals thirty quarter hours and is to be used to develop proficiency in one or two teaching areas.

(b) Fifteen hours in Social Science, to be selected from History 111-112, Ant 102, Ecn 105, Soc 105, Soc. Sc. 104, during freshman-sophomore years.

(c) A minimum of 20 hours in science is required as a part of general education. Two options are available. Option I consists of: Zoo 101-102 (non-laboratory) and Chem 111-112 or 121-122, Gly 125-126, or Pcs 127-128 (laboratory). Option II consists of: Bot 121-122 or Zoo 225-226 (laboratory) and Pcs 120 and Ggy 104 (non-laboratory). A student must follow either Option I or Option II, both of which provide for ten hours in biological science and ten hours in physical science.

(d) Approved September School Experience required prior to Student Teaching.

NURSERY AND KINDERGARTEN TEACHERS

MRS. SUTTON, *Chairman*

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	English 121-122 .....	10
Social Science (a) .....	5	Social Science (a) .....	10
Science (b) .....	10	Science (b) .....	10
Mathematics 100 .....	5	History 351-352 .....	10
Political Science 101 .....	5	Education 103 .....	2
Speech 108 .....	5	Education 201 .....	3
Geography 101 .....	5	Music 171 (c) .....	2

Education 103 .....	3	Military Science 2 or	
Military Science 1 or		Air Science 6 .....	6
Air Science 5 .....	6	Physical Education 2 (for men) ..	0
Physical Education 1 (for men) ..	0	Physical Education 2	
Physical Education 1		(for women) .....	5
(for women) .....	5		
	<hr/>		<hr/>
	53-54		52-53

## JUNIOR AND SENIOR REQUIREMENTS (d)

	Hours		Hours
Art 305 .....	5	Home Economics 492 .....	5
Music 302 .....	5	Home Economics 591	
Health Education 344 .....	3	or	
Speech 593 .....	5	Physical Education 307 .....	5
Fine Arts 300 .....	5	Home Economics 594 .....	5
Home Economics 293 .....	5	Education 401 .....	5
Psychology 490 .....	5	Education 335.4-336.4 .....	10
Education 331 .....	3	Education 346.4, 347.4, 348.4	
Psychology 101 .....	5	(at Kindergarten level)	
Electives .....	5	or	
		Home Economics 311 b-312 b	
		Nursery School Practician	
		and Education 517, Problems	
		of Teaching .....	15
		Electives .....	5
	<hr/>		<hr/>
	46		50

(a) See footnote (b) Elementary School Teachers, preceding page.

(b) See footnote (c) Elementary School Teachers, preceding page.

(c) A screening test in piano playing may be taken in lieu of Music 171. Approved electives may be substituted.

(d) Approved September School Experience required prior to Student Teaching.

## DISTRIBUTIVE EDUCATION

MR. CALHOUN, *Chairman*

## FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	English 121-122 .....	10
Mathematics 100 .....	5	Art 305, Fine Arts 300,	
Zoology 101-102 or		or Industrial Arts 332 .....	5
Botany 121-122 .....	10	Psychology 101 .....	5
Physical Science (a) .....	5	Economics 105-106 .....	10
Political Science 101 .....	5	Business Administration	
Speech 108 .....	5	110-111 .....	10
Education 103a, b, c, .....	2	History 111 or 112 .....	5
Military Science 1 or		Education 103d, e, f .....	3
Air Science 5 .....	6	Military Science 2 or	
Physical Education 1		Air Science 6 .....	6
(for men) .....	0	Physical Education 2	
or		(for men) .....	0
Physical Education 1		or	
(for women) .....	5	Physical Education 2	
		(for women) .....	5
	<hr/>		<hr/>
	47-48		53-54

## JUNIOR AND SENIOR REQUIREMENTS

Education 304 .....	5
Education 320 .....	5
Education 304 .....	5



Education 335.7, 336.7 .....	10
Education 346.7, 347.7, 348.7(b) .....	15
Business Administration 370 .....	5
Business Administration 560 .....	5
Business Administration 562 .....	5
Business Administration 563 .....	5
Business Administration 565 .....	5
Economics 312 .....	5
Economics 360 .....	5
Economics 386 .....	5
Economics 585 .....	5
Approved electives (c) .....	15
	<hr/>
	95

(a) Five hours from Chem. 111 or 121, Ggy. 104, 121, or 122, GLY 125, PCS 101 or 127.

(b) Prerequisite: A minimum of 500 hours of paid work experience in a distributive retail, wholesale, or service establishment, on a full or part-time basis. Approval of such work experience must be obtained from the faculty adviser for the Distributive Education program.

(c) Fifteen hours from BE 307, 311; BA 351, 564, or 568; ECN 326, 330, 380, 465, 466; or JRL 575.

### LIBRARY EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER

Library Education courses, described elsewhere in this catalogue, are open to elementary as well as secondary school teachers. By taking 20 quarter hours in library education, the student may satisfy the requirements for certification as teacher-librarian. With approval of the faculty adviser, these courses may be included among electives in the junior and senior years.

### HEALTH AND PHYSICAL EDUCATION

MR. SMITH, *Chairman*

#### FRESHMAN AND SOPHOMORE YEARS

Hours	Hours
Zoology 101-102 .....	English 121 or 122 .....
10	5
English 101-102 .....	Speech 108 .....
10	5
Electives in General	Chemistry 111 and 112 (c) .....
Education (a) .....	10
5-15	History 111-112 .....
Education 103 .....	10
3	Education 103 .....
Physical Education 118, 119 & ...	3
6	Electives in
Physical Education 180, 181,	General Education (a) .....
182 (b) .....	5
9	Physical Education 280, 281,
Physical Education 1x (men) ...	282 .....
0	9
Physical Education 1 (women) ...	Physical Education 2x (men) ...
5	0
Military Science 1 or	Physical Education 2 (women) ...
Air Science 5 (men) .....	5
6	Military Science 2 or
	Air Science 6 (men) .....
	6
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49	52-53

### JUNIOR AND SENIOR REQUIREMENTS

#### CONCENTRATION AREAS

Although a student will receive some training in each one of the fields, Health Education, Physical Education, and Recreation Education, 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. A student will be certified in his major concentration with

the exception of the Recreation Area. The State Department does not issue certification in the area of recreation. If he desires certification in another area he must satisfy the requirements in that area.

## I. PHYSICAL EDUCATION

	Hours
Zoology 312 and 313 .....	10
Education 304, 335.3, 336.3 .....	15
Education 346.3, 347.3, 348.3 .....	15
Physical Education 380, 381, 382 .....	9
Physical Education 307, 311, 360, 361, 372, 383, 384 .....	29
Electives .....	20
	98

## II. HEALTH EDUCATION

	Hours
Education 304, 335.3, 336.3 .....	15
Education 346.3, 347.3, 348.3 .....	15
Phy. Educ. 307, 360, 361, 371, 372, 383 .....	28
Zoology 312, 313 .....	10
Bacteriology 350 .....	5
Family Development 390 or 393 .....	5
Education 455 .....	5
Electives in Related Areas .....	10
Elective .....	5
	98

## III. RECREATION EDUCATION

	Hours
Music, Industrial Arts, Arts, Drama and Crafts .....	15
Sociology 427-435 .....	5
Education 304, 335.3, 336.3 .....	15
Education 346.3, 347.3, 348.3 .....	15
Physical Education 307, 311, 372, 384, 385, 386, 387 .....	25
Recommended Electives:	
Physical Education 383 (men and women)	
Physical Education 380, 381, 382 (men)	
Physical Education 315, 380, 381, 382 (women)	
Education 420, 455	
Sociology 481, 489	
Psychology 423, 490 .....	23
	98

(a) Select three courses during the freshman and sophomore years from the following: Political Science 101, History 100, Economics 105-106, Sociology 105, Psychology 101, Philosophy 104, Anthropology 102, Geography 101, or a substitute approved by the major professor.

(b) Majors in this field are expected to obtain a uniform to be used in activity classes. These should be obtained from the University Book Stores.

(c) Concentration Area in Recreation Education 10 hours from the following: Chemistry, Ag. Chemistry, Physical Science, Botany, Anthropology, Geography, or Geology.

## HOME ECONOMICS

MISS CROSS, *Chairman*

## FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
Art 120 .....	5	English 121-122 .....	10
English 101-102 .....	10	Chemistry 261 .....	5
Psychology 101 .....	5	Economics 105 .....	5
Speech 108 .....	5	Social Science Elective .....	5
Home Economics 120 .....	5	Home Economics 115 .....	5
Zoology 101 .....	5	Home Economics 175 .....	5
Chemistry 111 or 121 .....	5	Home Economics 224 .....	5
Physical Education 1 .....	5	Home Economics 293 .....	5
Education 103 .....	5	Physical Education 2 .....	5
	50		50

## JUNIOR AND SENIOR REQUIREMENTS

	Hours
Bacteriology 350 .....	5
Home Economics 306, 321, 364 .....	15
Home Economics 368, 369, 390, 490 .....	16
Education 455, 335, 336 .....	15
Education 346, 347, 348 .....	15
Home Economics 343, 351, 357, 376, or 377 .....	16
Electives .....	8
Social Science Elective .....	5
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	95

Prerequisites for Education 335.2-336.2 are as follows: Home Economics 224, 293, 306, 343, 390 or 490; an over-all average grade of C or above, evidence of fitness for teaching.

Students who have not taken Home Economics courses within six years prior to the date of registration for completion of requirements for a degree in this major, or for professional certification, must take at least twenty hours of course work in Home Economics.

## INDUSTRIAL ARTS

MR. HARRISON, *Chairman*

## FRESHMAN AND SOPHOMORE YEARS

Hours		Hours	
English 101-102 .....	10	English 121-122 .....	10
Political Science 101 .....	5	History 111-112 .....	10
Education 103 .....	2	Education 103 .....	3
Industrial Arts 120, 122 .....	10	Industrial Arts 150 .....	5
Economics 105 .....	5	Speech 108 .....	5
Physical Science .....	10	Mathematics 100 and Industrial Arts 326 .....	10
Psychology 101 .....	5	Elective .....	5
Military Science 1 or Air Science 5 .....	6	Military Science 2 or Air Science 6 .....	6
Physical Education 1 (for men) .....	0	Physical Education 2 (for men) .....	0
or Physical Education 1 (for women) .....	5	Physical Education 2 (for women) .....	5
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	52-53		53-54

## JUNIOR AND SENIOR REQUIREMENTS

	Hours
Education 304, 335.6, 336.6 .....	15
Education 346.6, 347.6, 348.6 .....	15
Industrial Arts 323 .....	5
Industrial Arts 324 .....	5
Industrial Arts 325 .....	5
Industrial Arts 327 .....	5
Industrial Arts 330 .....	5
Industrial Arts 332 .....	5
Industrial Arts 340 .....	5
Industrial Arts 550 .....	5
Electives .....	20
	—
	90

## TEACHERS OF GRADES 7, 8, AND 9

MR. SCOTT, *Chairman*

The program for teachers in grades 7, 8, and 9 includes specialization in one or two of the following fields: English, mathematics, science, and social studies. The program qualifies a student for a professional four-year teachers certificate in grades 7, 8, and 9.

## FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	English 121-122 .....	10
Speech 108 .....	5	History 111, and 112 .....	10
Political Science 101 .....	5	Physical Science 101 or	
Zoology 101-102 .....	10	PCS 127 (b), Geology 125 .....	10
Mathematics 100 (a) .....	5	Economics 105 .....	5
Geography 101 .....	5	Fine Arts 300 or	
Education 103 .....	5	IA 332 or Art 305 .....	5
Military Science 1 or		Psychology 101 .....	5
Air Science 5 .....	6	Military Science 2 or	
Physical Education		Air Science 6 .....	6
(for men) .....	0	Physical Education	
Physical Education		(for men) .....	0
(for women) .....	5	Physical Education	
		(for women) .....	5
	—		—
	50-51		50-51

## JUNIOR AND SENIOR REQUIREMENTS

	Hours
Philosophy 358 or Math 101 or Math 200 .....	5
Teaching Field (see Recommended Courses in Teaching Fields) .....	30-40
Second Teaching Field (see Recommended Courses in	
Teaching Fields) .....	0-30
Approved Electives (c) .....	0-20
Education 304, 335.11, 336.11 .....	15
Education 346.11, 347.11, 348.11 .....	15
	—
	95

(a) Students exempting Mathematics may select some other course, subject to the approval of the student's advisor.

(b) Prospective science teachers should take PCS 127.

(c) These courses must be approved by the student's advisor, should usually include courses in either or both teaching fields, and should be carefully selected to strengthen the student's program. A course in Health Education (Physical Education 344 or 371) is desirable.

**RECOMMENDED COURSES IN TEACHING FIELDS  
FOR TEACHERS OF GRADES 7, 8, AND 9**

The student may select either one or two of the following teaching fields. If only one teaching field is selected, the student must take 40 quarter hours in this field; if two are selected, 30 quarter hours must be taken in each. Ordinarily, teaching field courses should be selected from those listed below; however, the student's advisor may approve substitutions.

ENGLISH (30-40 quarter hours)

English 304, English Literature after 1800  
 English 310, Advanced Grammar and Syntax  
 English 360, Advanced Composition  
 English 361, The Short Story  
 English 410, History of the English Language

English 422, American Literature after 1865  
 English 440, Shakespeare: Part I or English 441, Shakespeare: Part II  
 Speech 310, Survey of Speech Problems  
 Recommended electives:  
 Classical Culture 310, English Derivatives from Greek and Latin  
 Education 331, Introduction to Children's Literature  
 Education 401, The Teaching of Reading  
 Education 502, Book Selection and Purchase

MATHEMATICS (30-40 quarter hours)

Mathematics 101, Trigonometry  
 Mathematics 200, Applied Statistics or Mathematics 357, Elementary  
 Mathematical Statistics  
 Mathematics 210, Analytic Geometry  
 Mathematics 235, Finite Mathematics  
 Mathematics 254, Calculus  
 Mathematics 255, Calculus  
 Mathematics 510, Fundamental Ideas of Algebra  
 Mathematics 510, College Geometry

SCIENCE (30-40 quarter hours)

Astronomy 391, Descriptive Astronomy  
 Botany 121-122, Elementary Botany  
 Chemistry 121-122, General Chemistry  
 Geology 125, Elements of Geology (Physical)  
 Physics 127, General Physics-Mechanics  
 Physics 229, General Physics-Electricity, Magnetism, and Modern Physics  
 Zoology 225, Invertebrate Zoology  
 Zoology 226, Vertebrate Zoology

SOCIAL SCIENCES (30-40 quarter hours)

Economics 106, Problems of Economics  
 Economics 312, Elementary Economic Statistics, or Geography 358,  
 Economic Geography  
 Geography 350, Cartography and Graphics  
 History 351-352, American History  
 History 459, History of Georgia  
 Political Science 202, American Government  
 Political Science 406, State Government

TEACHING MENTALLY RETARDED CHILDREN

MR. AINSWORTH, *Chairman.*

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	English 121-122 .....	10
Geography 101 .....	5	History 111-112 .....	10
Mathematics 100 .....	5	Physical Sciences .....	5
Education 103 .....	5	Social Science 104, or Economics	
Biological Sciences .....	10	105, or Philosophy 101	
Speech 108 .....	5	or Sociology 105, or	
Political Science 101 .....	5	Anthropology 102 .....	10
Military Science 1 or		Psychology 101 .....	5
Air Science 5 .....	6	Industrial Arts 332 .....	5
Physical Education 1 (men) .....	0	Art 305 .....	5
Physical Education 1 (women) ..	5	Military Science 2 or	
		Air Science 6 .....	6
		Physical Education 2 (men) .....	0
		Physical Education 2 (women) ..	6

## JUNIOR AND SENIOR REQUIREMENTS

	Hours
Education 304, 401, 512, 518, 519 .....	25
Education 528 .....	5
Education 335.4 and 336.4 .....	10
Education 346, 347, and 348 .....	15
Education 452, 456, or Psychology 490 .....	5
Psychology 258, 423, 459, or Sociology 427 .....	5
Speech 310 .....	5
Music 302 .....	5
Mathematics 502 .....	5
Physical Education 344 .....	3
Elective .....	5
	88

TEACHERS OF MODERN FOREIGN LANGUAGES IN ELEMENTARY  
AND SECONDARY SCHOOLSMISS TINGLE, *Chairman*

## FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	English 121-122 .....	10
Social Science (a) .....	15	Social Science (a) .....	5
Science (b) .....	10	Science (b) .....	10
Mathematics (c) .....	5	Mathematics (c) .....	5
Education 103 .....	3	Foreign Language (d) .....	5
Foreign Language (d) .....	15	Teaching Field Course .....	5
Military Science 1 or Air Science 5 .....	6	Education 103 .....	2
Physical Education 1 (for men) .....	0	Education 201 .....	3
or Physical Education 1 (for women) .....	5	Military Science 2 or Air Science 6 .....	6
	63-64	Physical Education 2 (for men) .....	0
		Physical Education 2 (for women) .....	5
			50-51

## JUNIOR AND SENIOR YEARS

	Hours		Hours
Teaching Field Courses .....	25	Teaching Field Courses .....	10
Education 304 .....	5	Education 335.5-336.5 .....	10
Related Courses (e) .....	10	Education 346-7-8.5 .....	15
Approved electives .....	7	Approved electives .....	10
	47		45

(a) History 111-112, Economics 105, Political Science 101, Anthropology 102, Geography 101, Sociology 105. A total of 20 hours is required.

(b) Zoology 101-102, Botany 121-122, Physical Science 101, Physics 127-128, Chemistry 111-112 or 121-122, Geography 121-122, Geography 104, Geology 125-126. It is recommended that two courses in zoology and two courses in a physical science with a lab be taken. A total of 20 hours is required.

(c) Mathematics, 100, 200, or 502. A total of 10 hours is required.

(d) French or Spanish 101, 102, 103, 104 (or 5 hour sub.) If the student does not need to take the elementary language courses, he may choose other required courses.

(e) Art 305, Music 302, Fine Arts 300.

## TEACHING MOTOR HANDICAPPED CHILDREN

MR. AINSWORTH, *Chairman*

## FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102	10	English 121-122	10
Geography 101	5	History 111-112	10
Biological Sciences (a)	10	Social Science (b)	10
Mathematics 100	5	Physical Science (a)	5
Education 103	5	Psychology 101	5
Speech 108	5	Industrial Arts 332	5
Political Science 101	5	Art 305	5
Military Science 1 or Air Science 5	6	Military Science 2 or Air Science 6	6
Physical Education 1 (for men)	0	Physical Education 2 (for men)	0
Physical Education 1 (for women)	5	Physical Education 2 (for women)	5
	<hr/> 50-51		<hr/> 55-56

## JUNIOR AND SENIOR REQUIREMENTS

	Hours
Education 304, 401, 512, 525, 526	25
Education 335.4 and 336.4	10
Education 346, 347, and 348	15
Education 456	5
Education 528	5
Education 452 or Psychology 490	5
Mathematics 502	5
Speech 310	5
Music 302	5
Psychology 258, 423, 459, or Sociology 427	5
Physical Education 344	5
Elective	5
	<hr/> 95

(a) Selections in science must include 10 hours in a laboratory science. Mathematics 100 must precede physical science.

(b) Social Science 104, Economics 105, Philosophy 101, Sociology 105, or Anthropology 102.

## MUSIC EDUCATION

This program now leads to the Bachelor of Music degree in the Franklin College of Arts and Sciences (See page 155).

## GENERAL SECONDARY TEACHERS

MR. SINGLETON, *Chairman*

The programs in general secondary education are designed for prospective teachers of English, foreign language, mathematics, science, or social studies in grades seven through twelve. Requirements and prerequisites in the teaching field should be considered in choosing courses in the freshman and sophomore years. Each prospective teacher should select a teaching field and plan his program with his advisor in the College of Education. Completion of a program qualifies a student for a professional four-year teachers certificate in a field.

## FRESHMAN AND SOPHOMORE YEARS

Hours		Hours	
English 101-102 _____	10	English 121-122 _____	10
Speech 108 _____	5	History 111-112 _____	10
Political Science 101 _____	5	Physical Science (b) _____	10
Zoology 101-102 or Botany 121-122 _____	10	Art 305, Fine Arts 300, or Industrial Arts 332 _____	5
Mathematics 100 _____	5	Psychology 101 _____	5
Education 103 _____	5	Mathematics 101, 200, or Philosophy 358 _____	5
Social Science (a) _____	5	Military Science 2 or Air Science 6 _____	6
Military Science 1 or Air Science 5 _____	6	Physical Education 2 (for men) _____	0
Physical Education 1 (for men) _____	0	Physical Education 2 (for women) _____	5
Physical Education 1 (for women) _____	5		
—————		—————	
50-51		50-51	

## JUNIOR AND SENIOR YEARS

Hours		Hours	
Education 304 _____	5	Education 335.5 _____	5
Teaching Field Courses _____	25	Education 336.5 _____	5
Teaching field or Approved Related Courses _____	15	Education 346-7-8.5 _____	15
		Teaching Field Courses _____	15
		Approved Electives or Teaching Field Courses _____	10
—————		—————	
45		50	

(a) One course should be selected from the following: Anthropology 102, Economics 105, Geography 101, Sociology 105.

(b) Two courses should be selected from the following: Chemistry 111-112 or 121-122, Geography 121-122, Geography 104, Geology 125-126, Physical Science 101 (Physics 120) Physics 127-128. Science majors must elect Chem, 121-122 rather than 111-112, since Chem. 121-122 is required as part of the teaching field.

### RECOMMENDED COURSES IN TEACHING FIELDS FOR HIGH SCHOOL TEACHERS

The program in the teaching field consists of a minimum of 40 hours concentrated in one broad field with 15-25 hours in the teaching field or related areas. The courses in the teaching field and related areas must be planned with the student's adviser. Course selections should be made from the following lists, with those courses marked by an asterisk (\*) being required or strongly recommended for teachers in this field.

#### ENGLISH TEACHERS

A minimum of forty hours must be taken from the teaching field courses listed. Related courses and electives must be in the following areas. English, speech, foreign language, journalism, or classical culture.

A student planning to teach high school English must complete twenty hours or the equivalent in foreign language, taken in high school and college.

#### ENGLISH:

- \*English 303, English Literature to 1800
- English 304, English Literature after 1800
- English 305, Lyric Poetry



- \*English 310, Advanced Grammar
- English 360, Advanced Composition
- English 361, Short Story
- \*English 410, History of the English Language
- \*One course from the following:
  - English 414, Early Eighteenth Century Literature
  - English 415, Late Eighteenth Century Literature
  - English 416, Early Romantic Movement
  - English 417, Late Romantic Movement
  - English 442, Early Victorian Literature
  - English 452, Late Victorian Literature
- \*English 420, American Literature to 1865
- English 422, American Literature after 1865
- \*English 440 or 441, Shakespeare
- Speech 310, Survey of Speech Problems
- Speech 486, Oral Interpretation of Prose and Poetry
- Speech 487, Oral Interpretation of Dramatic Literature

### TEACHERS OF FOREIGN LANGUAGES (a)

A minimum of forty hours must be taken in one language from the teaching field courses listed. Related courses and electives should be taken in the following areas: foreign language, English, classical culture, and history.

#### FRENCH:

- \*French 103 and 104, Intermediate French
- \*French 106, Intermediate French Conversation and Composition
- \*French 201 and 202, Introduction to the Study of French Literature
  - French 433, French Drama of the Twentieth Century
  - French 434, French Novel of the Twentieth Century
- \*French 556, Advanced French Syntax and Composition
- French 557, French Phonetics
- French 581, Problems of Teaching Romance Languages

#### SPANISH:

- \*Spanish 103 and 104, Intermediate Spanish
- \*Spanish 106, Intermediate Spanish Conversation and Composition
- \*Spanish 201 and 202, Introduction to Spanish Literature
- Spanish 306, Spanish Commercial Correspondence and Advanced Composition
  - Spanish 419, Spanish Novel of the Twentieth Century
  - Spanish 420, Modern Spanish Novel
  - Spanish 421, The Drama of the Golden Age
  - Spanish 422, Spanish Prose of the Golden Age
  - Spanish 425, Modern Drama
- \*Spanish 526, Advanced Spanish Syntax and Composition
- Spanish 581, Problems of Teaching Romance Languages

#### LATIN:

- \*Latin 201 and 202, Elementary Latin
- \*Latin 203, Intermediate Latin
- \*Latin 304, Readings in Latin
- \*Latin 305, Livy
- \*Latin 306, Horace
  - Latin 500, Honors Course in Latin
  - Classical Culture 302, Rome

(a) A special program is available for prospective teacher of French or Spanish at both Elementary and Secondary levels.

### MATHEMATICS TEACHERS

Each prospective teacher should take the forty-five quarter hours indicated. Mathematics 210, 254, and 255 should be completed by the end of the sophomore year.

- \*Mathematics 210, Analytic Geometry
- \*Mathematics 254, 255, Calculus
- \*Mathematics 357, Mathematical Statistics
- \*Mathematics 440, Introduction to Higher Algebra
- \*Mathematics 441, Introduction to Higher Algebra
- \*Mathematics 442, Introduction to Higher Algebra
- Mathematics 451, Mathematical Statistics
- \*Mathematics 457, Calculus
- Mathematics 458, Advanced Calculus
- \*Mathematics 512, College Geometry
- Mathematics 514, Elementary Set Theory

### SCIENCE TEACHERS

In the four-year science program a minimum of 75 quarter hours are required. Botany 121-122 should be chosen rather than Zoology 101-102 during the freshman year and Mathematics 101 in the sophomore year. Sophomore science courses should be selected from the fields of chemistry, physics, and geology. Mathematics 254 and 255 are prerequisite to enrollment in 300-level physics courses.

#### ASTRONOMY:

- Astronomy 391, Descriptive Astronomy

#### BACTERIOLOGY:

- Bacteriology 350, Introductory Microbiology

#### BOTANY:

- \*Botany 121 and 122, Elementary Botany
- Botany 305, Identification of Flowering Plants
- Botany 306, Identification of Trees and Shrubs
- Botany 323, Elementary Plant Anatomy
- Botany 375, Plant Ecology
- Botany 380, Plant Physiology

#### CHEMISTRY:

- \*Chemistry 121 and 122, General Chemistry
- Chemistry 223, Qualitative Inorganic Analysis
- \*Chemistry 340, Organic Chemistry (First Course)
- Chemistry 341 and 342, Organic Chemistry
- Chemistry 380, Quantitative Analysis
- Chemistry 390, Elements of Physical Chemistry
- Chemistry 420, 421, and 424, Advanced Inorganic Chemistry

#### ENTOMOLOGY:

- Entomology 373, General Entomology
- Entomology 374, Economic Entomology

#### GEOGRAPHY:

- Geography 122, Introductory Weather and Climate
- Geography 310, Conservation of Natural Resources
- Geography 401, Advanced Climatology

#### GEOLOGY:

- \*Geology 125, Elements of Geology (Physical)
- Geology 126, Elements of Geology (Historical)
- Geology 322, Introduction to Mineralogy and Crystallography
- Geology 323, Petrology

## PHYSICS:

- \*Physics 127, General Physics—Mechanics
- \*Physics 128, General Physics—Heat, Sound, and Light
- \*Physics 229, General Physics—Electricity and Modern Physics
- Physics 332, Experimental Electricity and Magnetism
- Physics 333, Light
- Physics 334, Advanced Heat
- Physics 372, Nuclear Radiation
- Physics 380, Electronics

## ZOOLOGY:

- \*Zoology 225, Invertebrate Zoology
- \*\*Zoology 226, Vertebrate Zoology
- Zoology 350, Natural History of Vertebrates
- Zoology 353, Animal Ecology
- Zoology 355, Embryology
- Zoology 356, Comparative Anatomy of Vertebrates
- Zoology 370, Genetics
- Zoology 381, Ornithology
- Zoology 390, General Physiology

## SOCIAL STUDIES TEACHERS

The teaching field courses, related courses, and electives should be selected from the following social sciences: economics, geography, history, political science, sociology, and anthropology. The student must take a minimum of seventy-five quarter hours in the social sciences with at least thirty-five quarter hours in one of the above social sciences.

## ECONOMICS:

- \*Economics 105, Principles of Economics
- Economics 106, Problems of Economics
- Economics 312, Elementary Economic Statistics
- Economics 326, Money and Banking
- Economics 400, Primitive Economic Systems
- Economics 406, Advanced Economic Theory
- Economics 437, Comparative Economic Systems
- Economics 444, Government and Business
- Economics 455, Contemporary Economic Problems

## GEOGRAPHY:

- \*Geography 101, World Human Geography
- Geography 341, Problems in Political Geography
- Geography 350, Cartography and Graphics
- Geography 358, Economic Geography
- Geography 436, Geography of the South
- Geography 441, Caribbean America
- Geography 442, South America
- Geography 444, Europe and the Mediterranean
- Geography 448, Geography of Southeast Asia
- Geography 459, North American Urban Geography
- Geography 460, North American Industrial Geography
- Geography 461, North American Agricultural Geography

## HISTORY:

- \*History 111-112, Western Civilization
- History 341-342, English History
- \*History 351-352, American History
- History 358, Survey of American Diplomacy
- History 371-372, Eastern Europe and the Near East
- History 381-382, Far Eastern Civilization

- History 391-392, Latin American Civilization  
 History 406-407, Social and Intellectual History of the U. S.  
 History 430, World War I and the Russian Revolution  
 History 431, World War II and the Rise of Soviet Russia  
 History 456, Recent American History, 1877-1917  
 History 459, History of Georgia  
 History 496, Recent American History, 1918 to Present

## POLITICAL SCIENCE:

- \*Political Science 101, American Government  
 Political Science 202, American Government  
 Political Science 406, State Government  
 Political Science 407, Comparative European Governments  
 Political Science 409, American Political Thought since 1800  
 Political Science 410, American Political Parties  
 Political Science 412, Government of the Soviet Union  
 Political Science 420, International Relations  
 Political Science 481, Political Institutions  
 Political Science 483, American Constitutional Law  
 Political Science 486, Modern Political Philosophies

## SOCIOLOGY AND ANTHROPOLOGY:

- Anthropology 102, Man and His Culture  
 Anthropology 310, Introductory Ethnology  
 Anthropology 400, Early Economic Systems  
 \*Sociology 105, Introductory Sociology (\* or Ant. 102)  
 Sociology 360, Contemporary Social Problems  
 Sociology 409, Social Change  
 Sociology 422, Development of Sociological Theory  
 Sociology 427, Personality and Social Adjustment  
 Sociology 431, Principles of Rural-Urban Sociology  
 Sociology 433, Population Theory and Problems  
 Sociology 435, Community Organization

## SCHOOL LIBRARIAN

MRS. BROADHURST, *Chairman*

A twenty-hour Library Education minor consists of the four courses listed below. It is designed to meet the needs of (1) students anticipating graduate study in Library Science and (2) students wishing to qualify for positions as school librarian, teacher-librarian, or public librarian. All four courses are offered at least once during a school term and in alternate summers.

	Hours
Library Education 303, Utilization of Library Materials .....	5
Library Education 304, Organization of Library Materials .....	5
Library Education 305, Administration of a Small Library .....	5
Library Education 502, Book Selection and Purchase .....	5

## SPEECH CORRECTION

MR. AINSWORTH, *Chairman*

## FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101-102 .....	10	History 111-112 .....	10
Speech 103 .....	5	English 121-122 .....	10
Political Science 101 .....	5	Social Science 104, or Economics	
Zoology 101-102 .....	10	105, or Philosophy 104,	
Mathematics 100 .....	5	or Sociology 105, or	
Education 103 .....	5	Anthropology 102 .....	10

Physical Science (a) .....	5	Psychology 101 .....	5
Military Science 1 or		Speech 250 .....	5
Air Science 5 .....	6	Psychology 322 .....	5
Physical Education 1 (for men) ..	0	Military Science 2 or	
or		Air Science 6 .....	6
Physical Education 1		Physical Education 2 (for men) ..	0
(for women) .....	5	or	
		Physical Education 2	
		(for women) .....	5
	—		—
	50-51		50-51

JUNIOR AND SENIOR REQUIREMENTS

	Hours
Education 304 .....	5
Education 335.4 and 336.4 .....	10
Education 346.16, 347.16, 348.16 .....	15
Speech 209, 310, 412, 470, 471 .....	25
Education 456 or 521 .....	5
Speech or Education 474, 476 .....	10
Education 538 .....	5
Psychology 258, 423, 459 or Sociology 427 .....	5
Psychology 490 or Education 452 .....	5
Electives .....	10
	—
	95

(a) 5 hours from PCS 101, Chem 111 or 121, GGY 104, or PCS 120.

TRADE AND INDUSTRIAL EDUCATION

This program leads to professional certification as coordinators of Diversified Cooperative Training and teachers of trade and industrial subjects.

Before a graduate is recommended for a professional certificate in this field, the applicant must furnish evidence of work experience in amount and kind which will satisfy provisions of the Georgia State Plan for Vocational Education.

FRESHMAN AND SOPHOMORE YEARS

	Hours		Hours
English 101, 102, .....	10	English 121-122 .....	10
Agricultural Engineering 104-		Psychology 101 .....	5
105 .....	4	Economics 105-106 .....	10
Chemistry 111-112 or 121-122 ..	10	History 111-112 .....	10
Political Science 101 .....	5	Speech 108 .....	5
Education 103 .....	5	Social Science 104 .....	5
Mathematics 100 .....	5	Electives .....	5
Physics 120 .....	5	Military Science 2 or	
Elective .....	2	Air Science 6 .....	6
Military Science 1 or		Physical Education 2 .....	0
Air Science 5 .....	6		
Physical Education 1 .....	0		
	—		—
	52		56

JUNIOR AND SENIOR REQUIREMENTS

Education 304, 335.18, 336.18 .....	15
Education 346.18, 347.18, 348.18 .....	15
Education 349 .....	3
Business Administration 351 .....	5
Business Administration 352 .....	5
Business Administration 583 .....	5
Economics 312 .....	5

Economics 385	5
Industrial Arts 326	5
Industrial Arts 340	5
Electives	24
	—
	89

## COURSES OF INSTRUCTION

(Baldwin 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.

For a description of course numbers, as they apply to graduates and undergraduates, see page 82.

Courses are arranged alphabetically within the following major groups: Education (EDU); Business Education (BE); Industrial Arts (IA); Library Education (LIB); and Health and Physical Education (PED).

The basic undergraduate courses are grouped together at the beginning of the Education section.

### BASIC UNDERGRADUATE COURSES

103. AN INTRODUCTION TO PROFESSIONAL DEVELOPMENT. *Mr. Holt, Mr. Mills, Miss Rooks, and Miss Swain.* (For first-quarter freshmen through second-quarter sophomores. One hour a week for six quarters).

Each student appraises his aptitudes and abilities, studies and chooses professional goals, and makes plans for their attainment. The study of teaching as a profession and the development and present status of the public schools.

201. HUMAN DEVELOPMENT AND THE EDUCATIVE PROCESS. 3 hours. *The Staff.*

Mental, physical, emotional, and social growth of the elementary school child in relation to learning. Directed observation.

303. AN INTRODUCTION TO PROFESSIONAL DEVELOPMENT. (No credit allowed if student has credit for Education 103 or equivalent. For third quarter sophomores through third quarter juniors. Two hours a week for three quarters). *Mr. Holt, Mr. Mills, Miss Rooks, and Miss Swain.*

Each student appraises his aptitudes and abilities, studies and chooses professional goals, and makes plans for their attainment. The study of teaching as a profession and the development and present status of the public schools.

304. EDUCATIONAL PSYCHOLOGY. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison, Mr. Kingston, and Mr. Schab.*

Application of psychology to problems of child growth and development, learning, motivation, measurements, personality adjustment and mental hygiene, and individual differences.

331. INTRODUCTION TO CHILDREN'S LITERATURE. 3 hours. *Miss Cooper and Mrs. Dekle.*

Literature suitable for elementary school children; stimulation of children's reading.

335. CURRICULUM PLANNING. Prerequisites: Education 103 (303) and Education 304 or equivalent. *The Staff.*

Determining curriculum content and planning instructional programs based on pupil needs. Directed observation in selected schools.

336. TEACHING PROCEDURES. Prerequisite: Education 335, but may be scheduled concurrently with 335. *The Staff.*

Study and evaluation of teaching materials and techniques by teaching field. Directed observation and planning for student teaching.

346, 347, 348. STUDENT TEACHING. 15 hours. Prerequisites: Education 335 and 336 and minimum grade of C in required education courses and teaching field. (See "Student Teaching," page 330). Cooperating Laboratory Schools. *The Staff.*

Prospective teachers are placed in selected schools for an entire quarter, during which they are supervised in actual teaching in their chosen teaching field.

349. SEMINAR IN EDUCATION. 3 hours. Prerequisite: Education 346, 347, 348. *The Staff.*

Problems emerging from experiences in student teaching; planning school programs; place and responsibility of teacher in the school.

401. THE TEACHING OF READING. See page 354.

455. PSYCHOLOGY OF ADOLESCENCE. See page 353.

HOME ECONOMICS 304. NUTRITION EDUCATION FOR TEACHERS. 3 hours. Prerequisite: Senior College standing. *Miss Beall and Miss Boyd.*

Diet habits of Georgia school children and relation of nutrition to health.

### ADMINISTRATION EDUCATION

727. PERSONNEL ADMINISTRATION. Prerequisite: Four courses in education, including Education 790 or 794. *Mr. Gentry, Mr. Hall, Mr. Smith, and Mr. Sprowles.*

Principles and policies governing employer-employee relationships in the public schools.

790. BASIC THEORIES OF EDUCATIONAL ADMINISTRATION. Prerequisites: Four courses in education. *Mr. Gentry, Mr. Hall, Mr. Smith, and Mr. Sprowles.*

Modern theory in school administration.

791. EDUCATIONAL ADMINISTRATION. Prerequisites: Four courses in education. *Mr. Gentry, Mr. Hall, Mr. Smith, and Mr. Sprowles.*

Intensive study of selected problems, issues, and practices in educational administration.

794. ADMINISTRATION OF ELEMENTARY AND SECONDARY SCHOOLS. Prerequisites: Four courses in education. *Mr. Gentry, Mr. Hall, Mr. Smith, and Mr. Sprowles.*

Duties of the school principal in the organization and administration of the school.

795. ADMINISTRATION OF STATE AND LOCAL SCHOOL SYSTEMS. Prerequisites: Four courses in education, including Education 790 or equivalent. *Mr. Gentry, Mr. Hall, Mr. Smith, and Mr. Sprowles.*

Fundamentals of state and local public school organization and administration; relation of state and local systems to federal agencies.

797. THE SCHOOL PLANT. Prerequisites: Four courses in education. *Mr. Gentry, Mr. Hall, Mr. Smith, and Mr. Sprowles.*

Cooperative planning in developing a school plant program; execution of school plant plans; operation and maintenance of the school plant.

798. SCHOOL FINANCE. Prerequisites: Four courses in education. *Mr. Gentry, Mr. Hall, Mr. Smith, and Mr. Sprowles.*

Problems and issues involved in financing the public schools.

899. SCHOOL LAW. Prerequisites: Four courses in education, including one course in Educational Administration. *Mr. Gentry, Mr. Hall, Mr. Smith, and Mr. Sprowles.*

Legal principles applicable to public education; nature and structure of the public school system, teacher personnel, and student personnel.

### ART EDUCATION

(See page 333)

### AUDIO-VISUAL EDUCATION

564. SURVEY OF AUDIO-VISUAL COMMUNICATIONS. *Mr. Oliver.*

A review of literature in audio-visual communications. Characteristics and effects of educational and commercial motion pictures, radio, television, and graphics emphasizing their social and educational implications.

565. UTILIZATION OF AUDIO-VISUAL MATERIALS. *Mr. Oliver and Miss Skelton.*

Criteria of selection and principles of utilization of audio-visual instructional media. Laboratory experiences to develop familiarity with materials and the ability to use various types of audio-visual equipment in teaching.

566. ADMINISTRATION OF AUDIO-VISUAL SERVICES. *Mr. Oliver.*

Problems of organizing and administering audio-visual materials and equipment services. Emphasis on selection and evaluation, school plant requirements, costs, developing the program, and appraising adequacy and effectiveness.

568. PRODUCTION OF AUDIO-VISUAL MATERIALS. *Mr. Oliver and Miss Skelton.*

Preparation of instructional materials largely in the photographic, sound and graphic areas. Laboratory experiences in developing and producing materials within specific interests of the class.

## CURRICULUM AND METHODS

405. FUNDAMENTALS OF THE CURRICULUM. Prerequisites: Four courses in education. *Miss Burnham, Miss Cox, Mr. Dickerson, Mr. Newsome, and Mr. Sprowles.*

An introductory course in the fundamentals of curriculum planning.

501. CURRICULUM TRENDS. Prerequisite: Student teaching or equivalent. *The Staff.*

Trends in curriculum design and content and factors which influence curriculum innovations.

506. CURRICULUM PLANNING. Prerequisites: Four courses in education. *The Staff.*

Problems of the curriculum of elementary and secondary schools.

517. PROBLEMS OF TEACHING. Prerequisites: Four courses in education. *The Staff.*

Instructional procedures and evaluation of teaching in terms of pupil growth.

581. PROBLEMS OF TEACHING ROMANCE LANGUAGES. See page 205.

804. CURRICULUM FOUNDATIONS. Prerequisites: Four courses in education. (Not open to students who have had Education 405). *The Staff.*

Deals with the foundations of the curriculum as found in the fields of psychology, anthropology, economics, political science, and philosophy.

## DISTRIBUTIVE EDUCATION

320. ORGANIZATION AND ADMINISTRATION OF DISTRIBUTIVE EDUCATION. *Mr. Calhoun.*

The Distributive Education program at the Federal, State, and local level; duties of the teacher-coordinator; operation of the adult Distributive Education program; visits to programs in operation.

## EXCEPTIONAL CHILDREN

512. INTRODUCTION TO EXCEPTIONAL CHILDREN. Prerequisites: Four courses in Education including Education 304. *Mrs. Blake and Miss Scott.*

Nature, cause, and treatment of children's disabilities and their influence on emotional, social, educational, and vocational adjustment. Special services required for exceptional children to develop to the maximum capacities.

518. NATURE OF MENTAL RETARDATION. Prerequisites: Education 304, 512, plus three additional courses in Education. *Mrs. Blake and Miss Scott.*

Description of types, nature, and causes of mental retardation and implications for adjustment and education. Problems of parental adjustment, diagnosis, treatment and educational modifications.

519. MATERIALS AND METHODS OF TEACHING SKILL SUBJECTS TO THE MENTALLY RETARDED. Prerequisites: Four courses in Education plus Education 512 and 518. *Miss Scott.*

The study, selection and preparation of suitable curricular materials; methods used in teaching the skills which mentally retarded children need.

525. NATURE AND TREATMENT OF MOTOR HANDICAPS. Prerequisites: Four courses in Education plus Education 512. *Mrs. Blake.*

Nature and causes of motor handicaps with emphasis on cerebral palsy. Contributions of various therapies, equipment, and services of physical therapy, occupational therapy, speech correction, and play therapy.

526. EDUCATION OF CHILDREN WITH MOTOR HANDICAPS. Prerequisites: Four courses in Education plus Education 512 and 525. *Mrs. Blake and Miss Scott.*

The study, selection, and preparation of suitable materials and modifications of methodology to meet the needs of motor handicapped children.

787. PROBLEMS OF THE MULTIPLE HANDICAPPED. Prerequisites: Education 712, 725, 718, Psychology 615, 616, 618. *Mrs. Blake and Miss Scott.*

Planning and implementing programs for the total education, care, and treatment of mentally retarded and physically limited individuals.

837. ANALYSIS OF RESEARCH IN MENTAL RETARDATION. Prerequisites: Education 712, 718, Psychology 615, 616, 618. *Mrs. Blake and Miss Scott.*

Study and evaluation of research in mental retardation. Applications to educational, psychological, and vocational rehabilitation procedures.

## GUIDANCE AND COUNSELING

420. FUNDAMENTALS OF A GUIDANCE PROGRAM. *The Staff.*

An introduction to professional training for counselors and an opportunity for teachers to acquire an over-view of guidance functions in the school program.

521. INDIVIDUAL APPRAISAL. *The Staff.*

Techniques for discovering characteristics of individuals. Students will develop competencies in recording, analyzing, correlating, and interpreting data as they relate to counseling.



523. **COUNSELING.** Prerequisites: Four courses in education and one course in guidance. *The Staff.*  
Theories and applications of various approaches to counseling. Practice in use of the interview in counseling.

524. **EDUCATIONAL AND OCCUPATIONAL INFORMATION.** Prerequisite: Four courses in education and consent of instructor. *The Staff.*

Nature, sources, and functions of information about educational and occupational opportunities in assisting individuals to formulate comprehensive plans. Examination and evaluation of techniques for discovering, collecting, filing, interpreting, and using this information for counseling. Study of Theories of Vocational Choice.

920. **STUDENT PERSONNEL SERVICES.** Prerequisite: Four graduate courses in education, psychology, sociology, or consent of the instructor. *Mr. Findley, Mr. Holt.*

Analysis of the interrelated functions of all types of specialized student and personnel workers, with particular reference to their role in the total educational program, principles governing the scope of such services in adapting them to educational institutions of various sizes and levels.

923. **PRINCIPLES OF GROUP GUIDANCE.** Prerequisite: Education 620, 723, 721, or consent of instructor. *Mr. Gazda, Mr. Oelke.*

A study of the history, philosophy, and principles of group guidance and counseling and their applications. Emphasis given to historical development and pertinent research.

## INTERNSHIPS AND PRACTICUM

746. **INTERNSHIP.** 5 to 15 hours. Prerequisite: Consent of instructor. *Major Professor.*

A study-work program: class or conference study of problems encountered by the intern with remainder of time in application of principles to regular job.

750. **PRACTICUM IN STUDENT PERSONNEL SERVICES.** 5 to 15 hours. Prerequisite: Consent of instructor. *Major Professor.*

Supervised practice in appropriate aspects of personnel services in approved institutional setting. Close supervision will be maintained by a member of the University faculty. Available to counselors, reading specialists, school psychologists, and visiting teachers.

## MUSIC EDUCATION

(see page 207)

## PHILOSOPHY OF EDUCATION

800. **BASIC ISSUES IN EDUCATION.** Prerequisite: Four courses in education. *Mr. Newsome.*

An interdisciplinary study of basic issues in modern American education.

803. **PHILOSOPHY OF EDUCATION.** Prerequisites: Four courses in education and consent of the instructor. *Mr. Newsome and Mr. Sprowles.*

A critical examination of philosophical questions concerning education.

807. **AMERICAN HIGHER EDUCATION.** Prerequisite: Four courses in education. *Mr. Newsome.*

Theories and principles of American higher education and the various types of institutions of higher education.

808. **HISTORY OF EDUCATION.** Prerequisite: Four courses in education. *Mr. Newsome.*

Persistent and recurring problems of education in Western Culture.

## PSYCHOLOGY OF EDUCATION

412. **PROBLEMS IN EDUCATIONAL PSYCHOLOGY.** Prerequisite: Education 304. *Mr. Aaron, Mr. Bledsoe, Mr. Garrison, and Mr. Greene.*

Specialized training in selected areas of educational psychology, e. g., individual differences, motivation, evaluation procedures, etc.

452. **PSYCHOLOGY OF CHILDHOOD.** Prerequisite: Education 304 or equivalent. *Mr. Bledsoe, Mr. Garrison, Mr. Kingston, and Mrs. Sutton.*

Interests, needs, and abilities of elementary pupils; evaluation of their total development.

455. **PSYCHOLOGY OF ADOLESCENCE.** Prerequisite: Education 304 or equivalent. *Mr. Bledsoe, Mr. Garrison, Mr. Kingston, and Mr. Schab.*

Interests, needs, and abilities of adolescents; evaluation of their total development.

636. **FUNDAMENTALS OF CHILD STUDY.** *Mr. Shufelt.*

Techniques of child study: anecdotal record, home visitation, simple projective techniques, interviews, creative production.

684. **ADVANCED CHILD STUDY.** Prerequisite: Four courses in education including Education 635. *Mr. Garrison and Mr. Shufelt.*

Interpretation of a case record using an organizing framework of six processes. physiological, affectional, peer group, socialization, self-developmental, self-adjustive.

802. **ADVANCED EDUCATIONAL PSYCHOLOGY.** *Mr. Aaron, Mr. Bledsoe, Mr. Findley, Mr. Garrison, and Mr. Kingston.*

Applications of the scientific findings of psychology to the more complex problems of the educative process.

814. **PSYCHOLOGY OF CLASSROOM LEARNING.** Prerequisite: Education 304 and three additional courses in the area of psychology. *Mr. Garrison and Mr. Kingston.*

Analytical study of learning activities in the classroom, with reference to the learning of school subjects. The focus is on the learning process. Theories and principles of learning are related to classroom situations.

852. **THEORIES OF CHILD DEVELOPMENT.** *Mr. Garrison.*

A survey of recent literature in the field of child development with special emphasis on early childhood experiences at home and at school, peer relationships, socio-cultural influences and determinants of self-concepts.

857. **EDUCATIONAL \*DIAGNOSIS AND TREATMENT.** *Mr. Kingston.*

The clinical use of test materials in the diagnosis of school children with special difficulties in school work. Methods of treating learning difficulties.

## READING

401. **THE TEACHING OF READING.** *Mr. Aaron, Mr. Callaway, Miss Cooper, Mrs. Dolvin, Mrs. Simpson, Mrs. Sutton, and Mr. Wooton.*

A systematic coverage of the teaching of reading, including methods, techniques, and materials, from first through twelfth grades.

402. **THE ANALYSIS AND CORRECTION OF READING DISABILITIES.** *Mr. Aaron, Mr. Callaway.*

Causes of reading disability; methods of diagnosis; procedures and materials for corrective work, group and individual.

404. **GUIDING THE READING OF CHILDREN.** *Mrs. Dolvin and Mrs. Sutton.*

Literature and methods of reading guidance for children.

503. **TRENDS AND PRACTICES IN THE TEACHING OF READING.** *Mr. Aaron, Mr. Callaway, Mrs. Dolvin.* Prerequisite: Education 401 or equivalent.

An analysis of trends and practices in the teaching of reading. An advanced course involving intensive critical review of literature in selected areas.

## RESEARCH AND MEASUREMENT IN EDUCATION

418. **STATISTICAL METHODS IN EDUCATION.** *Mr. Aaron, Mr. Bledsoe, Mr. Findley, Mr. Garrison, and Mr. Scott.*

Descriptive statistics used in education with a brief introduction to probability and inference.

421. **SPECIAL PROBLEMS IN EDUCATION.** 5 to 10 hours. *The Staff.* (For Selected Students.)

Specialized training appropriate to the needs of the individual. The student's project may involve intensive library investigation in a special field or the collection and analysis of original data pertinent to a given problem.

456. **EDUCATIONAL TESTS AND MEASUREMENTS.** Prerequisites: Four courses in education. *Mr. Aaron, Mr. Bledsoe, Mr. Findley, and Mr. Kingston.*

Nature and function of measurement in education. Teacher-made and standardized tests and scales. Introductory statistical concepts of measurement.

615. **PROBLEMS IN THE EVALUATION OF INSTRUCTION.** *Mr. Bledsoe, Mr. Findley, and Mr. Greene.*

Interpretation of the results secured from evaluative techniques.

801. **SEMINAR IN EDUCATION.** Prerequisite: Education 826 or 816 and six courses in Education and Psychology. *Mr. Greene and The Staff.*

A seminar for advanced students in Education dealing with proposed student research projects and critiques of the literature.

812. **ADVANCED STATISTICS IN EDUCATION AND PSYCHOLOGY.** Prerequisite: Education 418 (618) or equivalent. *Mr. Aaron, Mr. Bledsoe, Mr. Findley, and Mr. Scott.*

Statistics of inference, sampling techniques, analysis of variance and co-variance, introduction to principles of experimental design.

816. METHODS OF FORMAL RESEARCH IN EDUCATION. *Mr. Bledsoe, Mr. Findley, Mr. Greene, and Mr. Scott.*

Research competencies involved in the planning, conducting and reporting of masters theses and doctoral dissertations. Required of all candidates for the degree of Master of Arts (Education) and must be completed before the student is permitted to register for Education 930.\*

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. Findley, Mr. Greene, Mr. Perrodin, and Mrs. Sutton.*

The application of principles and practices of evaluation to the total school program.

826. METHODS OF APPLIED RESEARCH IN EDUCATION. *Mr. Bledsoe, Mr. Findley, Mr. Greene and Mr. Scott.*

Research skills and related competencies involved in the planning, conducting and reporting of applied research studies of the type required for the degree of Master of Education. Must be completed before the student is permitted to register for Education 921.\*

856. ADVANCED EDUCATIONAL MEASUREMENT. Prerequisite: Education 656 or Psychology 615, and Education 618 or Psychology 658. *Mr. Findley.*  
Advanced treatment of concepts of reliability, validity, error of measurements, score variance, test analysis.

916, 917, 918. EDUCATIONAL RESEARCH. 5-15 hours. Prerequisites: Four courses in education and graduate standing. *Authorized members of College of Education Staff.*

Individual investigation in the field of a student's specialization.

921. LABORATORY IN APPLIED EDUCATION. Prerequisites: Four courses in education. *The Staff.*

Functional study of a topic or problem in education significantly related to the student's professional task.

925. SCHOOL TESTING PROGRAMS. Prerequisite: Education 656 or Psychology 615. *Mr. Findley and Mr. Kingston.*

Analytical study of school testing programs, with reference to development of a purpose, philosophy, and plan of testing that will relate testing to the total programs of instruction, guidance, and administrative evaluation in schools and school systems.

926. CRITIQUE OF EDUCATIONAL LITERATURES. Prerequisite: Education 816 or 826. *Staff.*

Critical interpretation and evaluation of research and theoretical writing in the field of education. Each student will make critical reviews of significant educational literature in the area of his specialization.

930. THESIS IN EDUCATION. 5 to 50 hours. *The Graduate Staff.*

956. CONSTRUCTION OF EDUCATIONAL TESTS. Prerequisite: Education 656 or Psychology 615, and Education 618 or Psychology 658. *Mr. Findley.*

Construction of educational tests, including criterion selection and development, test specifications, item construction, item analysis, test validation, cross-validation, and standardization

## SPEECH CORRECTION

Additional required and elective courses for students majoring in speech correction may be found under the Department of Speech and Drama and the Department of Psychology.

474. (SPEECH): VOICE AND ARTICULATORY DISORDERS OF SPEECH. Prerequisites: Speech 470. *Mr. Ainsworth, Mr. Luper and Mr. Lambries.*

Etiology, rationale and methods of therapy for functional and organic disorders of voice and articulation. Development of a therapeutic program and lesson plans. Supervised clinical practice with individuals and groups.

476. (SPEECH): STUTTERING: ETHOLOGY AND THERAPY. Prerequisite: Speech 470. *Mr. Luper.*

Major theories of causation of stuttering, whether based on neurophysiological, emotional, or learning factors. The development of an integrated therapy based on modern research. Supervised clinical practice in individual and group therapy.

534. CLASSROOM PROBLEMS IN SPEECH CORRECTION. (Atlanta Area Teacher Education Service only). Prerequisite: Four courses in Education. *Mr. McCroskey.*

Problems of defective speech, common etiologies, identification of speech defects, and the role of the teacher in referral, examination and correction. Clinical demonstrations in cooperation with the Atlanta Speech School.

\*If the training of the student requires, Education 826 and 816 may be interchanged, upon recommendation of the major professor and approval of the Dean.

535. (SPEECH) DIRECTED INDIVIDUAL STUDY IN SPEECH CORRECTION. Prerequisite: Four courses in Speech Correction. *Mr. Luper.*

Adaptation of the speech correction curriculum to the individual needs of mature students. A detailed outline of requirements must be prepared in conference by the student and instructor and approved by the Chairman of Speech Correction.

536. (SPEECH) DIRECTED INDIVIDUAL STUDY IN SPEECH CORRECTION. Prerequisite: Four courses in Speech Correction. *Mr. Luper.*

Continuation of Education 535, but content must be different.

537. (SPEECH) SEMINAR IN SPEECH PATHOLOGY. Prerequisite: Six courses in speech correction or four courses and consent of the instructor. *Mr. Ainsworth.*

Intensive exploration of the research and theory in one or more areas of speech pathology. Specific content adapted to the needs of the students. Group projects in addition to readings and lectures.

538. PROGRAM ADMINISTRATION AND CLINICAL PRACTICE IN SPEECH CORRECTION. Prerequisite: Speech 470 and one content-clinical practice course in speech correction. *Mr. Ainsworth.*

Methods for finding, selecting and scheduling speech cases in the public schools. The organizational and administrative problems in keeping records, reporting, and coordinating speech correction activities. Supervised clinical practice.

539. ADVANCED CLINICAL PRACTICE IN SPEECH CORRECTION. Prerequisite: Six courses in speech correction and 200 clock hours of supervised clinic practice. *Mr. Luper and Mr. Ainsworth.*

Work with complex and difficult problems of speech combined with intensive readings, conferences, and discussions.

835. (SPEECH) ORGANIC DISORDERS OF SPEECH. Prerequisite: Six courses in speech correction. *Mr. Ainsworth.*

Pathologies affecting speech, the speech tests and therapy for cases of cleft palate, cerebral palsy, aphasia, laryngectomy and retarded speech. Role of the speech pathologists in the medical-psychological-education-speech therapist team.

## SUPERVISION

730. SUPERVISION OF INSTRUCTION. Prerequisites: Four courses in education and consent of the instructor. *Miss Burnham, Miss Cox, Mr. Dickerson, Mr. Perrodin, Mr. Singleton, Mr. Smith, Mr. Sprowles, and Mrs. Sutton.*

A comprehensive study of the basic concepts of supervision and ways and means of improving instruction through supervision.

732. SEMINAR IN SUPERVISION. Prerequisites: Three courses in supervision and consent of instructor. *Miss Burnham and Miss Cox.*

Identification and investigation of problems of supervision and research; experimentation in the use of supervisory procedures.

733. SEMINAR IN GROUP DEVELOPMENT. Prerequisite: One course in supervision, administration, or counseling and consent of instructor. *Miss Burnham and Miss Cox.*

Group process and problems of group work, improving behavioral skills in group leadership and membership roles, and improving group planning and execution of educational programs.

830. INVESTIGATION IN SUPERVISION. Prerequisites: Four courses in education and consent of instructor. *Miss Burnham, Miss Cox, Mr. Dickerson, Mr. Perrodin, Mr. Singleton, Mr. Smith, and Mrs. Sutton.*

An interdisciplinary study of forces impinging upon education and the implications of these findings for supervision and curriculum development.

## TRADE AND INDUSTRIAL EDUCATION

541. PRINCIPLES AND PRACTICES IN TEACHING INDUSTRIAL SUBJECTS. *The Staff.*

Principles and practices of teaching manipulative skills and related technology; organization of subject matter, lesson planning and student appraisal.

542. SCHOOL SHOP EQUIPMENT AND MANAGEMENT. *The Staff.*

Principles involved in the physical planning of school shops and laboratories; selection of tools and equipment.

543. CURRICULUM PLANNING FOR TRADE AND INDUSTRIAL SUBJECTS. *The Staff.*

Principles and procedures in the development of curricula for trade and technical courses.

544. COORDINATION OF DIVERSIFIED COOPERATIVE TRAINING. *The Staff.*

Major responsibilities and activities of the Diversified Cooperative Training Coordinator.

## VOCATIONAL EDUCATION

671. ADULT EDUCATION. Prerequisite: Four courses in education and consent of the instructor. *Miss Beall, Miss Boyd, Miss Cross, Mr. O'Kelley, and Mr. Tolbert.*

The primary purposes 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.

763. PROBLEMS IN VOCATIONAL EDUCATION. Prerequisite: Four courses in education and consent of the instructor. *Miss Beall, Miss Boyd, Miss Cross, Mr. O'Kelley, and Mr. Tolbert.*

For experienced teachers and school administrators who want additional training in specific problems of teaching. 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 Boyd, Miss Cross, Mr. O'Kelley, and Mr. Tolbert.*

For teachers who desire guidance in improving teaching procedures. Consideration is given to the development of curricula based on the needs and interests of students.

772. EVALUATION IN VOCATIONAL EDUCATION. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Cross, Mr. O'Kelly, and Mr. Tolbert.*

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.

773. SUPERVISION OF VOCATIONAL TEACHING. Prerequisites: Four courses in education and consent of the instructor. *Miss Beall, Miss Boyd, Miss Cross, Mr. O'Kelley, and Mr. Tolbert.*

Primary purposes are: (1) to develop a philosophy of teacher education, (2) to discover problems in vocational teacher education in Georgia, (3) to determine relative emphasis that each teacher training agency should place upon solution of the several problems, and (4) to project plans for an apprentice training program.

## WORKSHOPS

W560-W760. EDUCATIONAL PLANNING AND DEVELOPMENT. *The Staff.*

Educational planning for the development of the local school or system. Registrants sectioned according to the area of specialization. (See also "Off-Campus Workshops.")

A maximum of four workshops (20 hours) may be taken by any one registrant.

## SPECIAL COURSES CROSS LISTED WITH OTHER DEPARTMENTS

566. (JOURNALISM). JOURNALISM IN THE SECONDARY SCHOOL. *The Staff.*  
See Journalism 566.

581. (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. *The Staff.*

See Modern Foreign Languages 581.

## BUSINESS EDUCATION (BE)

B.E. 107. PERSONAL TYPING. No academic credit. (Five periods a week).  
*The Staff.*

An introductory course in typewriting for personal use.

B.E. 108. BUSINESS COMMUNICATIONS. Prerequisites: English 101-102.  
*The Staff.*

Principles and practice in the writing of business letters and reports; collecting, organizing, and interpreting data.

B.E. 300. SHORTHAND. 3 hours. Prerequisite: BE 303 or scheduled concurrently. *Mr. Crawford.*

Gregg Shorthand: theory, development of skill in reading and writing, dictation, and transcription.

B.E. 301. SHORTHAND. 3 hours. Prerequisite: BE 300. *Mr. Crawford.*  
Continuation of BE 300.

B.E. 302. SHORTHAND. 3 hours. Prerequisite: BE 301. *Mr. Crawford.*  
Continuation of BE 301.

B.E. 303. TYPEWRITING. 2 hours. *The Staff.* Introductory typewriting.

B.E. 304. TYPEWRITING. 2 hours. Prerequisite: BE 303. *The Staff.*  
Intermediate typewriting.

B.E. 305. TYPEWRITING. 2 hours. Prerequisite: BE 304. *The Staff.*  
Advanced Typewriting.

B.E. 306. TRANSCRIPTION. 3 hours. Prerequisites: BE 302 and 305. *Mr. Crawford.*

Advanced dictation and transcription.

B.E. 307. OFFICE MANAGEMENT. *The Staff.*

Scientific office management: principles, equipment, supervision, office records and reports, methods and procedures, filing, selection and training of office personnel.

B.E. 310. SECRETARIAL OFFICE PRACTICE. Prerequisites: BE 302 and 305. *The Staff.*

Secretarial traits and duties; filing; operation of dictating, duplicating, and other office machines.

B.E. 311. OFFICE MACHINES. Prerequisites: BE 300 or Consent of Instructor. *The Staff.*

Practicum in the use of office machines: desk calculators, adding machines, duplicating machines, electric typewriters, dictating and transcribing machines.

B.E. 501. THEORY AND PRINCIPLES IN SHORTHAND, TYPEWRITING, AND TRANSCRIPTION FOR TEACHERS. 3 hours. Prerequisites: BE 302, 305, Edu. 336.7 or equivalent. *Mr. Calhoun.*

Teaching theory, psychological principles of skill building, and evaluation.

B.E. 502. PRINCIPLES AND PROBLEMS OF BASIC BUSINESS SUBJECTS FOR TEACHERS. 2 hours. Prerequisites: Edu. 336.7. *Mr. Calhoun.*

Development of units, selection and organization of material, student motivation, and evaluation in the basic high school business subjects.

B.E. 503. ADVANCED OFFICE PRACTICE AND MACHINES FOR TEACHERS. 3 hours. Prerequisites: BE 302, 305, 310, 311. *Mr. Crawford.*

Unit development, laboratory practice, and evaluation in the high school teaching of office practice and machine use.

B.E. 504. PRINCIPLES AND PROBLEMS OF BOOKKEEPING FOR TEACHERS. 2 hours. Prerequisites: BA 111 and Edu. 336.7. *Mr. Calhoun.*

Materials, teaching procedures, standards, and evaluation in the teaching of the book-keeping cycle.

B.E. 901. TESTS AND MEASUREMENTS IN BUSINESS EDUCATION. 2 quarter hours. Prerequisite: Four graduate courses in business education. *Mr. Calhoun.*

Theory, construction, and use of standardized and teacher-made tests in business education subjects.

B.E. 902. ADMINISTRATION AND SUPERVISION OF BUSINESS EDUCATION. 3 hours. Prerequisites: Four graduate courses in business education. *Mr. Calhoun.*

The planning and establishment of business education programs at the federal, state, and local levels; personnel selection, textbook evaluation, placement and follow-up of cooperative training, in-service education, and public relations.

## INDUSTRIAL ARTS (IA)

I.A. 120. GENERAL SHOP. One single and four double periods. *Mr. Nix and Mr. Parr.*

General survey of a wide variety of materials, tools, and procedures.

I.A. 122. BEGINNING WOODWORK. One single and four double periods. *Mr. Parr.*

Planning, construction, and finishing of industrial arts woodworking projects.

I.A. 150. INDUSTRIAL ARTS DRAFTING. One single and four double periods. *Mr. Harrison and Mr. Nix.*

Reading and writing a graphic language; developing working drawings which have application to industrial arts projects.

I.A. 315. BLUE PRINT READING AND PROCESSING. One single and four double periods. *Mr. Harrison and Mr. Nix.*

Solution of blue print reading problems of various industries; construction and development of drawings, tracings, and prints.

I.A. 316. POWER MECHANICS. *Mr. Nix.*

A study of the production and utilization of power in modern industry and transportation. Consideration will be given to pneumatic, hydraulic, electronic, diesel and jet systems.

I.A. 323. INDUSTRIAL ARTS DESIGN. One single and four double periods. *Mr. Harrison.*

Application of industrial art design to student projects.

I.A. 324. METAL WORK. One single and four double periods. *Mr. Nix.*

Planning, construction, and finishing of projects in metal; development of skill in the use of hand tools.

I.A. 325. **ADVANCED WOODWORK.** One single and four double periods. *Mr. Harrison and Mr. Parr.*

A continuation of beginning woodwork with more emphasis on power machinery.

I.A. 326. **MATERIALS AND MATHEMATICS OF INDUSTRY.** *Mr. Nix.*  
Common industrial materials and their production; size and cost estimate; application of mathematics to industrial arts work.

I.A. 327. **BASIC ELECTRICAL TECHNOLOGY.** One single and four double periods. *Mr. Parr.*

Introductory electricity and electronics; application of principles to projects.

I.A. 328. **ADVANCED GENERAL SHOP.** One single and four double periods. *Mr. Harrison and Mr. Parr.*

A continuation of Industrial Arts 120 in which the student works on advanced projects and gains experience in carrying on a general shop program.

I.A. 320. **ADVANCED DRAFTING.** One single and four double periods. *Mr. Harrison.*

A continuation of beginning drafting. Advanced problems in drafting and machine design are studied.

I.A. 332. **INDUSTRIAL ARTS AND HANDICRAFT FOR TEACHERS.** One single and four double periods. *Staff.*

The place and type of industrial arts suitable for adults, camp counselors, teachers, homemakers, and others interested in creative activities.

I.A. 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, layouts, isometrics, and perspective.

I.A. 510. **PRINCIPLES OF INDUSTRIAL ARTS EDUCATION.** *Mr. Harrison.*

History, principles, function, organization, and evaluation.

I.A. 524. **ADVANCED METAL TECHNOLOGY.** Prerequisites: IA 324. *Mr. Nix.*  
Individual experimentation in metal design and processing related to the machine shop; problems and processes of the metal industries.

I.A. 527. **ADVANCED ELECTRONICS TECHNOLOGY.** Prerequisite: IA 327. *Mr. Parr.*

Theory of audio-communication, amplification, and electro mechanics and their industrial applications.

I.A. 550. **ORGANIZATION OF SUBJECT MATTER IN INDUSTRIAL ARTS.** *Mr. Harrison.*

Selection, organization, presentation, and interpretation of subject matter in industrial arts. Students will work out job plans, instruction sheets, and plan course content.

I.A. 560. **ADMINISTRATION OF INDUSTRIAL ARTS.** *Mr. Harrison.*

Interpretation of industrial arts curricula in terms of school and community needs. Organization and reorganization of shop programs. Cost accounting of materials, equipment, supplies, and housing.

I.A. 570. **SPECIAL PROBLEMS IN INDUSTRIAL ARTS.** *Mr. Harrison.*

Improvement of curriculum and teaching procedures through intensive training in a particular area of interest.

I.A. 580. **SEMINAR IN INDUSTRIAL ARTS AND HANDICRAFTS.** *Mr. Harrison.*

Advanced study in industrial arts and handicrafts. Research and experimentation in selected areas of the industrial arts.

### LIBRARY EDUCATION (LIB)

L.E. 303. **UTILIZATION OF LIBRARY MATERIALS.** Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

A study of reference books for school and community use and use of the library as an information laboratory.

L.E. 304. **ORGANIZATION OF LIBRARY MATERIALS.** Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

Instruction and practice in the organization of library materials based on the Dewey Decimal Classification.

L.E. 305. **ADMINISTRATION OF A SMALL LIBRARY.** Prerequisites: Senior-college standing and consent of instructor. *Mrs. Broadhurst.*

Housing, equipment, staff, public relations, and other aspects of library management.

L.E. 502. **BOOK SELECTION AND PURCHASE.** Prerequisites: Education 335-336 and two additional approved courses in Education. *Mrs. Broadhurst.*

A study of selection aids, book reviewing, reading lists, book publishers and publishing, standards useful in balancing a collection, and methods of reading guidance.

L.E. 503. **THE LIBRARY IN INSTRUCTION.** *Staff.*

A critical examination of the improvement of instruction by correlating library use with elementary and secondary school curricula; material selection for the enrichment of teaching at all grade levels.

**L.E. 504. READING GUIDANCE. Staff.**

The use of multiple titles related to a given theme; research concerning the reading habits of young people; and the social and psychological effects of mass media.

**L.E. 505. THE LIBRARY IN THE MODERN SCHOOL. Prerequisites: LE 305. Staff.**

A study of standards for evaluating school library resources and services for administrators, supervisors, and librarians.

**L.E. 506. LITERATURE FOR YOUNG PEOPLE. Staff.**

A critical examination of literature suitable for students in junior and senior high grades; reading motivation of the reluctant and non-reader.

**HEALTH AND PHYSICAL EDUCATION (PED)****PHYSICAL EDUCATION****1-2 PHYSICAL EDUCATION. 10 hours.**

Women. Three hours a week for six quarters. Physical Education Building, South 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 adapted physical education, archery, badminton, basketball, bowling, camping, fencing, fundamentals of movement, golf, hockey, life saving, recreational sports, rhythmic activities, soccer, softball, swimming, water safety instructors course, tennis, tumbling, volleyball.

Men. Two hours a week for six quarters. Stegeman Hall. *Physical Education Staff.*

Minimum physical fitness standards must be met during the freshman year as determined by physical fitness test. A swimming test will be administered at the start of the fall quarter. Activities include touch football, soccer, basketball, volleyball, tumbling, trampoline, weight training, tennis, badminton, handball, golf, track and field, bowling, archery, gymnastics, aquatics, wrestling, and special classes for those students with disabilities who are in need of a limited program.

**1x-2x. PHYSICAL EDUCATION (Majors, men). Three hours a week for six quarters. (Laboratory period to be arranged). Stegeman Hall. *Physical Education Staff.***

These courses parallel Physical Education 1-2. Designed for Physical Education and Recreation Majors as introductory courses to Physical Education 180, 181, 182 and Physical Education 280, 281, 282.

**180, 181, 182. (M). SKILL TECHNIQUES FOR MEN. 3 hours. (3 hours a quarter. Four periods a week required). Stegeman Hall. *Mr. Gabrielsen and Mr. Harvill.***

Demonstrations and practice, including methods and techniques, in teaching such activities as apparatus, tumbling, stunts and pyramids, swimming and diving, life saving, water shows, golf and tennis.

**280, 281, 282 (M). SKILL TECHNIQUES FOR MEN. 9 hours (3 hours each quarter. Four periods a week required). Stegeman Hall. *Mr. Bowen and Mr. Harvill.***

Demonstration and practice in teaching methods and techniques in such activities as archery, badminton; gymnastics, wrestling, and mass calisthenics.

**280, 281, 282 (W). PHYSICAL EDUCATION ACTIVITIES. 9 hours (3 hours a quarter). (Laboratory period to be arranged). Prerequisite: One quarter in activity engaged in or permission of instructor. South Campus. *Miss Alvarez, Miss Russell, and Miss Soares.***

a. Teaching, coaching and officiating methods in soccer, speedball and field hockey.

b. Rhythmic analysis of physical education activities.

c. Teaching and coaching methods in tennis and archery. Advanced techniques and officiating methods. Organization of tournaments.

**307. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. Prerequisite: Education 304. South Campus. *Miss Lewis and Miss Russell.***

Designed to help the teacher understand the place of Physical Education in The Elementary School Program and its contribution to the developing child. Experience is given in planning, teaching and evaluating physical educational activities.

**309. CARE AND PREVENTION OF ATHLETIC INJURIES. 3 hours. *Mr. Bowers, Mr. Harvill, and Mr. Richwine.***

Analysis of common injuries, conditioning and safety practices, and taping and bandaging.

**311. FUNDAMENTAL MOTOR SKILLS. 3 hours. South Campus. *Miss Soares.***  
Methods and techniques in movement skills. Opportunities are provided for experiences conducting these physical education activities. Knowledge of resource materials.

**315. AQUATIC. 3 hours. Prerequisite: Intermediate swimming or the consent of the instructor. South Campus. *Miss Joiner.***

Prepares students for the American Red Cross Instructor's Water Safety Course, for conducting swimming meets, and for presenting water shows. Recommended to students who are interested in camping activities.



357. INTERMEDIATE COMPOSITION. 3 hours. South Campus. *Miss Alvarez*. Study of fundamentals of composition and production. Individual and group problems.

360. KINESIOLOGY. Prerequisite: Zoology 312. South Campus. *Miss Keaster*.

Analysis and application of the physical and physiological principles involved in human motion. Physical laws governing the manipulation of objects in sports.

361. THERAPEUTICS OF EXERCISE. Prerequisite: Physical Education 360. South Campus. *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. Stegeman Hall. *Mr. Gabrielsen* and *Miss Lewis*.

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. (Same as Education 336.3). North and South Campus. *Mr. Gabrielsen* and *Miss Lewis*.

Deals with the organization and administration of physical education and recreation programs in the school. Planning the curriculum in physical education as a part of the total school program.

380, 381, 382 (W). TEAM SPORTS FOR WOMEN. 9 hours (3 hours a quarter). (Laboratory period to be arranged). Prerequisite: One quarter of each sport or consent of the instructor. South Campus. *Miss Russell* and *Miss Soares*.

Teaching, coaching, and officiating methods in volley-ball, basketball, and softball. Actual experience in teaching in class and officiating in intramural games. The Women's National Official Rating Examination will be given in volley-ball and basketball.

380, 381, 382 (M) THEORY, COACHING METHODS AND OFFICIATING OF MAJOR SPORTS. 9 hours, (3 hours each quarter). (Laboratory period to be arranged). Prerequisite: Senior division standing. Stegeman Hall. *Coaching Staff*.

Theory and coaching techniques of major sports including football, basketball, baseball, and track. 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 planning of University Intramural Sports program, as well as officiating in the various sports, will be included.

383. EVALUATION AND MEASUREMENTS. 3 hours Stegeman Hall. *Mr. Bowen*.

Methods in evaluating and testing physical education activities; procedures to be used in evaluating these tests and their results, including statistical analysis.

513. ADMINISTRATION OF PHYSICAL EDUCATION IN THE SCHOOL PROGRAM. Prerequisite: Four courses in Education. *Mr. Bowen*, *Mr. Gabrielsen* and *Miss Lewis*.

Curriculum planning; budgeting; selection, care, and maintenance of equipment and facilities; personnel and other administrative problems; and evaluation of physical education in the school program.

714. CURRENT PROBLEMS IN HEALTH, PHYSICAL EDUCATION AND RECREATION. Stegeman Hall. Prerequisite: Four courses in Education. *Mr. Bowen*, *Mr. Gabrielsen*, *Miss Keaster*, and *Miss Lewis*.

Problems met in a comprehensive program of health, physical education, or in recreation in the school and community. Special emphasis given to problems in areas of student's special interests.

715. RESEARCH METHODS IN HEALTH, PHYSICAL EDUCATION AND RECREATION. Stegeman Hall. Prerequisite: Four courses in Education. *Mr. Bowen*, *Mr. Gabrielsen*, *Miss Lewis*, and *Mr. Smith*.

The application of research methods to physical education with experience in developing techniques of gathering, analyzing, and reporting data.

901. FOUNDATIONS IN HEALTH AND PHYSICAL EDUCATION. Prerequisites: PED 372, 713, or 711 and equivalent. *Miss Keaster* and *Miss Lewis*.

A systematic review of the foundations of physical education: biological, sociological, and psychological.

916. ADMINISTRATION IN INTRAMURAL AND INTERSCHOLASTIC ATHLETICS. Stegeman Hall. Prerequisite: Undergraduate major in Physical Education. *Mr. Bowen* and *Mr. Smith*.

Budgeting; scheduling; equipment and facilities; personnel and community relations; and other administrative problems are investigated using the case method.

## HEALTH EDUCATION

119. FIRST AID AND TREATMENT OF ATHLETIC INJURIES. 3 hours. Stegeman Hall. *Mr. Bowers* and *Mr. Harvill*.

Problems and practical applications in first aid and the common injuries received in athletic competition. Students who qualify receive American Red Cross instructors certificate.

344. PROBLEMS IN SCHOOL HEALTH EDUCATION. 3 hours. One double laboratory period. South Campus. *Miss Keaster*.

Principles, materials, and methods of school health education. Teacher's role in securing a healthful environment, health appraisal, guidance, and instruction.

370. SCHOOL HEALTH EDUCATION. South Campus. (Same as Education 335.3). *Mr. Bowers*.

Techniques in recognizing health needs and interests of people in relation to their environment. Pupil experiences and materials to meet these needs. Integrating classroom health activities with health resources in the community.

371. PERSONAL AND COMMUNITY HEALTH PROBLEMS. South Campus. *Mr. Bowen* and *Mr. Bowers*.

Current information in the areas of personal health, communicable diseases control, etc., as these apply to healthful living for individuals and groups.

511. ADMINISTRATION OF HEALTH EDUCATION IN SCHOOL AND COMMUNITY. Prerequisite: Four courses in education. South campus. *Mr. Bowers* and *Miss Keaster*.

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.

571. SAFETY EDUCATION. Stegeman Hall. *Mr. Clemence*.

Problems, policies, principles, and methods involved in safety and accident prevention programs; programs of traffic safety and teaching driver education in high schools.

## RECREATION

118. SOCIAL RECREATION. 3 hours Stegeman Hall. *Mr. Lawson*.

Methods and materials in social recreation. Experience will be given in group planning and conducting social activities. Some laboratory experiences will be required.

384. INTERPRETATION OF RECREATION. 3 hours. Stegeman Hall. *Mr. Gabrielsen*.

Designed to familiarize the students with the recreation profession and the philosophy of recreation. A survey is made of the entire field of recreation. A study of national organizations is included.

385. PROBLEMS IN RECREATION. 3 hours. Stegeman Hall or South Campus. *The Staff*.

Consideration of needs and problems in recreation in rural areas, industry, hospitals, and armed forces.

386. CAMP LEADERSHIP. 3 hours. Stegeman Hall and South Campus. *Mr. Clemence*, *Mr. Lawson* and *Miss Soares*.

Designed to give prospective camp counselors an understanding of the total camp program, duties and responsibilities of camp counselors. Techniques of camp leadership will be considered.

387. COMMUNITY RECREATION. 3 hours. Stegeman Hall. *Mr. Gabrielsen*. Problems arising in organization, promotion and administration of community recreation programs. Observation of programs. The problems of coordinating the efforts of the schools, private agencies, and commercial recreation are studied.

512. PROBLEMS IN SCHOOL AND COMMUNITY RECREATION. Prerequisites: Four courses in education. Stegeman Hall or South Campus. *Mr. Gabrielsen* and *Miss Russell*.

Problems of school and community recreation pertaining to philosophy, program, facilities and leadership. This course will consider the school camp program.

# THE COLLEGE OF BUSINESS ADMINISTRATION

J. WHITNEY BUNTING, B.S., A.M., M.B.A., Ph.D., *Dean*  
ROBERT TAYLOR SEGREST, B.S.C., M.S.C., *Associate Dean*

## 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 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, economics, finance, general business, industrial relations, insurance, management, marketing, and real estate.

The curriculum of the College, however, is by no means restricted to purely economic 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 is equipped with the various types of machines common in business: adding machines, bookkeeping machines, calculators, 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 punched card accounting machinery are included, such as sorters, punches, and tabulators.

Operational for the first time in 1963-64 is a new Statistics Laboratory equipped with the most modern computational equipment for both instructional and research purposes.

## 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 recommen-

dation of the Department Chairman 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 cities 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 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 chapter 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 eighty-three chapters now active. The purpose of this fraternity is to encourage and reward scholarship and achievement. Every year about ten per cent 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 two leading professional organizations for students of schools of business, the Alpha Kappa Psi, and the Delta Sigma Pi Fraternities. Delta Sigma Pi awards annually a key to the most distinguished Business Administration graduate of the year, and Alpha Kappa Psi awards a gold key each year to the member of the senior class of the College of Business Administration who has the highest scholastic average for four years of college work, at least two years of which have been taken 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.

In the Spring Quarter of 1963 the presidents of the major undergraduate professional societies of the College of Business Administration formed the Board of Business Organizations. It is the function of the new group to promote all-college speakers and to create greater understanding and co-operation between students, faculty, and administration.

Students are encouraged to affiliate with numerous professional clubs in specific business fields of interest.

### BUREAU OF BUSINESS RESEARCH

Director: William B. Keeling

The research and service programs of the College of Business Administration are centered in the Bureau of Business Research, located on the first floor of the Commerce-Journalism Building.

The primary purpose of the Bureau is the promotion of research by

faculty and students. Although special emphasis is given to problems of economic development in Georgia and the Southeast, all types of business and economic research are encouraged and supported by the Bureau. This support is provided through its reference collection of business and economic materials, its training program in research techniques, and advice and consultation on individual research problems.

Through Bureau contract research projects faculty and graduate students are given the opportunity to be of service to the business community of Georgia. The research interests of the Staff of the Bureau and the supporting faculty are not narrow, and in cooperation with other University organizations, such as The Institute of Community and Area Development and The Institute of Law and Government, the College of Business Administration is able to provide many types of economic development assistance to communities and areas throughout the State.

The Bureau's monthly bulletin, *GEORGIA BUSINESS*, is available without charge to residents of Georgia. In addition to feature articles on business and economic subjects, some fifteen indicators of local activity in more than twenty Georgia cities are presented regularly. Estimates of sales in all 159 Georgia counties are also reported monthly. An annual review number is issued in February.

The Bureau also publishes the *GEORGIA STATISTICAL ABSTRACT*, a compilation of basic data on the State's population, government, and business; the *SOUTHEASTERN RESOURCES HANDBOOK*, a major and continuing study of the natural and man-made resources of ten Southeastern States; and a series of faculty research papers and monographs.

Other current projects include the continuing study of the tourist industry of the State, the development of income estimates for individual Georgia counties, and the compilation and publication of state and local economic indexes.

The Bureau was organized in 1928. It is a member of the Associated University Bureaus of Business and Economic Research.

## HONORS PROGRAM

Coordinator: James L. Green

Effective in September, 1963, the faculty of the College of Business Administration established an Honors Program for its students to be operated coordinately with a similar program in the Franklin College of Arts and Sciences. Under this program a student who has the academic qualifications for Honors work may carry a full program of such studies through the major part of the junior year. Honors sections are not provided in major courses, for it is believed that normally close working relations with professors at that level makes such action unnecessary.

Admission of students to the Honors Program is by invitation only. Beginning freshmen are admitted on the basis of high school grades and scores on the College Entrance Examination Board Scholastic Aptitude tests, and on the basis of placement and qualifying examinations administered by the University. For all other students, grades made at the University determine admission to the Program. To be admitted to the Program and to remain in it, a student should have a cumulative scholastic average of 88, or have a reasonable prospect of attaining such an average.

Honors courses available in the College of Business Administration include:

Accounting H112 and H113  
 Business Administration H380  
 Economics H115  
 Economics H116  
 Economics H143

Economics H322  
 Economics H396  
 Finance H336  
 Management H362  
 Marketing H369

Principles of Accounting  
 Business Law  
 Principles of Economics  
 Problems of Economics  
 Economic Development of the  
 United States  
 Elementary Economic Statistics  
 Labor Economics  
 Money and Banking  
 Principles of Organization  
 Principles of Marketing

### SCHOLARSHIPS AND LOAN FUNDS

**THE ATLANTA FEDERAL SAVINGS SCHOLARSHIP.** Two awards of \$500 each are provided annually by the Atlanta Federal Savings and Loan Association to graduates of Atlanta and Fulton County high schools. One award goes to an entering freshman and the other to a senior. Both awards are based on financial need and student record.

**THE CHEMSTRAND SCHOLARSHIP.** An annual award of \$500 is provided by the Chemstrand Corporation to a selected senior.

**THE RAYONIER SCHOLARSHIP.** An annual award of \$500 is provided by the Rayonier Corporation to a selected senior.

Loan funds are available for deserving students. Information on loan funds and scholarships is available from the Director of Placement and Student Aid.

### GRADUATE STUDY

In the Graduate School of the University the degrees of Doctor of Philosophy in Economics, Master of Business Administration, Master of Arts in Economics, Master of Arts in Business, and Master of Accountancy are offered.

The Doctor of Philosophy in Economics is offered for those who wish to prepare for academic careers and for high-level positions in business and government. Additional information regarding this program of study is available in the Graduate School section of this catalogue.

The Master of Business Administration is a professional degree for students intending to enter directly into business. It is designed to meet the needs of graduates of liberal arts colleges as well as of professional and technical schools. A program of four quarters of graduate work is necessary for applicants holding the B.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.

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 of Journalism. For details of this program see the Journalism section of this catalogue.

Graduate training in research methods is provided by a program leading to the degree of Master of Arts in either business administration or economics. The requirements for the Master of Arts degree 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 logical whole. Upon the option of the students' major department, a reading knowledge of a foreign language may be required. The minimum residence requirement for the degree, Master of Arts, is one academic year, or three quarters.

The Master of Accountancy degree is designed to prepare students for professional careers in public accounting or for executive positions in private accounting. It is open to students who hold a B.B.A. degree or its equivalent, with a least 30 quarter hours in accounting subjects, including Accounting 110-111. The program of study contains both professional accountancy courses and courses in general business and economics. It can be completed in four quarters. There is no thesis or foreign language requirement.

### DEGREE REQUIREMENTS

A total of 187 quarter hours, exclusive of Physical Education 1-2 and Military Science 1-2 or Air Science 5-6, is required for the Bachelor of Business Administration degree. Physical Education 1-2 is required of all freshmen and sophomore students except veterans. Military Science 1-2 or Air Science 5-6 is required of all freshmen and sophomore male students except veterans\*. Business Administration 101-102 is required of all freshmen.

### TRANSFER STUDENTS

The specific credit for work done at other institutions which will apply toward the Bachelor of Business Administration degree is determined by the Dean of the College of Business Administration. The amount of such transfer credit shall not in any case exceed that allowed by the Director of Admissions of the University. Allowance of transfer credit by the Director of Admissions does not mean necessarily that all of such credit will be accepted toward a Bachelor of Business Administration degree.

Transfer students admitted for the Fall Quarter, whose credits are received in time for evaluation by the Director of Admissions before the beginning of the quarter, will receive a check-list from the Dean of the College of Business Administration showing completed curriculum requirements and the remaining courses necessary for the Bachelor of Business Administration degree.

General regulations governing transfer students are given on page 73.

### ACADEMIC WORK LOAD

The normal load of work is 15 to 18 academic hours. For the conditions under which extra hours may be taken see page 83.

Except in special cases a student will not be permitted to schedule less than a normal load of 15 academic hours. A student who drops to less than 15 hours of work after the first five days of the quarter will normally receive a grade of WF on the course or courses dropped.

Students registered for extra hours may be permitted by the Dean to drop to a normal load, but if the course is dropped after the first five days of the quarter and the grade received is W, the student forfeits for the next quarter the right to schedule extra hours.

### FRESHMAN AND SOPHOMORE REQUIREMENTS

Freshman Adviser: Henry S. McDonald

The candidate for the Bachelor of Business Administration degree is responsible for meeting the requirements as listed.

\*Transfer students see page 435, paragraph 2.

	Hours
Business Administration 101-102 .....	2
English 101-102 .....	10
Mathematics 100 or 101, and 235 .....	10
Laboratory Science .....	10
Social Studies .....	15
Humanities .....	10
Political Science 101 .....	5
Business Administration 109 .....	5
Accounting 110-111 .....	10
Economics 105-106 .....	10
Economics 133 or 134 .....	5
Physical Education 1-2 (for men) .....	0
Physical Education 1-2 (for women) .....	10
Military Science 1-2 or Air Science 5-6 .....	12
<hr/>	
Total freshman and sophomore hours	102 or 104

### JUNIOR AND SENIOR REQUIREMENTS

Core Curriculum—Grades of C or better required .....	35
Major—grades of C or better required .....	30
Arts and Sciences Senior Division Electives (See Item 14 below) .....	10
Electives .....	20
<hr/>	
Total junior and senior hours	95

### EXPLANATION OF ABOVE REQUIREMENTS

	Hours
1. Business Administration 101-102, Orientation to Business .....	2
Must be taken the freshman year. No students other than freshmen may receive credit for this course. Transfer students with sophomore and above standing are exempt from this requirement.	
2. English 101-102, Composition .....	10
Grade of C or better in English 101 and average grade of C (73) or better required for English 101-102	
3. Mathematics 100, Algebra, or 101, Trigonometry, and 235, Finite Mathematics .....	10
4. Laboratory Science .....	10
One of the following double courses	
Botany 121-122	
Chemistry 121-122	
Geography 121-122	
Geology 125-126	
Physics 127-128	
Students may substitute Mathematics 210 and/or 254 for either 5 or 10 hours of laboratory science. Students may also fulfill the laboratory science requirement by taking Physics 120 and either Mathematics 210 or 254.	



5. Social Studies .....	15
Three courses from the following:	
Anthropology 102	
Geography 101	
Psychology 101	
Sociology 105	
Either History 111 or 112	
6. Humanities .....	10
Two courses from any one of the following:	
English 121-122, Western World Literature	
Foreign Language (two courses in one language)	
Classical Culture	
Philosophy	
7. Political Science 101, American Government .....	5
8. Business Administration 109, Business and Professional Speech .....	5
9. Accounting 110-111, Principles of Accounting .....	10
10. Economics 105-106, Economic Principles and Problems .....	10
11. Economics 133, Economic Development of the United States or Economics 134, Economic Development of Europe .....	5
Total (academic) hours .....	92
12. Business Administration 370, Business Law .....	5
Economics 312, Elementary Economic Statistics .....	5
Economics 386, Labor Economics .....	5
Finance 326, Money and Banking .....	5
Finance 330, Business Finance .....	5
Management 351, Principles of Management .....	5
Marketing 360, Principles of Marketing .....	5
13. Major Concentration .....	30
14. Arts and Sciences Senior Division electives .....	10
May be selected from any course numbered 300 or above offered in the College of Arts and Sciences provided the course prerequisites have been satisfied.	
15. Electives .....	20
May be selected from any school or college of the University provided the course carries credit of three or more quarter hours. Students who take Advanced Military or Air Science will receive elective credit.	
Total Requirements .....	187
(Exclusive of Physical Education 1-2 and basic Military or Air Science)	
For transfer students who are exempt from BA 101-102, a total of 185 academic hours is required.	

### EXEMPTION OF COURSES

An increasing number of well prepared students are exempting certain elementary courses in English, chemistry, mathematics, political science, and zoology by passing examinations in these subjects. Not only does this give a greater number of electives, thereby enabling the student to obtain a richer program, but in a few instances college credit is given.

Exemption of elementary courses by qualified students is encouraged.

The courses listed above fall into three groups; junior division courses are those numbered under 200; courses which may be approved as either junior or senior division are numbered 200 to 299; senior division courses numbered

300 or above. A junior division student is one who has less than 85 academic hours credit and a senior division student is one who has 85 or more academic hours. A student should complete the junior division requirements before registering for senior division courses and senior division students must give priority to registration for all uncompleted junior division requirements. Certain required junior division courses may not be offered during the summer quarter. However, students who postpone such courses will not be permitted to make substitutions.

Although the minimum number of academic hours required for graduation is 187, it does not necessarily mean that the obtaining of 187 hours of credit will insure one a degree. There are certain other specific requirements which must be satisfied in order to qualify for the Bachelor of Business Administration degree.

1. Residence Requirements:

- (a) A minimum of 90 quarter hours in the University of Georgia.
- (b) A minimum of 45 hours of Business Administration senior division courses in residence in the College of Business Administration.
- (c) At least half the courses constituting the major must be taken in residence.

2. Senior Division Requirements:

- (a) 60 hours of senior division courses after reaching senior division standing.
- (b) 30 hours of senior division courses must be taken in residence during the 3 quarters immediately preceding graduation.
- (c) The grade in each course in the core curriculum must be C or better.

3. Major Concentration Requirements:

- (a) No course taken before a student has obtained senior division standing may count as part of his major regardless of the course number and grade.
- (b) Substitutions for courses listed in the major must be approved in writing by the student's major professor or the Dean.
- (c) The grade in each major course must be C or better.

4. Scholastic Requirements:

An average of C (73) with not more than 45 hours of D grades must be obtained.

5. Examination on the Constitutions:

Examinations on the Constitution of the United States and that of the State of Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with these Constitutions.

6. Examination on United States and Georgia History:

Examinations on the history of the United States and of Georgia are required of all persons receiving a degree from the University unless exempted by credit in courses dealing with this history.

## PROGRAMS OF STUDY ACCOUNTING

Head: HAROLD M. HECKMAN

Accounting knowledge is fundamental in business whether it be in finance or other service, 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 prac-

tices in the control of business through records and reports, and likewise a knowledge of how to prepare these essential records and reports. Governmental regulations including taxation further emphasize the necessity of accounting knowledge.

Required courses for all majors in accounting:

	Hours
Accounting 311, Cost Accounting .....	5
Accounting 453, Accounting Theory, first course .....	5
Accounting 454, Accounting Theory, second course .....	5
Accounting 515, Income Taxation .....	5

There are two distinct sequences of accounting courses which may be taken, one leading to work for private concerns and the other to the public accounting field. For those preparing to enter the public accounting field, it is recommended that a fifth year of study be taken leading to the degree of Master of Accountancy.

Recommended courses for private accounting in addition to the required:

Business Administration 315, Punched Card Equipment .....	5
Accounting 316, Punched-Card Accounting .....	5
Accounting 413, Advanced Cost Accounting .....	5
Accounting 449, Analysis of Financial Statements .....	5
Accounting 456, Current Accounting Theory and Research .....	5
Accounting 521, Data Processing .....	5
Accounting 574, Internal Auditing .....	5
Accounting 579, Functions of the Controller .....	5
Accounting 581, Accounting Systems .....	5

Recommended courses for public accounting in addition to the required:

Business Administration 315, Punched-Card Equipment .....	5
Accounting 316, Punched-Card Accounting .....	5
Accounting 413, Advanced Cost Accounting .....	5
Accounting 456, Current Accounting Theory and Research .....	5
Accounting 517, CPA Review .....	5
Accounting 519, Advanced Taxation .....	5
Accounting 521, Data Processing .....	5
Accounting 556, Accounting Problems .....	5
Accounting 557, Consolidated Statements .....	5
Accounting 572, Auditing Theory .....	5
Accounting 573, Auditing Problems .....	5

## BANKING AND FINANCE

Head: ROBERT R. DINCE

The major in finance has been designed to provide the student an intimate knowledge of the relative investment merits of the various classes of corporate securities and the nature of our complex banking and financial structure. Modern industry is characterized by the predominance of the corporate form of business enterprise and by the emphasis upon financial management.

The field is divided into four major segments: the financial process, financial institutions, investments, and the economics of finance. A student by taking courses in finance combined with courses in accounting, economics, or management can prepare himself either for a position in a financial institution or a position as a financial executive.

Recommended Courses

	Hours
Finance 430, Corporation Financial Policy .....	5
Finance 431, Investments .....	5
Finance 432, Investment Management .....	5

Finance 434, Public Finance .....	5
Finance 435, State and Local Public Finance .....	5
Economics 436, Business Cycles .....	5
Finance 439, Financial Planning and Control .....	5
Finance 450, Monetary Policy .....	5
Finance 451, Commercial Banking .....	5
Finance 488, Security Analysis .....	5
Finance, 533, Credit and Collections .....	5
Accounting 449, Analysis of Financial Statements .....	5
Accounting 515, Income Taxation .....	5
Accounting 555, Management Accounting .....	5
Economics 480, International Trade and Finance .....	5
Management 599, Business Policy .....	5
Real Estate 393, Real Estate Finance .....	5

### ECONOMICS

Head: NORMAN J. WOOD

An understanding of the nature of economics, a knowledge of the basis of free-enterprise capitalism, and an awareness of some national economic goals are in order for an individual who lives and works within our dynamic economic system. To attain these objectives, the Department of Economics offers students a major field of study in Economics. The Department also offers a major in Industrial Relations for those students who are primarily interested in the economics of labor-management relations.

### ECONOMICS

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 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.

The program of study for Business Administration students majoring in Economics is as follows:

(1) Either Economics 405 (Intermediate Micro-Economic Theory) or Economics 406 (Intermediate Macro-Economic Theory) will be taken as part of the major.

(2) In addition, the student should complete 25 hours from the following list of courses:

	Hours
Economics 405 or Economics 406 (whichever is not taken to satisfy (1) above) .....	5
Economics 410, Economic Growth and Development .....	5
Economics 434, Public Finance .....	5
Economics 436, Business Cycles .....	5
Economics 437, Comparative Economic Systems .....	5
Economics 444, Government and Business .....	5
Economics 445, Private Enterprise and Public Policy .....	5
Economics 450, Monetary Policy .....	5
Economics 480, International Trade and Finance .....	5

### INDUSTRIAL RELATIONS

Efficient use of our labor resources is vital to the nation's prosperity and well-being. Efficiency, however, requires an understanding of the numerous relationships between management and worker which extend beyond the

technical organization of the process itself. It involves an understanding of personal and group behavior and relationships, an understanding of the development and goals of the employee organizations with which management deals, the collective bargaining process, and the public controls of the worker-management relationship. The industrial relations program is broadly oriented. The increased public concern with the strength and activities of organized employee groups makes many of the issues of industrial relations urgent matters of public policy. Study in this field is considered as part of the equipment of the citizen as well as training for future employment.

Hours

## Required courses:

Economics 489, The Labor Movement .....	5
Economics 490, Labor Legislation .....	5
Economics 491, Collective Bargaining .....	5
Management 585, Personnel Administration .....	5

## Two courses (10 hours) to be selected from:

Economics 455, Contemporary Economic Problems .....	5
Management 595, Administrative Practices .....	5
Psychology 371, Applied Psychology .....	5
Sociology 380, Industrial Sociology .....	5
Sociology 409, Social Change .....	5

## GENERAL BUSINESS

Adviser: ROBERT T. SEGREST

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 and for those who do not desire more specialized training. Emphasis is placed upon a broad view of business as a whole rather than upon some one of the specialized functions in business administration.

The courses listed below provide useful training for the prospective businessman regardless of the type of business entered. With the approval of the adviser the student may select other courses for this major provided that no more than two courses from any one department may be used.

The student who desires basic training in secretarial skills may apply ten hours of Business Education toward this major. Such students should also take their free electives in Business Education.

Hours

Accounting 515, Income Taxation .....	5
Accounting 555, Management Accounting .....	5
Business Administration 576, Business Law, second course .....	5
Economics 455, Contemporary Economic Problems .....	5
Economics 496, Managerial Economics .....	5
Finance 430, Corporate Financial Policy .....	5
Finance 431, Investments .....	5
Management 352, Industrial Operations .....	5
Management 599, Business Policy .....	5
Marketing 560, Principles of Retailing .....	5
Marketing 571, Marketing Management .....	5
Real Estate & Insurance 388, Property Insurance .....	5
Real Estate & Insurance 390, Real Estate Principles .....	5

## MANAGEMENT

Head: HOWARD R. SMITH

The essence of business operation is the combining of resources of all kinds into an effective going concern. Because the task is as complex as it is challenging and fascinating, this program of study in management recognizes that careers in management will normally be fashioned by a long process of development on the job. Thus, this course of training is designed primarily to provide the student with tools which will both facilitate on-the-job development and make certain that this learning will be solidly grounded. To that end the focus of attention will be on principles and on the making of decisions in real-life situations—for only as an understanding of fundamentals is joined to an intimate acquaintance with the concrete world of business organizations can effective business leadership be achieved.

Required courses:	Hours
Management 597, Organization Theory .....	5
Management 599, Business Policy .....	5

In addition to these courses required of all management majors, each student will elect one of three concentration areas around which to shape the remainder of his major program. These are *Industrial Management*, *Personnel Management*, and *General Management*. The student will work out the details of his program with his adviser from the offerings of the Department and such other courses as may seem appropriate for the student's special needs.

## MARKETING

HEAD: Carl T. Eakin

Concentrated study of marketing and distribution is two-fold in purpose: first, it trains students for positions in sales organizations, in transportation companies, in market research, in retailing, 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.

Large scale production, regional specialization in production, and the development of metropolitan and urban areas far removed from sources of supply have necessitated a complex marketing machinery. The marketing curriculum provides a broad background of knowledge, attitudes, and skills that are basic to a career in a field which is constantly demanding college graduates for executive positions.

In order to make the marketing major more meaningful, courses should be paralleled by work experience whenever feasible. With this view in mind superior students within 55 hours of graduation are encouraged to take Business Administration 340, Business Practice, so that they may enter a business establishment for the purpose of obtaining practical supervised experience.

Required courses for all majors in Marketing:	Hours
Marketing 465, Marketing Research and Analysis .....	5
Marketing 567, Marketing Promotion .....	5
plus either one of the following:	
Marketing 566, Economics of Marketing .....	5
Marketing 571, Marketing Management .....	5

There are four sequences of courses which a student may take, depending upon his particular interests and professional career objectives. In addition to the 15 hours above, the marketing major can elect 15 hours in one of the following sequences, or he can take a general program developed in consultation with his adviser.

	Hours
<b>MARKETING PROMOTION SEQUENCE</b>	
Marketing 563, Advertising and Display .....	5
Marketing 564, Sales Management .....	5
Another approved major course .....	5
<b>RETAILING SEQUENCE</b>	
Marketing 560, Principles of Retailing .....	5
Marketing 562, Retail Merchandising .....	5
Marketing 565, Retail Administration and Policy .....	5
<b>TRANSPORTATION SEQUENCE</b>	
Marketing 559, Principles of Transportation .....	5
Marketing 568, Motor Transportation .....	5
Marketing 569, Industrial Traffic Management .....	5
<b>INDUSTRIAL MARKETING SEQUENCE</b>	
Marketing 487, Commodity Markets .....	5
Marketing 570, Wholesaling .....	5
Marketing 578, Purchasing .....	5

### REAL ESTATE AND INSURANCE

HEAD: William R. Beaton

The real estate industry embraces the development, financing, and marketing of the land resources of the nation. Businessmen bring these resources into use as developers, as owners or managers of real estate enterprises, as brokers and traders, and as real estate financiers. University trained men are in demand for professional type service in property development, brokerage, appraising, property management, mortgage lending, and university professors of real estate. An understanding of real estate matters is essential to an executive in any type of business since he is likely to be faced, at some time, with problems of land development, site selection, financing, leasing, and land purchase.

The real estate major also provides a person with a strong background of basic preparation for taking the examination for a real estate broker's or salesman's license in Georgia. Further, the course of study in the real estate major gives the student a good background for further work toward earning professional designations.

### REAL ESTATE

	Hours
Real Estate and Insurance 385, Casualty Insurance .....	5
Real Estate and Insurance 388, Property Insurance .....	5
Real Estate and Insurance 390, Real Estate Principles .....	5
Real Estate and Insurance 391, Real Estate Brokerage .....	5
Real Estate and Insurance 392, Real Estate Management .....	5
Real Estate and Insurance 393, Real Estate Finance .....	5
Real Estate and Insurance 504, Real Estate Appraising .....	5
Real Estate and Insurance 590, Problems in Real Estate .....	5
Business Administration 576, Business Law, second course .....	5

### INSURANCE

The insurance major is designed to give the student a broad understanding of the place and functions of risk bearing institutions in a private economy, the opportunity for professional advancement in the insurance field, 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 insurance program of study is designed to enable one to achieve professional competency as well as to become a more intelligent purchaser of insurance.

Real Estate and Insurance 385, Casualty Insurance .....	5
Real Estate and Insurance 387, Life Insurance .....	5
Real Estate and Insurance 388, Property Insurance .....	5
Real Estate and Insurance 390, Real Estate Principles .....	5
Real Estate and Insurance 502, Casualty Insurance Problems .....	5
Real Estate and Insurance 503, Property Insurance Problems .....	5
Real Estate and Insurance 505, Insurance Programming & Planning .....	5
Real Estate and Insurance 506, Social Insurance .....	5
Real Estate and Insurance 507, Insurance Agency Management .....	5
Business Administration 576, Business Law, second course .....	5

### COMBINATION PROGRAMS

#### BUSINESS ADMINISTRATION AND LAW

Students taking this combination will complete the regular freshman and sophomore program of the College of Business Administration. 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 92 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. Ordinarily a student who is admitted to Law School after three years of academic work must have an above average academic record and a satisfactory score in the Law School Admission Test.

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 minimum credit of 185 hours, exclusive of basic military and physical education) and who are certified by the Dean of the School of Law as being eligible for admission to the second year in that School.

Three quarters in residence, including 45 hours in courses numbered 200 or above, in courses in the College of Business Administration, are required after admission to senior division standing.

#### FRESHMAN AND SOPHOMORE YEARS

Same as required for the regular bachelor of Business Administration degree (see page 367).

#### JUNIOR YEAR

	Hours
Management 351, Principles of Management .....	5
Economics 312, Elementary Economic Statistics .....	5
Economics 386, Labor Economics .....	5
Finance 326, Money and Banking .....	5
Finance 330, Business Finance .....	5
Marketing 360, Principles of Marketing .....	5
Major .....	30
<b>Total</b> .....	<b>60</b>

#### SENIOR YEAR

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



**BUSINESS ADMINISTRATION AND DAIRY PLANT  
MANAGEMENT**

ADVISER: Herbert B. Henderson

In cooperation with the Dairy Department, College of Agriculture, the College of Business Administration offers a major in Dairy Plant Management for those students who wish to combine a technical knowledge of the dairy manufacturing industry with business administration training. This is a four year special program leading to the degree of Bachelor of Business Administration. Students selecting this concentration should begin the special curriculum during the freshman year.

FRESHMAN AND SOPHOMORE YEARS

	Hours
Business Administration 101-102 .....	2
English 101-102 .....	10
Mathematics 100 or 101 and 235 .....	10
Physical Science 101 .....	5
History 111 or 112 .....	5
Political Science 101 .....	5
Chemistry 111-112 .....	10
English 121-122 .....	10
Business Administration 109 .....	5
Accounting 110-111 .....	10
Economics 105-106 .....	10
Economics 133 .....	5
Electives in Business Administration .....	5
Physical Education 1-2 (for men) .....	0
Military or Air Science .....	12
Total freshman and sophomore hours .....	102 or 104

JUNIOR AND SENIOR YEARS

Bacteriology 350 .....	5
Management 351 .....	5
Business Administration 370 .....	5
Business Administration 576 .....	5
Economics 312 .....	5
Economics 386 .....	5
Finance 326 .....	5
Finance 330 .....	5
Dairy 350 .....	5
Dairy 389 .....	5
Dairy 394 .....	5
Dairy 395 .....	5
Dairy 396 .....	5
Dairy 399 .....	5
<i>MARKETING SEQUENCE</i>	
Management 352, Industrial Operations .....	5
Marketing 560, Principles of Retailing .....	5
Marketing 563, Advertising and Display .....	5
Marketing 564, Sales Management .....	5
Marketing 578, Purchasing .....	5
<i>MANAGEMENT SEQUENCE</i>	
Management 352, Industrial Operations .....	5
Management 585, Personnel Administration .....	5

Management 595, Administrative Practices .....	5
Management 599, Business Policy .....	5
Marketing 578, Purchasing .....	5
<hr/>	
Total junior and senior academic hours .....	95

### BUSINESS ADMINISTRATION AND FORESTRY

ADVISER: Allyn M. Herrick

In cooperation with the School of Forestry, the College of Business Administration offers a major in Forestry for those students who wish to combine technical knowledge of forestry with business administration training. This is a four year special curriculum leading to the degree of Bachelor of Business Administration, specific content to be worked out for each applicant in terms of his particular needs. Students selecting this concentration should begin their planning for it during their freshman year, as no electives are permitted and requirements of the American Association of Collegiate Schools of Business must be met.

### BUSINESS ADMINISTRATION AND INDUSTRIAL GEOGRAPHY

ADVISER: Merle C. Prunty

This major concentration trains students in the fundamentals of economics, geography, and allied fields upon which the expanding field of area planning is based. Its purpose is to provide the background requisite for careers with city, county, metropolitan, and regional planning commissions, private consultative planning and real property development firms, industries concerned with urban-industrial developmental problems—such as railroads; market analysis consultants, and commercial and governmental mapping agencies. This curriculum also provides a superior basis for graduate work in area planning or economic geography.

### FRESHMAN AND SOPHOMORE YEARS

	Hours
Business Administration 101-102 .....	2
English 101-102 .....	10
Mathematics 100 or 101 and 235 .....	10
Political Science 101 .....	5
History 111 or 112 .....	5
English 121-122 .....	10
Geography 121-122 .....	10
Economics 105-106 .....	10
Economics 133 .....	5
Business Administration 109 .....	5
Accounting 110-111 .....	10
Physical Education 1-2 (for men) .....	0
Military or Air Science .....	12
Electives, 5 hours must be in Business Administration .....	10
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Total freshman and sophomore hours .....	104

### JUNIOR AND SENIOR YEARS

	Hours
Business Administration 370 .....	5
Economics 312 .....	5
Economics 386 .....	5
Economics 480 .....	5

Finance 326	5
Finance 330	5
Geography 101	5
Geography 350	5
Geography 358	5
Geography 420	5
Geography 436	5
Geography 459	5
Geography 460	5
Geography 461	5
Management 351	5
Marketing 360	5
Marketing 465	5
Marketing 559	5
Total junior-senior academic hours	95

### THE BACHELOR OF ARTS DEGREE WITH MAJOR IN ECONOMICS

Applicants for the Bachelor of Arts degree upon entering the Junior Class are required to elect a major division, from which at least eight courses must be taken. One of the major divisions that may thus be elected is the division of Social Sciences and Economics in 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.

## 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.

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

### ACCOUNTING

Head: Heckman. Staff: Baker, Bell, Carpenter, Diaz-Maestre, Hornick, Perdue, and Scott.

110. PRINCIPLES OF ACCOUNTING, first course. *Mr. Heckman.*

An introduction to the fundamentals, practices, and procedures of accounting. Financial statement construction.

111. PRINCIPLES OF ACCOUNTING, second course. Prerequisite: Accounting 110. *Mr. Heckman.*

Accounting principles and basic accounting theories as an aid to management. Cost accounting fundamentals. Analysis and interpretation of financial statements.

H112 (110). PRINCIPLES OF ACCOUNTING, (HONORS), first course. (Not open to students with credit for Accounting 110).

A study of the underlying concepts of accounting, that accounting may properly serve as a language of communication concerning financial facts of an enterprise with a view to analysis, control, and planning of enterprise operations.

H113. (111). PRINCIPLES OF ACCOUNTING, (HONORS), second course. (Not open to students with credit in Accounting 111.)

A continuation of H112.

311. COST ACCOUNTING. Prerequisite: Accounting 111. *The Staff.*

Basic accounting principles and practices as applied to standard costs and job and process costs systems.

316. PUNCHED-CARD ACCOUNTING. Prerequisite: Business Administration

315. *Mr. Homick.*

Application of punched-card techniques to specialized accounting problems of commerce and industry, such as billing, payrolls, cost analysis, inventory control, sales analysis, etc.

413. ADVANCED COST ACCOUNTING. Prerequisite: Accounting 311. *The Staff.*

Cost accounting; a continuation of Accounting 311 with emphasis on distribution cost systems of business operations.

449. ANALYSIS OF FINANCIAL STATEMENTS. Prerequisite: Accounting 111.

*Mr. Benson.*

Techniques of analysis of balance sheets and income statements and the interpretation of findings; statements of various industries and utilities with interpretations based upon a knowledge of the particular industry.

453. ACCOUNTING THEORY, first course. Prerequisite: Accounting 311.

*The Staff.*

Development of accounting principles and the application to asset accounting.

454. ACCOUNTING THEORY, second course. Prerequisite: Accounting 453.

*The Staff.*

Equity accounting valuation, practices and procedures. Interpretation of accounting data. Financial statement analysis.

456. CURRENT ACCOUNTING THEORY AND RESEARCH. Prerequisite: Senior Standing.

A study of current accounting problems with special emphasis on the publications and pronouncements of professional organizations. Students will explore specific controversial topics and write research papers.

515. INCOME TAXATION. Prerequisite: Accounting 111. *The Staff.*

Federal income tax law applicable to individuals. Tax determination practices and tax planning within the tax law provisions.

517. C. P. A. REVIEW. Prerequisite: Accounting 557. *The Staff.*

General review of all accounting courses preparatory to the state C.P.A. examinations. Open only to students planning to take the C.P.A. examinations.

519. ADVANCED TAXATION. Prerequisite: Accounting 515. *Mr. Heckman.*

Continuation of Accounting 515 with emphasis upon corporation income tax laws, social security taxes, and estate taxes.

521. BUSINESS DATA PROCESSING. Prerequisite: Business Administration 315 or equivalent. *Mr. Skandera.*

To develop an understanding of and an appreciation for the tools of data processing—their operation and application.

555. MANAGEMENT ACCOUNTING. Prerequisite: Accounting 453 and 454.

*Mr. Heckman.*

The uses of accounting data by management in planning, budgeting, and forecasting.

556. ACCOUNTING PROBLEMS. Prerequisite: Accounting 454.

Application of accounting theory to specialized problems of industry, such as consignments, insurance, receivership, and estates; application of funds.

557. CONSOLIDATED STATEMENTS. Prerequisite: Accounting 454. *The Staff.*

Development of special accounting problems incident to corporate organizations in the preparation of consolidated statements, consolidations, and mergers.

572. AUDITING PRINCIPLES. Prerequisite: Accounting 454. *The Staff.*

Principles governing audits and audit procedures; qualifications and responsibilities of the public accountant.

573. AUDITING PROBLEMS. Prerequisite: Accounting 572. *The Staff.*

Application of auditing theories and principles to audit problems with emphasis upon preparation of audit working papers and reports.

574. INTERNAL AUDITING. Prerequisite: Accounting 454. *Mr. Baker.*

Principles of internal control and internal auditing as they apply to the internal auditor; types of internal audits; audit reports; fraud; standards.

579. FUNCTIONS OF THE CONTROLLER. Prerequisite: Accounting 311. *The Staff.*

Principles and functions of the controller and his office; forecasting; budget preparation; variances and allocation of responsibility; application of principles of management psychology to remedying weaknesses.

581. ACCOUNTING SYSTEMS. Prerequisite: Accounting 454. *The Staff.*

A study of the functions of accounting systems and their relationships to the total accounting entity and the designing of accounting systems to carry out such functions.

854. ACCOUNTING THEORY. Prerequisite: Permission of Instructor. *The Staff.*

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.

918. **GOVERNMENTAL ACCOUNTING.** Prerequisite: Accounting 454. *The Staff.*

Accounting problems and procedures pertaining to state and local governments and their institutions; governmental classifications of receipts and expenditures; preparations of reports; budgeting and operation of fund accounts.

## BANKING AND FINANCE

Head: Dince. Staff: Benson, Clement, Floyd, Fuller, Hanna, Timberlake and Waller.

326. (ECONOMICS) **MONEY AND BANKING.** Prerequisite: Economics 106 or permission of Instructor. *Mr. Waller and Staff.*

Money in the economic organization; monetary theory; methods of stabilizing the price level; theories of bank deposits; discount policy and the interest rate of central banks; regulation of credit.

H336. (326). (ECONOMICS). **MONEY AND BANKING. HONORS.** Not open to students with credit in Finance 326. *Mr. Waller.*

Money in the economic organization; monetary theory; methods of stabilizing the price level; theories of bank deposits; discount policy and the interest rate of central banks; regulation of credit.

330. **BUSINESS FINANCE.** Prerequisite: Accounting 111. *Mr. Benson and Staff.*

Financial promotion and organization of the business firm; problems of financial administration; failures; financial rehabilitations.

430. **CORPORATE FINANCIAL POLICY.** Prerequisite: Finance 330. *Mr. Benson.*

Analysis of financial problems and policies of corporations.

431. **INVESTMENTS.** Prerequisite: Finance 326. *Mr. Bunting and Mr. Hanna.*

Elements of an "ideal" investment; examination and testing of specific investment securities.

432. **INVESTMENT MANAGEMENT.** Prerequisite: Finance 330 and Finance 326. Permission of Instructor. *The Staff.*

Considers alternative basic approaches to management of common stock and fixed-income security portfolios. Extensive use is made of investment management cases in specific areas. These include personal trusts, pension funds, endowment funds, insurance companies, and individual accounts. Problems and readings are also assigned.

434. (ECONOMICS) **PUBLIC FINANCE.** *Mr. Clement.*

A general consideration of American public expenditures, revenues, and fiscal administration.

435. (ECONOMICS). **STATE AND LOCAL PUBLIC FINANCE.** Prerequisite: Finance 434. *Mr. Clement.*

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.

439. **FINANCIAL PLANNING AND CONTROL.** Prerequisite: Finance 430. or equivalent, or permission of Instructor. *Mr. Benson.*

A survey of theory, and procedures involved in the development and operation of financial plans and financial control to aid in the administration of commercial and industrial enterprises.

450. (ECONOMICS). **MONETARY POLICY.** Prerequisite: Finance 326. *Mr. Waller.*

Monetary theory and how it affects monetary policy; objectives, techniques, and problems involved: Treasury fiscal and debt management policies as they affect and are affected by Federal Reserve policy.

451. **COMMERCIAL BANKING.** Prerequisite: Finance 326. *Mr. Dince.*

The theory of commercial banking and its effect on the supply of money and national income; the concept of bank asset management; the relationship of asset management to liquidity; commercial banking and the nation's credit structure.

483. **SECURITY ANALYSIS.** Prerequisite: Finance 326. *Mr. Hanna.*

The tools of security analysis are developed and applied to improve critical judgment in the appraisal and selection of securities.

533. **CREDITS AND COLLECTIONS.** Prerequisite: Finance 330. *Mr. Benson.*

An analysis of the principles underlying the extension of credit to finance the transfer of goods and services.

830. **RESEARCH IN CORPORATION FINANCE.** *Mr. Benson and Mr. Dince.*

Individual research in corporation finance. Permission of the instructor required.

850. **RESEARCH IN MONEY AND BANKING.** Permission of the instructor required. *Mr. Dince and Mr. Waller.*

Individual research in money and banking.

## BUSINESS ADMINISTRATION

NOTE: These courses are normally service offerings and may be taken by students irrespective of their major area of study.

101-102. **ORIENTATION TO BUSINESS.** 2 hours (One period a week for two quarters.) *Mr. McDonald.*

Development of the attitudes and skills necessary for success in college; survey of the business world as a whole; study of the separate specialized areas and their educational and personal requirements. Required of all freshmen in the College of Business Administration. (See Item I, page 368).

109. **BUSINESS AND PROFESSIONAL SPEECH.** *The Staff.*

Speech as a practical, manageable tool; improvement of individual proficiency in oral communication; speech practice in situations similar to those encountered regularly in business and industry.

315. **PUNCHED-CARD EQUIPMENT.** *Mr. Homick.*

Introductory course in the operation and use of punched-card equipment. Especially recommended for majors in accounting and statistics.

340. **BUSINESS PRACTICE.** Maximum credit 15 elective 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.

370. **BUSINESS LAW, first course** (Not open to students taking the combined LL.B.-B.B.A. degrees). *Mr. Charles.*

Contracts, sale contracts, uniform sales law, negotiable instruments, bailments, common and public carriers, and agency.

H380. (370). **BUSINESS LAW. (HONORS).** (Not open to students with credit in Business Administration 370). *Mr. Charles.*

The course in Business Law will deal incidentally with substantive law but primarily with the evolution of law through court interpretation and the effect of changing social customs upon these interpretations.

576. **BUSINESS LAW, second course.** *Mr. Charles.*

The second course of Business Law covers agency and principal, business organizations, insurance, property, wills, and bankruptcy. No attempt is made to cover all the law under these topics, but to use them for the basis of discussion of broad legal problems dealing with business.

940. **BUSINESS ORGANIZATION AND THE BEHAVIORAL SCIENCES.** *Mr. Gates*  
Examination of orientation, methods, and findings, of psychology, anthropology, and sociology as they relate to behavior in business organization. Emphasis is on predicting effects of managerial actions on individuals and groups within these organizations.

941. **BUSINESS IN A DYNAMIC ECONOMY.** *Mr. Green.*

Economic analysis of the environment of the business firm with emphasis on the development of factors for relating to all the environmental factors involved in making business decisions and for understanding the economics of the firm; the determinants of economic growth, the problem of economic fluctuations, the interrelation among economic sectors, the relations of the individual firm to fluctuations in income and employment.

942. (ECONOMICS). **QUANTITATIVE METHODS IN BUSINESS.** *Mr. Scheidell.*

Rudiments of probability theory, statistical methods, classical statistical inference, and quantitative decision-making techniques, including: mathematical programming, introduction to the game theory, statistical decision theory, and simple mathematical models for various business problems such as inventory replacement, marketing effectiveness, and allocation of resources.

943. (ECONOMICS). **WAGE THEORY AND DETERMINATION.** *Mr. Wood.*

Factors and criteria important in determination of wage rates, the firm's wage structure, incentive methods of wage payment, and various fringe benefits; various wage theories analyzed and evaluated; special consideration given to wage legislation as well as to management and union wage policies; emphasis placed on the application of economic analysis to labor market problems.

944. (GEOGRAPHY). **WORLD RESOURCES: PHYSICAL, TECHNOLOGICAL AND HUMAN.** *Mr. Hoy, Mr. Northan and Mr. Prunty.*

The study of functional relationships within the resource complex and the role of human, material, and technological resources in economic organizations. Emphasis is on developing a conceptual framework of the role of resources in the changing business environment, including that of the emerging nations of Asia and Africa.

945. **CONCEPTUAL FOUNDATIONS OF BUSINESS.** *Mr. Gates and Mr. Smith.*

Examination of the intellectual, cultural, and legal concepts underlying the business system. Relationship of business system to modern industrial society.

946. **EXECUTIVE CONTROL.** *Mr. Babyeat, Mr. Gates, and Mr. Smith.*

Techniques of control in modern business organizations. Functioning of the executive team. Methods of establishing and attaining immediate and long-run objective in business enterprises.

947. BUSINESS POLICY FORMULATION AND ADMINISTRATION. *Mr. Dince and Mr. Smith.*

A study of conditions which stimulate those under which overall management of a departmentalized business is accomplished, games and cases used wherever they are deemed appropriate. When cases are used, each will relate to a single corporation and they will be drawn from different segments of industry, in order to afford reasonable coverage of the several types of problems requiring major policy decisions.

950. ETHICS IN BUSINESS PRACTICES. *Mr. Bunting.*

An analysis of the changing character of the relationships of business management to social groups including the development of honesty and integrity as fundamental values of managerial development.

## ECONOMICS

Head: Wood. Staff: Adams, Beadles, Biscoe, Danielsen, Drewry, Fuller, Green, Holshouser, Keeling, McDonald, Miller, Scheidell, Segrest, Tailby, and Wright.

105. PRINCIPLES OF ECONOMICS. *The Staff.*

Description and analysis of the economic organization of modern society with a brief introduction to the theory of value and distribution. This course may be taken without Economics 106.

106. PROBLEMS OF ECONOMICS. Prerequisite: Economics 105. *The Staff.*

A further study of economic principles started in Economics 105. Economics 105 and 106 are prerequisites to all advanced courses in economics.

H115 (105). PRINCIPLES OF ECONOMICS. (HONORS). (Not open to students with credit for Economics 105). *The Staff.*

Students will analyze principles underlying economic organization and functioning. Analysis will include introduction to classical, neo-classical, and modern economic theory with added exposure to distribution and value theory.

H116. (106). PROBLEMS OF ECONOMICS. (HONORS). (Not open to students with credit for Economics 106). *The Staff.*

This course is designed to appraise and evaluate the economics of the firm.

133. ECONOMIC DEVELOPMENT OF THE UNITED STATES. *Mr. Fuller and Staff.*

American economic development from the colonial period to the present; economic factors involved in industrial growth and the resulting economic problems.

134. ECONOMIC DEVELOPMENT OF EUROPE. *The Staff.*

Development of the economic aspects of civilization in medieval and modern times; evolution of economic institutions; historical background of present economic problems.

H143. (133). ECONOMIC DEVELOPMENT OF THE UNITED STATES. (HONORS). (Not open to students with credit in Economics 133.) *The Staff.*

American economic development from the colonial period to the present; economic factors involved in industrial growth and the resulting economic problems.

312. ELEMENTARY ECONOMIC STATISTICS. *Mr. Holshouser and Staff.*

Introduction to the collection, presentation, and analysis of quantitative economic data; analysis of central tendency, dispersion, statistical inference, index numbers, time series, and correlation.

H322. (312). ELEMENTARY ECONOMIC STATISTICS. (HONORS). (Not open to students with credit in Economics 312). *Mr. Holshouser.*

This course offers an opportunity for more intensive examination of the theory and application of statistical measures. Inference, including hypothesis testing, is emphasized. Students become familiar with important statistical works and are introduced to such concepts as variance analysis, and multiple and partial correlation.

326. (FINANCE). MONEY AND BANKING. *The Staff.* See Finance 326.

H336. (326). (FINANCE) MONEY AND BANKING. *The Staff.* See Finance H336.

386. LABOR ECONOMICS. *The Staff.*

Survey of labor organizations, wages, hours, unemployment, labor legislation, and current developments in labor. Tools of economic analysis are utilized.

H396. (386). LABOR ECONOMICS. (HONORS). (Not open to students with credit in Economics 386.) *Mr. Beadles.*

Survey of labor organization wages, hours, unemployment, labor legislation and current developments in labor.

405. INTERMEDIATE MICRO-ECONOMIC THEORY. Prerequisites: Economics 105 and 106. *The Staff.*

Economic behavior of households and firms, determination of prices and allocation of resources.

406. INTERMEDIATE MACRO-ECONOMIC THEORY. Prerequisites: Economics 105 and 106. *Mr. Beadles.*

National income accounting and theory. Determination of national income, employment, price level, and growth.

410. ECONOMIC GROWTH AND DEVELOPMENT. Prerequisites: Two senior division courses in economics. *Mr. Wright.*  
Problems and programs of economic growth; specific attention to selected underdeveloped areas.
421. PUNCHED-CARD STATISTICS. Prerequisites: Business Administration 315 and an introductory course in statistics. *The Staff.*  
Use of punch-card machines in the treatment of numerical data; preparation of statistical surveys in a form suitable for machine use in the processing of the data; use of tables in the form of pre-punched cards.
434. (FINANCE). PUBLIC FINANCE. See Finance 434.
435. (FINANCE). STATE AND LOCAL PUBLIC FINANCE. See Finance 435.
436. BUSINESS CYCLES. Prerequisite: Economics 312. *Mr. Green.*  
Economic and social significance of business fluctuations; causes; methods and theories of forecasting; measures for controlling cycles.
437. COMPARATIVE ECONOMIC SYSTEMS. *Mr. Wright.*  
Analysis and appraisal of the theories underlying economic systems; proposed and existing schemes with respect to the maintenance of full employment; distribution of income, and encouragement of progress.
444. GOVERNMENT AND BUSINESS. *The Staff.*  
Economic aspects of business regulation by the government; regulatory developments and methods in the United States; loans and subsidies; fact-finding agencies; government-owned corporations.
445. PRIVATE ENTERPRISE AND PUBLIC POLICY. *The Staff.*  
Imperfect and monopolistic competition theory; monopoly and the concentration of economic power; analytical treatment of price discrimination, basing point pricing, price leadership and other practices; public policy, as expressed in the anti-trust laws.
450. (FINANCE). MONETARY POLICY. See Finance 450.
455. CONTEMPORARY ECONOMIC PROBLEMS. *The Staff.*  
An application of economic theory to certain problems of contemporary economic life such as monopoly, business cycles, tariffs, inflationary influences, industrial conflict, etc.
480. INTERNATIONAL TRADE AND FINANCE. *Mr. Drewry.*  
Economic importance and problems of international trade; exchange rates and monetary standards; tariffs and other trade barriers; debts; the position of international trade in the post-war world.
489. THE LABOR MOVEMENT. Prerequisite: Economics 386. *Mr. Segrest.*  
Historical background of modern industrial relations; economic, social and political forces contributing to the current problems in labor economics.
490. (MANAGEMENT). LABOR LEGISLATION. Prerequisite: Economics 386. *Mr. Beadles.*  
An economic analysis of the problems and issues arising out of the legislative and judicial efforts to define the rights, duties and responsibilities of labor organizations and management in the field of industrial relations.
491. (MANAGEMENT). COLLECTIVE BARGAINING. Prerequisite: Economics 386. *Mr. Beadles.*  
The collective bargaining process with special reference to economic implications.
496. MANAGERIAL ECONOMICS. *Mr. Drewry.*  
Executive decision-making in various types of markets; demand, price, and output analysis utilizing micro- and macro-economic tools; public policy.
545. CONTEMPORARY ECONOMICS FOR TEACHERS I. *The Staff.*  
For public school teachers only. Employment theory. Emphasis is placed upon recent development and varying points of view in contemporary economics. May not be counted as part of an undergraduate degree program.
546. CONTEMPORARY ECONOMICS FOR TEACHERS II. *The Staff.*  
Continuation of Economics 545. For public school teachers only. Price and output determination. Monopoly. International trade. Economic development. Emphasis is placed on current developments and varying points of view in contemporary economics. May not be counted as part of an undergraduate degree program.
577. PUBLIC UTILITIES. *The Staff.*  
Development characteristics, rights and duties of public utilities; problems of regulation and rates; service; securities; holding companies in the electric utilities; activities of the Federal government in the power field.
591. APPLIED ECONOMIC STATISTICS. Prerequisite: Economics 312 or Mathematics 357. *Mr. Holshouser.*  
Sampling design, applications of sampling theory and significance testing in economics and business, elementary analysis of variance, and multiple regression and correlations.
805. ADVANCED ECONOMIC THEORY I. *Mr. Miller*  
An analysis of selected problems of economic theory.
806. ADVANCED ECONOMIC THEORY II. *Mr. Miller.*  
The continuation of Advanced Economic Theory I.
807. THE HISTORY OF ECONOMIC THOUGHT. *Mr. Keeling.*  
The evolution of the important principles of economics with emphasis on the history of the theories of value and distribution. Permission of the instructor required.



809. **ADVANCED ECONOMIC THEORY III.** Prerequisite: Advanced training in economic theory and consent of instructor. *Mr. Wright.*

An application of the concepts of micro- and macro-economic theory to a world of disturbance, change, and growth. Special attention will be given to price theory and the theory of the firm in relation to unemployment and monopoly under dynamic conditions.

836. **SEMINAR IN BUSINESS CONDITIONS ANALYSIS.** Prerequisite: Economics 436 and consent of instructor. *Mr. Green.*

Study of recent developments and research in economic theory and techniques as they relate to business conditions analysis. Economic growth, short-run disturbances, adjustment processes, and questions of welfare and public policy all are viewed within the framework of a general equilibrium system.

844. **SEMINAR IN GOVERNMENT AND BUSINESS.** *The Staff.*

Current issues in the field of government relations to business and particular emphasis on problems associated with monopoly and competition.

850. **(FINANCE). RESEARCH IN MONEY AND BANKING.** See Finance 850.

870. **MATHEMATICAL ECONOMICS I.** *Mr. Scheidell.*

Application of mathematical methods to economic theory and problems including joint supply and demand relationship, general equilibrium, cost curves, and production functions.

871. **MATHEMATICAL ECONOMICS II.** *Mr. Scheidell.*

Application of mathematical techniques to selected topics in micro- and macro-economics, including measuring and testing hypotheses and the construction of economic models.

886. **PROBLEMS IN INDUSTRIAL RELATIONS** *Mr. Wood.*

Union wage policy; union influence on related earnings; unions and the general level of wages and prices.

890. **INDEX NUMBERS.** *Mr. Holshouser.*

Index number construction and interpretation; a survey of the most important index numbers currently used in economic statistics.

891. **RESEARCH IN APPLIED ECONOMICS STATISTICS.** *Mr. Holshouser.*

Individual research in the application of statistical methods to economic problems. Permission of the instructor required.

892. **TIME SERIES ANALYSIS.** *Mr. Holshouser.*

Statistical time series analysis and its application to economic analysis.

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.

894. **ECONOMICS SEMINAR.** *The Staff.*

A continuation of Economics 893.

942. **(BUSINESS ADMINISTRATION). QUANTITATIVE METHODS IN BUSINESS.**

Same as Business Administration 942.

943. **(BUSINESS ADMINISTRATION). WAGE THEORY AND DETERMINATION.**

Same as Business Administration 943.

## MANAGEMENT

Head: Smith. Staff: Balyeat, Finn, Gates, Goebel, Rees, and Tate.

351. **PRINCIPLES OF MANAGEMENT.** *The Staff.*

Fundamentals of staff and operative management; management principles and techniques; application of techniques to specific fields.

352. **INDUSTRIAL OPERATIONS.** Prerequisite: Management 351. *Mr. Balyeat.*

The general organization and management of an industrial plant. Process analysis, plant location, plant layout, purchasing, materials handling, quality control, maintenance and production control systems.

H362. **(351) PRINCIPLES OF ORGANIZATION AND MANAGEMENT. (HONORS).** (Not open to students with credit for Management 351). *The Staff.*

Fundamentals of staff and operative management; major emphasis is given to an analysis of the process of management as it involves concepts, behavior and practices; techniques underlying the basic management functions of organizing, planning, directing and controlling are developed and applied, through case analysis.

575. **MANAGEMENT OF BUSINESS RESEARCH PROGRAMS.** Prerequisite: Senior standing. *Mr. Keeling.*

Organization and financial management of business research programs as enterprises; by size, by function and by relative position in the field.

582. **(PSYCHOLOGY). EMPLOYMENT METHODS: TESTING.** 3 hours. Prerequisite: Economics 312 or Mathematics 357. *Mr. Finn.*

Tests and interpretation of test scores in reference to specific employment situations; values and limitations of tests; test validation in new situations.

585. PERSONNEL ADMINISTRATION. Prerequisites: Psychology 101 and Economics 386. *Mr. Balyeat.*

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.

586. (PSYCHOLOGY). JOB EVALUATION. 3 hours. Prerequisite: Economics 312 or Mathematics 357. *Mr. Finn.*

This course is a study of various methods of job analysis and job evaluation. The advantages and disadvantages of the various systems in relation to the types of work situations are considered and actual jobs analyzed and evaluated.

587. (PSYCHOLOGY). WORK AND EFFICIENCY. 3 hours. Prerequisite: Economics 312 or Mathematics 357. *Mr. Finn.*

Human aptitudes in relation to work and equipment design; lighting, noise, ventilation, motor activities, body orientation, machine controls, etc. in relation to human limitations.

592. (PSYCHOLOGY). EMPLOYMENT METHODS: INTERVIEWING. 2 hours. Prerequisite: Economics 312 or Mathematics 357. *Mr. Finn.*

Employment interviewing and practice in both interviews and being interviewed; limitations of interviewing procedure.

593. (PSYCHOLOGY). WORK MEASUREMENT. 2 hours. Prerequisite: Economics 312 or Mathematics 357. *Mr. Finn.*

Methods of measuring work; factors which affect the duration of work; principles of working methods and job layouts.

594. (PSYCHOLOGY). MERIT RATING. 2 hours. Prerequisite: Economics 312 or Mathematics 357. *Mr. Finn.*

Ways of determining the worth of employees on jobs where quantitative measurement is impossible; method of determining traits for rating, of weighing traits, and of rating traits.

595. ADMINISTRATIVE PRACTICES. *Mr. Smith and Mr. Tate.*

Individual and group behavior in organizations; nature and crucial importance of communications, employee motivations and group dynamics; development of greater effectiveness in the business organizations.

599. BUSINESS POLICY. Prerequisite: Core Curriculum. *The Staff.*

Capstone course utilizing all of the major fields in business administration to allow the senior student to apply these skills in situations dealing with the firm as a whole.

## MARKETING

Head: Eakin. Staff: Harris, Horton, Rucker, Thompson, Tritt, Troelston.

360. PRINCIPLES OF MARKETING. *The Staff.*

Principles and methods involved in the movement of goods and services from producers to consumers.

H369. (360) PRINCIPLES OF MARKETING. (HONORS). (Not open to students with credit for Marketing 360). *Mr. Eakin and Mr. Troelston.*

A study of the basic functions and theories of the field of marketing. A study of marketing programs through the use of case studies and written reports.

465. MARKETING RESEARCH AND ANALYSIS. Prerequisite: Marketing 360. *Mr. Thompson.*

Scientific method in the construction of several marketing research studies; the solution of specific distribution problems; qualitative market analyses; market trends; data collection, tabulation and interpretation.

487. COMMODITY MARKETS. Prerequisite: Marketing 360. *Mr. Troelston.*

Development, organization and importance of commodity markets; governmental and international regulations and controls; organization and functions of the exchange.

559. PRINCIPLES OF TRANSPORTATION. Prerequisite: Marketing 360. *Mr. Horton.*

Study of the principles of transportation with special emphasis on the history and regulation of railroads.

560. PRINCIPLES OF RETAILING. Prerequisite: Marketing 360. *Mr. Harris.*

The basic background concepts and analytical tools of the field; physical plant; personnel; inventory; pricing; buying; sales promotion control.

562. RETAIL MERCHANDISING. Prerequisite: Marketing 560. *Mr. Eakin and Mr. Harris.*

Product buying and selling; merchandise inventory management and control; profit analysis; budget planning; organization principles; research in retailing.

563. ADVERTISING AND DISPLAY. Prerequisite: Marketing 561. *Mr. Rucker.*

Advertising procedures; organization of publicity departments; research media; internal sales promotion; campaigns; display techniques.

564. SALES MANAGEMENT. Prerequisite: Marketing 360. *Mr. Tritt.*

Problems and cases of manufacturers and dealers in the sale of consumer and industrial goods; selection, training, organizing, and directing salesmen.

**565. RETAIL ADMINISTRATION AND POLICY.** Prerequisite: Marketing 562.

*Mr. Eakin and Mr. Harris.*

The development of a management philosophy; analysis and solution of retail problems; integration of retailing functions; development of policies for managing these functions.

**566. ECONOMICS OF MARKETING.** Prerequisite: Marketing 360. *Mr. Troelston.*

Economics of the consumer market; the process of consumption position and responsibilities of the consumer; desirable controls of consumption.

**568. MOTOR TRANSPORTATION.** Prerequisite: Marketing 559. *Mr. Horton.*

A study of the significance and development of motor transportation. Emphasis is placed upon the problems of present day motor carriers. Also regulatory policies and problems.

**569. INDUSTRIAL TRAFFIC MANAGEMENT.** Prerequisite: Marketing 559. *Mr. Horton.*

A study of the factors which influence the movement of freight traffic by various media. In addition, the functions and structure of industrial traffic departments will be studied.

**570. WHOLESALING.** Prerequisite: Marketing 360. *Mr. Rucker.*

Types and classes of wholesale institutions; organization and management with emphasis on selected product groups and trade area.

**571. MARKETING MANAGEMENT.** Prerequisite: Marketing 360. *Mr. Eakin and Mr. Troelston.*

Management of marketing functions in their relations to one another and to the environment of the firm.

**578. PURCHASING.** Prerequisite: Marketing 360. *Mr. Troelston.*

Principles and practices used by manufacturers and other types of business concerns in the purchasing of equipment, raw materials, parts, and supplies.

**960. SEMINAR IN MARKETING.** *Mr. Eakin and Mr. Troelston.*

A study and analysis of marketing theory as it is related to contemporary marketing problems.

## REAL ESTATE AND INSURANCE

Head: Beaton. Staff: Charles, Cobb, and Widdowson.

**385. CASUALTY INSURANCE.** *Mr. Cobb.*

Insurance covering losses due to accidental damage or injury to property or persons; workmen's compensation; health and accident; automobile, public liability; burglary; fidelity and dishonesty; personal liability; and other types of losses.

**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 companies.

**388. PROPERTY INSURANCE.** *Mr. Cobb.*

The functions of property insurance; standard policies; settlement of losses; marine and inland marine; automobile title; credit; other forms of property insurance.

**390. REAL ESTATE PRINCIPLES.** *Mr. Beaton and Mr. Widdowson.*

An introductory study of real estate and the real estate business; basic principles of real property ownership, utilization, and transfer; mortgage financing; brokerage; management; valuation; subdividing; legislation. Prerequisite for all other real estate courses.

**391. REAL ESTATE BROKERAGE.** Prerequisite: REI 390 or consent of instructor. *Mr. Beaton.*

An intensive study of real estate principles and practices, including construction, arithmetic, closing statements, Georgia license law, sales contracts, and terminology, with emphasis on preparation for the Georgia real estate license exam; operations of a real estate office, especially selling and ethics.

**392. REAL ESTATE MANAGEMENT.** Prerequisite: REI 390 or consent of instructor. *Mr. Beaton.*

Principles and practices of professional management of commercial, industrial, and residential buildings; creating a management plan, merchandising space; tenant selection and relations; setting rentals; maintenance; records. Background for further work toward C. P. M. designation.

**393. REAL ESTATE FINANCE.** Prerequisite: REI 390 or consent of instructor. *Mr. Beaton.*

A study of the instruments, techniques, and institutions of real estate finance; sources of funds; mortgage risk analysis; emphasis on typical policies and procedures used in financing of residential, industrial, and commercial properties, including commercial leasing.

**502. CASUALTY INSURANCE PROBLEMS.** Prerequisite: REI 385. *Mr. Cobb.*  
Advanced study of all types of casualty insurance; automobile, professional liability, products liability, and others.

**503. PROPERTY INSURANCE PROBLEMS.** Prerequisite: REI 388. *Mr. Cobb.*  
Practical application of property insurance policies to specific insurance problems; survey and insurance counseling for complex problems.

504. REAL ESTATE APPRAISING. Prerequisite: REI 390, or consent of instructor. *Mr. Beaton.*

The nature of appraisals; principles of value; appraisal process; neighborhood and site analysis; cost, market, and income approaches; preparation of an appraisal report.

505. INSURANCE PLANNING AND PROGRAMMING. *Mr. Charles* and *Mr. Cobb.*

Private life insurance programs correlated to social security or other group coverages; retirement programs.

506. SOCIAL INSURANCE. *Mr. Widdowson.*

Social security; public retirement systems; group retirement plans of private business.

507. INSURANCE AGENCY MANAGEMENT. Prerequisite: 10 hours of insurance courses. *Mr. Cobb.*

Status of the insurance agency; management; aids from the head office; hiring and training sub-agents; sales policies; promotion; sources of contracts; duties to the principal in claims settlements; commissions; records.

590. PROBLEMS IN REAL ESTATE. Prerequisite: 10 hours of real estate courses, including REI 390. *Mr. Beaton.*

Individual study of the economics of urban land use in metropolitan areas; city planning; farm and rural land economics; brokerage, and appraising; industrial real estate practice and industrial property development. Assigned study projects and field trips.

# THE HENRY W. GRADY SCHOOL OF JOURNALISM

JOHN ELDRIDGE DREWRY, A.B., B.J., A.M., *Dean*

## GENERAL INFORMATION

Journalism, in terms of career opportunities and as taught in the Grady School, is a broad, challenging, remunerative, personally satisfying, and socially useful field.

There was a time when to many persons the word *journalism* meant only 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 today 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, radio and television, employee publications and trade journals, general magazines, various aspects of book publishing, advertising and public relations, 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—the entire communications field.

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 profession within itself and an excellent preparation for dealing with the multifarious problems of life.

Just as the term *journalism* once was interpreted to mean only the newspaper, so the expression *education in journalism* has been thought by some to be merely 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. It is a four-way program which includes: (1) basic liberal arts courses; (2) communications history, ethics, and techniques; (3) the sequence related to the phase of communications which the student hopes to enter—news-editorial, radio-tv, advertising-public relations, etc.; and (4) a supplementary major in those subjects which will be most useful in terms of the major sequence—history, political science, economics, for example, for news-editorial; speech, drama, and music for radio-tv; applied psychology, business administration, and art for advertising-public relations.

A student who wishes to be prepared to teach and to supervise school publications and public relations may take the required courses in education as a part of the A.B. in Journalism degree. In the same way a student may combine journalism with art, drama, economics, English, government, history, home economics, music, or other related subjects in which he or she is interested.

In terms of total hours required for the A.B. in Journalism degree, the division is approximately three-fourths general and one-fourth technical courses.

A candidate for the A.B. in Journalism degree has a choice among six sequences: *News-Editorial*, *Broadcasting*, *Advertising-Public Relations*, *Journalistic-Literary Appreciation*, *Journalistic-Secretarial*, and *Journalism-Home Economics*. A student ordinarily does not make a selection among the sequences until the beginning of his junior year, or after he has had orientation courses and counseling in the various phases of journalism.

### JOURNALISM HAS MULTIPLE APPEALS

In addition to those planning careers in some phase of journalism, courses in the School of Journalism are chosen by several other groups, such as the following:

(1) Pre-Divinity Students. Because of the value of a knowledge of the communications field in their later religious duties, an increasing number of young men and women are taking journalism as pre-Divinity School preparation. In this way, they get not only a liberal arts background, but also the techniques and skills of journalism which are useful to the religious worker.

(2) 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.

(3) 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 reporting 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.

(4) Those students who are interested in journalism as a social science. These young people, realizing that the press and radio-tv, 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.

(5) 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, pharmacy, and pre-law students often elect courses in journalism.

(6) 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, radio-tv, and contemporary books, which will constitute an important part of their continuing education 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

Journalism instruction includes not only textbook study, lectures, recitations, and analytical assignments, 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 classes, 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. Theoretical instruction in broadcasting, editing, headline writing, and make-up is supplemented 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. Field trips, publication of special editions, and work as correspondents for metropolitan newspapers and press associations are all a part of the practical training. Several students work for the local newspaper and radio-tv stations.

### INTERNSHIP AND "CO-OP" STUDY

Back in 1931, the Grady School pioneered with internships in journalism, an adaptation of a long-established medical practice. Under this arrangement, the better students are placed with newspapers, radio-television stations, advertising departments, and other phases of journalism for a quarter of practical experience, over and above that which is part of their resident journalism classes. These internships are usually arranged for the vacation period between the junior and senior years, but may be scheduled for other quarters. The "co-op" plan of study is also open to journalism students. This is an arrangement whereby two students alternate, quarter by quarter, university study and employment in the field. Arrangements for internship and "co-op" study are made through the office of the Dean of the School of Journalism.

### 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 are radio-tv studios, a record and seminar room, an editorial laboratory equipped with typewriters, press association wire service, and a copy desk; a large reading room with many newspapers and periodicals; a dark room for the photography course; and a large auditorium for special lectures, institutes, and conferences.

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.

### 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 and television 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 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. Some of these Grady alumni hold very important positions and have made national reputations for themselves and their alma mater.

### 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 persons have been brought to Athens on these occasions. The Press Institute is in its 36th year.

### GEORGIA RADIO AND TELEVISION INSTITUTE

Sponsored jointly by the Georgia Association of Broadcasters and the Henry W. Grady School of Journalism, the Georgia Radio and Television Institute is patterned after the Press Institute, and assembles broadcasters and students to hear addresses by leading persons in the industry and to discuss, at round table sessions, various contemporary broadcasting-telecasting problems. The 1964 Radio and Television Institute was the 19th annual session.

### SOUTHERN INDUSTRIAL EDITORS' INSTITUTE

Sponsored jointly by the Southern Council of Industrial Editors and the Henry W. Grady School of Journalism, the 17th annual session of the Industrial Editors' Institute was held during the fall of 1963. Patterned after the Press Institute and the Radio and Television Institute, the emphasis was on employee publications, trade journals, public relations, and specialized magazines. Outstanding authorities in these fields were the principal speakers.

### REPORTERS' WORKSHOP

Now in its third year, this short course brings to the campus each spring a limited number of newspapermen and women for a refresher course in professional techniques. This workshop has the support of the Georgia Press Association, the Newspaper Fund of the *Wall Street Journal*, and the newspapers whose staff members are enrolled.

### GEORGIA SCHOLASTIC PRESS ASSOCIATION

Sponsored by the School of Journalism and the University chapter of Sigma Delta Chi, the annual convention of the Georgia Scholastic Press Association is held in Athens during the early part of May. The program of this convention 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 a three-fold objective: (1) to stimulate interest in high school writing courses; (2) to raise the standards of high school journalism; 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 distinction; (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.

EDUCATION-INDUSTRY CONFERENCES  
ON ADVERTISING AND PUBLIC RELATIONS

Co-sponsored by the National Association of Manufacturers and the Grady School are the Education-Industry Conference on Advertising and the Education-Industry Conference on Public Relations, both of which are currently in their tenth year and both of which bring outstanding persons to the campus for addresses and panel discussions.

## THE PEABODY RADIO AND TELEVISION AWARDS

The George Foster Peabody Radio and Television Awards recognize the most distinguished and meritorious public service rendered each year by the broadcasting and telecasting industry, and perpetuate the memory of George Foster Peabody, benefactor and life trustee of The University of Georgia.

These awards were established in May, 1940, by the Board of Regents of the University System of Georgia. Nationally prominent Americans constitute the personnel of the Advisory Board which, through the School of Journalism, administers these Awards. They are:

Bennett Cerf, President, Random House, Inc., New York City, Chairman.  
Mrs. Elizabeth Ames, Executive Director, "Yaddo," Saratoga Springs, New York.

Earl J. Glade, Broadcaster and formerly Mayor, Salt Lake City, Utah—President, Advertising Federation of the West.

Mrs. Dorothy Lewis, formerly Coordinator, U. S. Station Relations, United Nations, New York City—Honorary President for U. S. A., International Association of Women in Radio and Television.

Ralph McGill, Publisher, *Atlanta Constitution*.

Mrs. Harold V. Milligan, New York City. (Representing Listening Posts.)  
Newton N. Minow, Executive Vice-President and General Counsel, Encyclopaedia Britannica, Chicago; formerly Chairman, Federal Communications Commission.

Terrence O'Flaherty, Radio-Television Editor, *San Francisco* (Calif.) *Chronicle*.

Paul Porter, Radio-TV attorney, formerly Chairman, Federal Communications Commission, Washington, D. C.

I. Keith Taylor, Director of Radio-TV Education, Ohio State University, Columbus, Ohio.

Miss Harriet Van Horne, Radio-TV Editor, *New York World Telegram and Sun*.

Edward Weeks, Editor, *Atlantic Monthly*, Boston.

Larry Wolters, TV Editor, *Chicago Tribune*.

*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. The University chapter sponsored the organization of the Atlanta professional chapter of Sigma Delta Chi.

### THETA SIGMA PHI

Composed of a selected group of advanced women students, Theta Sigma Phi is a national society 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-tv 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 and Television 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.

### ALPHA DELTA SIGMA

A chapter of this national professional advertising fraternity, named in honor of Samuel C. Dobbs, was installed in the Grady School April 24, 1954. Membership is open to advertising majors with superior records.

### GAMMA ALPHA CHI

This is a professional organization for women students who are especially interested in advertising and related fields.

## 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 semi-weekly newspaper, *The Red and Black*, the editorial staff of which is composed largely of students in the School of Journalism. The campus annual, *The Pandora*, and other publications also have journalism students on their staffs.

 REQUIREMENTS FOR THE DEGREE OF  
 BACHELOR OF ARTS IN JOURNALISM

*Non-journalism courses required in all sequences (core curriculum):*

	Hours
English 101-102 .....	10
<i>A minimum average grade of C (73) is required in English 101-102.</i>	
English 121-122 or English 121 and 310 .....	10
<i>French 201-202 or Spanish 201-202 or German 201-202 or Italian 201-202 may be taken in lieu of English 121-122.</i>	
Physical Science (two courses to be selected from Chemistry 121, 122; Geology 125, 126; Mathematics 100; Physical Geography 104; Physical Science 101; Physics 120) .....	10
Biological Sciences (two courses to be selected from Botany 110, 111, 121, 122; Laboratory Psychology, and Zoology 101, 102) .....	10
Foreign Language .....	10, 15, or 20
<i>Students who offer for entrance two or more units of a foreign language (Greek, Latin, French, German, Spanish, Italian, or Portuguese) are re- quired 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 in 103 and 104. Those students who enter with- out any foreign language credits may absolve the language requirements by taking two courses in each of two languages, or three courses in one language, or two courses in a foreign language plus Classical Culture 301 or 302 and 310. Those students selecting the last named option will be required to take only 15 hours of English (101, 102, and 121),</i>	
Social Science (Economics 105 or 106, Geography 101, Philosophy 104, Political Science 202, Social Science 104, or Sociology 105) .....	5
History 111-112 or 351-352 .....	10
<i>Examinations on the history of the United States and Georgia are re- quired of all persons receiving a degree from the University unless ex- empted by credit courses dealing with this history. Courses approved for this purpose are History 100 and 351-352.</i>	
Political Science 101 .....	5
<i>Students who transfer credit for Political Science 101 from an out-of-state school must satisfy the Georgia Constitution requirements by successfully</i>	

completing *History 459 or Social Science 104 or by passing an examination on the Constitution of the State of Georgia.*

Psychology 101 .....	5
Physical Education 1-2 and Military Science 1-2 or Air Science 5-6 (for men) or Physical Education 1-2 (for women) .....	10-12
Total .....	85-87 or 90-92 or 95-97

*Those students who cannot operate a typewriter are advised to take Business Education 107 or 303-304-305 during their freshman year.*

**A student will not be permitted to register for senior division courses until he has passed the non-journalism courses in the foregoing core curriculum.**

*Journalism courses required in all sequences (core curriculum). Those marked with an asterisk are non-technical or vocational, and are to be regarded as a part of the liberal arts content of the degree requirements.*

Journalism 101 or 350 (Basic Communications Techniques) .....	5
*Journalism 120 or 420 (Principles, Ethics, and Literature) .....	5
*Journalism 130 or 430 (History) .....	5
*Journalism 140 or 440 (Public Opinion) .....	5
Journalism 454 (Law) .....	5
*Journalism 456 (Magazines) .....	5
Journalism 557 (Advertising and Public Relations) .....	5
Journalism 580 (Radio-Television) .....	5

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#### NEWS-EDITORIAL SEQUENCE

*In addition to the core curriculum, a minimum of 25 hours from the following courses in journalism, including those marked with the asterisk (\*):*

*Journalism 100, 200, or 300 (Production) .....	1
*Journalism 351 (Editing) .....	3
*Journalism 352 (Typography and Make-up) .....	3
*Journalism 360 (Advanced Reporting) .....	5
Journalism 377 (Photojournalism) .....	3
Journalism 553 (Editorials) .....	3
Journalism 558 (Article Writing) .....	3
Journalism 559 (Book Reviewing) .....	3
Journalism 564 (Newspaper Management) .....	3
Journalism 567 (Contemporary Newspapers) .....	3
Journalism 537 or 577 (Public Relations) .....	3 or 5
Journalism 581 (Radio-TV News) .....	5
Journalism 590 (Specialized Periodicals) .....	5

*Supplementary Major of at least 30 hours from English and such social sciences as history, political science, sociology, and psychology. Electives to complete a total of 195-197 hours.*

#### BROADCASTING SEQUENCE

*In addition to the core curriculum, a minimum of 25 hours from the following, including those marked with the asterisk (\*):*

*Journalism 100, 200, or 300 (Production) .....	1
Journalism 351 (Editing) .....	3
Journalism 486 (Oral Interpretation of Prose and Poetry) .....	5
Journalism 487 (Oral Interpretation of Dramatic Literature) .....	5
Journalism 544, 545, 546 (5 hours each) (Radio-TV Acting, Directing, and Production) .....	15

*Journalism 565 (Broadcasting Management)	3
*Journalism 581 (Radio-TV News)	5
*Journalism 582 (Radio-TV Programming)	5
*Journalism 583 a-b-c (2 hours each) (Radio-TV Workshop)	6
Journalism 584 (Radio-TV Advertising)	5
Journalism 585 (Television)	5
Journalism 586 (Cinematography)	5

*Supplementary Major* of at least 30 hours from drama, music, and speech, or other related subjects. Electives to complete a total of 195-197 hours.

#### ADVERTISING-PUBLIC RELATIONS SEQUENCE

*In addition to the core curriculum, a minimum of 25 hours from the following courses in journalism, including those marked with the asterisk (\*): for those especially interested in advertising and two asterisks (\*\*) for those interested in public relations:*

**Journalism 100, 200, or 300 (Production)	1
*Journalism 308 (Advertising Art)	5
*Journalism 310 (Senior Seminar)	1
*Journalism 351 (Editing)	3
Journalism 352 (Typography and Make-up)	3
Journalism 377 (Photojournalism)	3
Journalism 574 (Advertising Campaigns)	5
*Journalism 575 (Advertising Copy)	5
*Journalism 576 (Advertising Media)	5
**Journalism 577 (Public Relations)	5
Journalism 578 (Retail Advertising)	5
Journalism 584 (Radio-TV Advertising)	5
Journalism 590 (Specialized Periodicals)	5
**Journalism 591 (PR Case Studies)	3
**Journalism 592 (PR Media)	3

*Supplementary Major* of at least 30 hours from art, business administration, economics, history, political science, psychology, sociology, and speech. Electives to complete a total of 195-197 hours.

#### JOURNALISTIC-LITERARY APPRECIATION SEQUENCE

*In addition to the core curriculum, a minimum of 25 hours from the following courses in journalism, including those marked with the asterisk (\*):*

Journalism 100, 200, or 300 (Production)	1
*Journalism 351 (Editing)	3
*Journalism 360 (Advanced Reporting)	5
Journalism 362 (Fiction Writing)	3
Journalism 363 (Advanced Fiction and Article Writing)	3
Journalism 377 (Photojournalism)	3
Journalism 553 (Editorials)	3
*Journalism 558 (Feature Writing)	3
*Journalism 559 (Book Reviewing)	3
Journalism 537 or 577 (Public Relations)	3 or 5
Journalism 590 (Specialized Periodicals)	5

*Supplementary Major* of at least 30 hours from the humanities, fine arts, social sciences. (American and English literature courses especially recommended). Electives to complete a total of 195-197 hours.

## JOURNALISTIC-SECRETARIAL SEQUENCE

*In addition to the core curriculum, a minimum of 25 hours from the following courses in journalism, including those marked with the asterisk (\*):*

*Journalism 100, 200, or 300 (Production) .....	1
*Journalism 351 (Editing) .....	3
*Journalism 352 (Typography and Make-up) .....	3
Journalism 377 (Photojournalism) .....	3
Journalism 553 (Editorials) .....	3
Journalism 558 (Article Writing) .....	3
Journalism 559 (Book Reviewing) .....	3
Journalism 567 (Contemporary Newspapers) .....	3
*Journalism 577 (Public Relations) .....	5
Journalism 590 (Specialized Periodicals) .....	5

*Supplementary Major* of at least 30 hours, including Business Education 107, 303-304-305, and other related business administration courses. Electives to complete a total of 195-197 hours.

## JOURNALISM-HOME ECONOMICS SEQUENCE

Non-journalism courses required in all sequences

(core curriculum) ..... 85-87 or 90-92

Journalism courses required in all sequences (core curriculum),

plus Journalism 308, 351, and 558 ..... 51

Home Economics 115 (Meal Preparation and Serving) ..... 5

Home Economics 120 (Clothing Selection and Construction) ..... 5

Home Economics 325 (Grooming for Men and Women) ..... 5

Home Economics 293 (Family Relationships) ..... 5

Home Economics 343 (Household Equipment) ..... 5

Home Economics 370 (Food Selection and Buying) ..... 3

Home Economics 390 or 490 (Infant and Child Development) ..... 3

Electives, chosen with approval of Dean of School of

Journalism, to complete a total of ..... 195

*A minimum grade of C (73) is required in all major subjects. An average of C with not more than 45 hours of D grades must be obtained in order to be eligible for graduation. Any student who does not have a 73 or better average at the end of his sophomore year or whose performance on the Sophomore Comprehensive Examinations is unsatisfactory will be allowed to continued in the School of Journalism only with the approval of his sequence head and the Dean of the School of Journalism. All supplementary major subjects and electives shall be chosen with the approval of the sequence head and the Dean of the School of Journalism and are determined by the sequence in which the student is 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 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 cur-

riculum 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 minimum of 185 quarter hours (exclusive of physical education and/or military or air science). Ordinarily a student who is admitted to Law School after three years of academic work must have an above average academic record and a satisfactory score in the Law School Admission Test.

### MASTER OF ARTS

The Master of Arts 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 admission as a prospective candidate for this degree include an approved bachelor's degree 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.

### 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 COURSES

100. JOURNALISTIC PRODUCTION. 1 to 5 hours. Prerequisite: Journalism 101 or 350. *The Staff.*

Reportorial, editorial, and advertising work, with *Red and Black* and other campus and local publications and organizations, under faculty supervision.

101. INTRODUCTION TO JOURNALISM. *Mr. Drewry and Staff.*

A survey of the communications field, including writing therefor.

120. PRINCIPLES AND ETHICS OF JOURNALISM. *Mr. Drewry.*

A study of the fundamentals of journalism, including ethics, law, practices, and trends.

130. HISTORY OF JOURNALISM. *Mr. Kopp and Staff.*

The development of mass media of communications and their place in society, with special reference to the U. S. A.

140. PUBLIC OPINION AND JOURNALISM. *Mr. Kopp and Staff.*

The place of mass media in public opinion, with exercises in reporting and interpretation.

## JUNIOR AND SENIOR COURSES

200. JOURNALISTIC PRODUCTION. 1 to 5 hours. Prerequisite: Permission of the Dean of the School of Journalism. *Staff.*

A management conference course for those holding major elected position on the *Red and Black*.

300. JOURNALISTIC PRODUCTION (INTERNSHIP). 1 to 15 hours. Prerequisites: Basic courses in technique and permission of the Dean of the School of Journalism. *The Staff.*

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 by the circumstances in each case, but the maximum credit for Journalism 100, 200, and 300 is 15 hours.

308. ADVERTISING LAYOUT. *Mr. Dodd and Art Staff.* (Also offered as Art 308.)

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

310. SENIOR SEMINAR IN ADVERTISING AND PUBLIC RELATIONS. 1 hour. Prerequisite: Senior standing in School of Journalism. *Mr. Moore and Staff.*

Current literature and developments in communications with emphasis on advertising and public relations. Required of all Advertising-Public Relations majors.

350. BASIC COMMUNICATIONS TECHNIQUES. *Mr. Drewry and Staff.*

The senior division introductory course in journalism, including news values, reporting, and writing.

351. COPY READING AND EDITING. 3 hours. Prerequisite: Journalism 101 or 350. *Mr. Hynds and Mr. Kitchens.*

The basic course in editing for all types of publications, with special emphasis on newspaper and press service copy. Headline and caption writing.

352. MAKE-UP AND TYPOGRAPHY. 3 hours. Prerequisites: Journalism 101 or 350 and 351. *Mr. Hynds and Mr. Kraps.*

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.

360. ADVANCED REPORTING AND WRITING. Prerequisites: Journalism 101 or 350, 140 or 440. Also offered as Journalism 360 a-b-c, 2 hours for each part. *Mr. Kopp and Staff.*

Theory and practice in covering news of municipal, county, state, and federal organizations.

361. DRAMATIC CRITICISM. 3 hours. *Mr. Ballew and Staff.*

Theory and practice in reviewing stage productions, motion pictures, and concerts.

362. THE SHORT STORY. 3 hours. *The Staff.*

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.

368. CONTEMPORARY JOURNALISTIC PRACTICE. *Mr. Drewry and Staff.*

A survey of news and feature work for newspapers, radio-tv, and periodicals, for specialized groups, such as students in agriculture, home economics, county agents, etc. Special attention will be given to publicity and public relations.

377. PHOTOJOURNALISM (JOURNALISTIC PHOTOGRAPHY). 3 hours. *Mr. Abney and Mr. McDougald.*

A study of the photographic requirements of newspapers and magazines, use of photography in advertising and public relations, and the technique of news photography. Selection of photographs for publication, including editing, scaling to size, the engraving processes, and caption writing.

## JUNIOR-SENIOR OR GRADUATE COURSES

420. THE LITERATURE OF JOURNALISM. *Mr. Drewry.*

Ethics, practices, and trends, with emphasis on the literature of the entire communications field.

430. HISTORY OF JOURNALISM. *Mr. Kopp and Staff.*

An advanced course in the development of mass media of communications.



440. PUBLIC OPINION AND JOURNALISM. *Mr. Kopp and Staff.*

An advanced course in mass media and public opinion, with exercises in reporting and interpretation.

454. THE LAWS OF COMMUNICATIONS. *Mr. Kopp.*

A consideration of certain legal aspects of journalism (radio-television 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 American literature; and (2) those who plan to contribute to magazines, and therefore would know the markets.

467. CONTEMPORARY AMERICAN NEWSPAPERS. 3 hours. *Mr. Kopp.*

A study of outstanding present-day newspapers in the United States, including a consideration of their development, noted personalities on their staffs, and their characteristics and policies.

469. GEORGIA JOURNALISM. Prerequisite: Journalism 130 or 430, Political Science 101, and History 459. *The Staff.*

A study of the place of Georgia newspapers, periodicals, editors, and contributors in American history and in American journalism.

486. RADIO-TELEVISION—ORAL INTERPRETATION OF LITERATURE. Prerequisite: Speech 108 and/or permission of instructor. (Also offered as Speech 386). *Staff.*

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, with special reference to radio-tv.

487. RADIO-TELEVISION—DRAMATIC INTERPRETATION. Prerequisite: Speech 108 and/or permission of instructor. Also offered as Speech 387. *Staff.*

A study of the theory, techniques, and principles of interpretation of drama from the points of view of the oral interpreter and actor. Development of oral skills through the study of selected plays and monologues—with special reference to radio-tv.

537. PUBLIC RELATIONS (PUBLICITY). 3 hours. *Mr. Abney and Mr. Moore.*

A 3-hour version of Journalism 577. See Journalism 577 for description.

544, 545, 546. RADIO-TELEVISION ACTING, DIRECTING, AND PRODUCTION. Three separate 5 hour courses. Prerequisite: Two senior division courses in Speech, Drama, or Radio-Television. (Also offered as Speech 544, 545, 546). *Staff.*

Three advanced courses in radio-television acting and directing. Plays will be rehearsed in the Laboratory Theatre and radio-tv plays broadcast from the studios in the Commerce-Journalism Building. Elective courses open to students having the necessary prerequisites.

553. THE EDITORIAL. 3 hours. Prerequisite: Journalism 101 or 350. *Mr. Hynds and Mr. Drewry.*

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 practical analyses of representative editorial pages.

557. ADVERTISING AND PUBLIC RELATIONS. *Mr. Drewry.*

An introductory survey of advertising and public relations.

558. FEATURE WRITING AND SPECIAL ARTICLES. 3 hours. *Mr. Hynds and Mr. Drewry.*

Theory and practice in writing articles of a varied character for newspapers, magazines, syndicates, trade journals, and radio-television.

559. LITERARY APPRECIATION. (Book Reviewing). 3 hours. *Mr. Hynds and Mr. Drewry.*

A course in literary appreciation and evaluation with the emphasis on current books and the preparation of reviews for newspapers, magazines, radio-tv, and specialized publications.

563. ADVANCED FEATURE, FICTION, AND RADIO-TV WRITING. 3 hours. Prerequisite: A satisfactory grade in Journalism 362, 558, or 580. *The Staff.*

A continuation of production work begun in feature, fiction, or radio-tv writing, with emphasis on marketing, publication, or broadcasting.

564. NEWSPAPER MANAGEMENT. 3 hours. *Mr. Abney, Mr. Kopp and Mr. Moore.*

The business aspects of newspaper and periodical publication.

565. BROADCASTING MANAGEMENT. 3 hours. *Mr. McDougald.*

The business aspects of radio and television.

566. JOURNALISM IN THE SECONDARY SCHOOL. (Also offered as Education 566). *The Staff.*

A survey of news gathering, news writing, copy reading, typography, and business management, with specific relation to the high school newspaper and yearbook. Also school public relations.

574. ADVERTISING CAMPAIGNS. Prerequisites: Journalism 101 or 350 and 557, 575 and 576. *Mr. Moore and Staff.*

Planning and preparation of copy and layout for a complete national advertising campaign, with emphasis on media and copy research.

575. ADVERTISING COPY WRITING. Prerequisite: Journalism 101 or 350. *Mr. Moore and Staff.*

Principles and practices 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.

576. ADVERTISING MEDIA. Prerequisites: Journalism 101 or 350 and 557 or 575. *Mr. Moore.*

A study and evaluation of the principal advertising media, including newspapers, magazines, trade publications, radio-tv, outdoor, novelty, and cinema. The work of an advertising office or agency and the selling of space or time are considered.

577. PUBLIC RELATIONS (PUBLICITY) *Mr. Abney, Mr. Moore, and Staff.*  
A study of principles and techniques. Research in interpersonal and mass communications with emphasis on effectiveness studies among various publics.

578. RETAIL ADVERTISING. Prerequisite: Journalism 557 and 575. *Mr. Moore and Staff.*

Preparation of advertising for various types of retail advertisers and for the various media used by the retailer.

579. NEWSPAPER ADVERTISING. Prerequisites: Journalism 101 or 350 and 557. *Mr. Moore and Staff.*

Basic practices, techniques, and problems of weekly, small daily, and metropolitan newspaper advertising departments. Newspaper advertising, sales promotion preparation, planning, research, and legal ethical problems.

580. RADIO-TELEVISION IN JOURNALISM. *Mr. McDougald and Staff.*

Radio and television as phases of journalism.

581. RADIO-TELEVISION NEWS. Prerequisite: Journalism 101 or 350. or special permission. *Mr. McDougald and Staff.*

The processing of news for radio and television. Evaluation of stories, arrangements of 5 and 15 minute newscasts, news spots, and analysis of newscasts being presented over network and local stations.

582. RADIO-TELEVISION PROGRAMMING. 3 hours. Prerequisite: Journalism 580. *Mr. McDougald and Staff.*

A study of programming, with special emphasis on public service and the social aspects of radio and television. An examination of Peabody entries and winners.

583. Also offered as 583 a-b-c (2 hours for each part). RADIO-TELEVISION PERFORMANCE. Prerequisite: Journalism 101 and 580, 581, or 582 (one of last three). Class will be limited to ten carefully chosen students definitely interested in radio-television as a career. *Mr. McDougald and Staff.*

A laboratory course wherein the student gets actual experience, under faculty supervision, in various aspects of broadcasting and telecasting. On-the-job experience will be supplemented by seminars and regular conferences with instructors.

584. RADIO-TELEVISION ADVERTISING. Prerequisite: Journalism 101 or 350. *Mr. McDougald and Staff.*

Radio and television as advertising media. Preparation of scripts and various types of commercial programs.

585. TELEVISION. *Mr. McDougald and Staff.*

An introductory course concerned with the history, problems, and techniques of television. Theoretical instruction is supplemented by laboratory observation and work in nearby television stations.

586. CINEMATOGRAPHY. *Mr. McDougald and Staff.*

A study of basic motion picture production techniques, particularly as they relate to television. Use of motion picture production equipment, including cameras, editing, script writing, and critical analysis.

590. EMPLOYEE PUBLICATIONS AND SPECIALIZED PERIODICALS. Prerequisites: Journalism 101 or 350 and 456. *Mr. Moore.*

591. PUBLIC RELATIONS CASE STUDIES. 3 hours. Prerequisite: Journalism 577. *Mr. Moore and Staff.*

Case study approach to public relations.

592. PUBLIC RELATIONS MEDIA. 3 hours. Prerequisite: Journalism 577 or permission of the instructor. *Mr. Moore and Staff.*

Utilization of communications media with emphasis on interpretation of the business, industrial, educational, and associational story from the point of view of the public relations practitioner.

593. COMMUNICATIONS FOR SCHOOL ADMINISTRATORS. Prerequisite: Recommendation of Field Services Office of College of Education. *The Staff.*

A study of the communications media used by the public school.

594. PUBLIC RELATIONS FOR SCHOOL ADMINISTRATORS. Prerequisite: Recommendation of Field Services Office of College of Education. *The Staff*. A study of principles and techniques of educational public relations with emphasis on the needs of school administrators.

### GRADUATE COURSES

For all undergraduate journalism courses in the 400 and 500 series, listed in the preceding section, there are graduate courses under corresponding numbers in the 600-700 series. For example Journalism 456 is offered on the graduate level as Journalism 656. In addition to these 600-700 series courses, the following exclusively graduate courses are offered:

807-808. ADVERTISING-PUBLIC RELATIONS. 10 hours. *Mr. Drewry and Staff*.

Two advanced courses involving special projects in terms of students' interests and objectives.

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. Drewry and Staff*.

930. THESIS. 5 to 50 hours.

### HISTORY, NAME AND ACCREDITATION

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 Association for Education in 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.

### SPECIAL LECTURERS\*

RAYMONDE ALEXANDER, Fashion Editor, *Atlanta Constitution*.

HARRY ANDERSON, Director of Publications, Allstate Insurance Companies, Skokie, Illinois; President, International Council of Industrial Editors.

ARTHUR W. ANGRIST, Manager, Employee Information Department, Ford Motor Company, Detroit, Michigan.

BILLY E. BARNES, Chief, Southeastern News Bureau, McGraw-Hill Book Company, Atlanta.

WALTER G. BEACH, Supervisor of Publications, Humble Oil and Refining Company, Houston, Texas.

G. NORMAN BISHOP JR., News Staff, WSFA-TV, Montgomery, Alabama.

W. EDWARD BOUGHTON, Second Vice-President in Charge of Public Relations, John Hancock Mutual Life Insurance Company, Boston.

HENRY L. BOWEN, Vice-President, Georgia Power Company, Atlanta.

EDMUND C. BUNKER, President, Radio and Advertising Bureau, Inc., New York City.

CLIFFORD L. CAGLE, District Public Relations Manager, Southern Bell, Asheville, North Carolina.

CHARLES E. COLEMAN, Vice-President, Foote, Cone & Belding, Los Angeles.

RUBY H. CROWE, Special Studies Consultant, Fulton County School System, Atlanta.

J. MONTGOMERY CURTIS, Director, American Press Institute, Columbia University, New York City.

\*This is a partial list of those heard during the 1962-63 school year. A similar group is heard each session.

- MARY ANN CUSACK, Special Assistant to the President, National Association of Broadcasters, Washington, D. C.
- CURTIS H. DRISKELL, Managing Editor, *Atlanta Magazine*.
- WILLIAM H. FIELDS, Managing Editor, *Atlanta Constitution*.
- WALTER H. FROMMER, Employee Communications Manager, Olin Mathieson Chemical Corporation, New York City.
- JESS GORKIN, Editor, *Parade Magazine*, New York City.
- WARREN E. GRIEB, Executive Vice-President and General Manager, American Newspaper Representatives, Inc., New York City.
- R. E. HAMILTON, Executive Vice-President, Tufted Textile Manufacturers Association, Dalton, Georgia.
- OREN HARRIS, Congressman from Arkansas—Chairman, Interstate and Foreign Commerce Committee, U. S. House of Representatives.
- GEORGE W. HEAD, Manager of Advertising and Sales Promotion, National Cash Register Company, Dayton, Ohio.
- E. WILLIAM HENRY, Chairman, Federal Communications Commission, Washington, D. C.
- LEE HILLS, Vice-President and Executive Editor, *Detroit Free Press* and *Miami Herald*, and Executive Editor, Knight Newspapers, Inc.; President, American Society of Newspaper Editors.
- STEPHEN B. LABUNSKI, Vice-President and General Manager, WMAC, New York City.
- DICK MENDENHALL, Editorial Director, WSB, Atlanta.
- THRUSTON B. MORTON, U. S. Senator of Kentucky.
- PHIL NEWSOM, Foreign News Analyst, United Press International, New York City.
- CYRIL J. O'BRIEN, Director of Press Communications, Applied Physics Laboratory, Johns Hopkins University.
- B. W. PATTISHALL, President, International Trademark Association; Chairman, Patent, Trademark, and Copyright Section of the American Bar Association, Chicago.
- NATE POLOWETZKY, Assistant General News Editor, Associated Press, New York City.
- HOWARD K. SMITH, ABC-TV, Washington, D.C.
- STANFORD SMITH, General Manager, American Newspaper Publishers Association, New York City.
- W. KIRK SUTLIVE, Public Relations Director, Union Bag-Camp Corporation, Savannah.
- ROGER W. TURNER, Director of News and Public Affairs, WMCA, New York City.
- SANDER VANOCUR, NBC White House Correspondent, Washington, D. C.
- MAURIE WEBSTER, Vice-President and General Manager, CBS Radio Spot Sales, New York City.

# THE SCHOOL OF HOME ECONOMICS

MARY SPEIRS, A.B., M.A., Ph.D., *Dean*

## 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 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 home-making. The student who chooses to enter home economics for vocational preparation will find in this field an interesting choice of professional opportunities. Special programs are available to able students which permit concentration in both a major area of home economics and a related area of science.

Graduates of the School hold positions as teachers both in high schools and colleges, as home demonstration agents, hospital dietitians, nursery school teachers, and as workers in public utilities, merchandising, personnel, and public relations, agencies for child and community welfare and research.

The School of Home Economics also offers a wide variety of courses for men and women from other schools in the University who are interested in home and family education or 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 laboratories and classrooms for equipment, foods, nutrition, textiles, clothing, home nursing, and home furnishings, as well as research laboratories. The building also provides a student and faculty lounge and an auditorium for club groups and special programs. In close proximity to Dawson Hall are the residence halls for women, the Physical Education Building for Women, three home management houses, the nursery school, the infant center, the South Campus Library, and the cafeteria in Snelling Hall. The college dining halls are used as laboratories for institution management courses.

The three home management houses are modern and well-equipped. They serve as teaching laboratories for home management and also for home

furnishings. Each house has a resident director. Students living in small groups for a quarter's residence (required of most majors) have an opportunity to apply the sciences and arts of home economics to a family situation. The School of Home Economics in cooperation with the Department of Psychology maintains a nursery school as a laboratory for courses in child development. The Department of Psychology collaborates in teaching and psychological testing and also offers consultant service to parents. The nursery school is equipped to meet the needs of pre-school children. Immediately adjacent to the nursery school is the infant center laboratory.

### UNIVERSITY OF GEORGIA FAMILY COUNSELING SERVICE

ELIZABETH T. SHEERER, *Counselor*

The Family Development staff offers counseling services on pre-marital, family, and other personal problems. The main purpose of these services is to provide help for students, but a limited number of non-students may use this service. Those desiring services should apply directly to the counselor.

### STUDENT ORGANIZATIONS

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 fraternity on the campus is Phi Upsilon Omicron, in which membership is based on scholarship, extra-curricular activities, and professional attitude. A student-faculty committee is representative of student groups within the School and serves in an advisory capacity. Students are eligible for election to Phi Kappa Phi and many other honorary organizations.

### SCHOLARSHIPS AND AWARDS

Certain scholarships and awards are open only to home economics students. For data on additional scholarships and awards, see the General Information section of this Catalogue.

**THE BORDEN AWARD** is made to the home economics senior who received the highest average 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.

**DEAN'S AWARD IN HOME ECONOMICS.** Two annual awards of \$100 each for excellence in the sophomore and freshman years, respectively, and superior promise in Home Economics.

**THE DANFORTH FELLOWSHIP** provides a month's summer program for the home economics junior 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 to the home economics freshman girl outstanding both in scholarship and activities offers two weeks of camp at Miniwanca during the summer between the freshman and sophomore years.

**A KROGER SCHOLARSHIP** of \$250 is awarded to a freshman entering home economics. Apply by March 1 to the Dean.

**TWO SEARS-ROEBUCK SCHOLARSHIPS** of \$300 each are available each year to freshman home economics students. Apply by March 1 to the Dean.

A GEORGIA DIETETIC ASSOCIATION SCHOLARSHIP is available to a major in dietetics or institution management to help finance the internship year after graduation.

THE JAMES COFFEE HARRIS AWARD is given annually to a Junior for proficiency in Home Economics and English. This award is a bequest of the late Agnes Ellen Harris who was Dean of Home Economics at the University of Alabama.

### GRADUATE STUDY

The School of Home Economics offers graduate study in several phases of work leading to either the Master of Science degree or the Master of Home Economics degree. 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 students, but may be waived for transfer students entering the junior class with full standing.

**SPECIAL SCHOLARSHIP REQUIREMENTS.** In addition to the general University requirements relative to scholarship, the following requirements must be met by all students in home economics:

Any student, who does not have an average weighted grade of 73 or more at the end of the quarter in which 85 academic quarter hours of work have been completed, will not be entitled to continue in attendance in the School of Home Economics except by special permission of the Dean. Such permission will be granted only in exceptional cases; required will be satisfactory achievement in basic freshman and sophomore courses.

An average grade of at least "C" must be earned in all courses taken either in home economics or in the joint major area of concentration, before credit for the course will be given for graduation.

**SPECIAL EXAMINATIONS.** Placement tests in several areas of home economics are available. Students may be exempted from requirements for certain courses on the basis of their performance in these tests. Students showing a deficiency in mathematics or in reading ability may be required to take certain remedial non-credit courses.

**SPECIAL PROGRAMS.** Men and women students may take special programs designed to provide concentration in a single major area of home economics and in a related area of natural or social science. This type of program may be taken only by a student of proven academic ability and with permission of the Dean. The curriculum will be planned to meet the needs of each student, but must include at least 80 quarter hours of general education (humanities and sciences), 40 quarter hours in courses numbered 200 or above in the major area of home economics, and 40 quarter hours in specified related areas of science. These special programs are particularly suitable for students planning for graduate study in certain subject matter areas of home economics.

Junior and senior schedules may vary from 45 to 48 hours with approval of the major professor and Dean of the School.

### FRESHMAN AND SOPHOMORE REQUIREMENTS

	Hours
Art 120 .....	5
Art or Music elective .....	3-5

English 101 and 102, Composition .....	10
Literature .....	10
Science (Select from Item 2 below) .....	10-15
Social Science (Select from Item 3 below) .....	10-15
Home Economics 101, Orientation .....	1
Home Economics 115, Foods .....	5
Home Economics 120, Clothing .....	5
Home Economics 175, Home Furnishings .....	5
Home Economics 293, Family Relations .....	5
Home Economics 224, Textiles .....	5
Speech 108 .....	5
Physical Education .....	10

#### JUNIOR AND SENIOR CORE REQUIREMENTS

Science (Select from Item 2 below) .....	5-10
Social Science .....	5-10
Home Economics 306 or 350, Foods .....	5
Home Economics 343, Household Equipment .....	5
Home Economics 351 or 358, Nutrition .....	5
Home Economics 368 and 369, Home Management .....	6
Home Economics 390 or 490, Infant or Child Development .....	5

Note on Freshman and Sophomore requirements: Hours of science or social science vary with the major concentrations. Home Economics 224, Home Economics 343, and Home Economics 306 may be taken in either the sophomore or junior year. Home Economics and Art majors will take Art 120, 130, and 140 in sequence and will also take 10 hours of approved art electives in the sophomore year.

See major concentrations for total requirements of Junior and Senior years.

#### DETAIL OF TOTAL REQUIREMENTS

	Hours
1. English 101 and 102, Composition .....	10
Literature .....	10
Speech 108 .....	5
2. Science (minimum) .....	20

For all majors Chemistry 111 or 121 is required, and at least ten of the hours must be taken in one subject area: Chemistry, Physics, Mathematics, Zoology, Botany or Bacteriology.

Specified sciences needed for the various majors are as follows:

Major in Clothing and Textiles: Chemistry 111 or 121 and 261, and Mathematics 100

Major in Dietetics and Institution Management: Chemistry 111 and 112 or 121, and 122, 261, 451; Zoology 101; Bacteriology 350 (30 hours)

Major in Home Economics Education: Bacteriology 350; Chemistry 111 or 121 and 261; Zoology 101

Major in Foods: Chemistry 111 and 112 or 121 and 122, 261 and 451 or 351; Zoology 101; Physics 120, Bacteriology 395; Bacteriology 350 (30 hours)

Major in Family Development: Chemistry 111 or 121; Zoology 101

Major in Housing and Home Management: Physics 120 or Mathematics 100; Chemistry 111 or 121, 261



3. Social Science (minimum) .....	20
Select courses from at least two of the following: Anthropology, Economics, Geography, History, Philosophy, Political Science, Psychology, Sociology.	
Specific courses in social science required in certain curricula are as follows:	
Major in Clothing and Textiles: Economics 105 and 360, Psychology 101	
Major in Dietetics and Institution Management: Psychology 101 and 371 or 414; Sociology, Economics, or Psychology	
Major in Home Economics Education: Economics 105; Psychology 101	
Major in Foods: Psychology 101	
Major in Family Development: Psychology 101; Sociology 105	
Concentration in Family Living, total requirement 25 hours	
Concentration in Child Development, total requirement 20 hours	
Major in Housing and Home Management: Economics 105; Psychology 101; Sociology 105	
Major in Home Economics and Art: Psychology 101	
Major in Home Economics and Journalism: Economics 105; Psychology 101, 371	
4. Fine Arts .....	8-10
Art 120 and one course in Music, Art, Visual Arts, or Crafts are to be chosen.	
Major in Clothing and Textiles: Art 120 and two approved art courses (13-15 hours).	
Major in Home Economics and Art: Art 120, 130, and 140 in sequence (15 hours).	
5. Home Economics, Core Requirements .....	50-52
Course	Hours
101 Orientation .....	1
115 Foods .....	5
120 Clothing .....	5
175 Home Furnishings .....	5
224 Textiles .....	5
293 Family Relations .....	5
343 Household Equipment .....	5
306 or 350 Foods .....	5
351 or 358 Nutrition .....	5
368-9 Home Management .....	6
390 or 490 Infant or Child Development .....	5
6. Major Concentration and Free Electives .....	53-62
At least thirty hours should be selected to meet requirements of the major concentration.	
7. 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 in artistic and intelligent selection and care of clothing and household fabrics. It gives preliminary training leading to positions such as specialist or designer in clothing or textiles, fabrics or fashion coordinator, consumer consultant, retail buyer, writer for trade publications, college teacher, or research worker.

#### JUNIOR AND SENIOR REQUIREMENTS

	Hours
CLOTHING AND TEXTILES .....	33
Home Economics 223 Family Clothing .....	3
Home Economics 321 Advanced Clothing .....	5
Home Economics 360 Advanced Textiles .....	5
Home Economics 561 Clothing and Textiles Economics .....	5
Three courses selected from the following: .....	15
Home Economics 363 Costume Design	
Home Economics 463 Historic Costume	
Home Economics 562 Tailoring	
Home Economics 564 Design and Draping	
FAMILY DEVELOPMENT .....	5
Home Economics 390 or 490 Infant or Child Development .....	5
FOOD AND NUTRITION .....	10
Home Economics 306 Foods .....	5
Home Economics 351 Nutrition .....	5
HOUSING AND HOME MANAGEMENT .....	11
Home Economics 343 Household Equipment .....	5
Home Economics 368-9 Home Management .....	6
BUSINESS ADMINISTRATION .....	10
Economics 360 Marketing .....	5
Electives .....	5
Arts and Sciences (See Total Requirements) .....	8-10
Electives .....	16-18
	95-97

Suggested Electives: Home Economics 357 or 370, 364, 376, 475; Art 130, 308, 317; Business Administration 560, 562, or 563; Economics 465; Chemistry 112 or 122, 223; Journalism 368; Physics 120; Sociology 105.

### MAJOR IN DIETETICS AND INSTITUTION MANAGEMENT

This major meets the requirements of the American Dietetic Association for admission to all types of approved dietetic internships and for membership. It prepares the student for administrative and therapeutic dietetics as well as for the teaching of dietetics and for the graduate year in hospital dietetics. Students are also prepared for lunch room, tea room, or college dining hall management if electives are selected properly.

## JUNIOR AND SENIOR REQUIREMENTS

	Hours
<b>FOOD AND NUTRITION</b> .....	30
Home Economics 306 Foods .....	5
Home Economics 351 Nutrition .....	5
Home Economics 354 Quantity Cookery .....	5
Home Economics 452 or 353 Advanced Nutrition .....	5
Home Economics 453 Nutrition in Disease .....	5
Home Economics 550 or 554 Experimental Foods .....	5
<b>INSTITUTION MANAGEMENT</b> .....	10
Home Economics 372 Management .....	5
Home Economics 374 Food Purchasing .....	5
<b>CLOTHING AND TEXTILES</b> .....	5
Home Economics 224 Textiles .....	5
<b>FAMILY DEVELOPMENT</b> .....	5
Home Economics 390 or 490 Infant or Child Development .....	5
<b>HOUSING AND HOME MANAGEMENT</b> .....	6
Home Economics 368-9 Home Management .....	6
<b>BACTERIOLOGY 350</b> .....	5
<b>PSYCHOLOGY</b>	
Psychology 371 or 414 Applied Psychology or Psychology of Personnel .....	5
<b>CHEMISTRY 451 or 351 Physiological Chemistry or Biochemistry</b>	5
<b>EDUCATION 304 or 455 Educational Psychology</b> .....	5
<b>Business Administration 110 Accounting</b> .....	5
<b>Arts and Sciences (See Total Requirements)</b> .....	5
<b>Electives</b> .....	8-10
	<hr/>
	<b>89-91</b>

Suggested electives: Home Economics 355, 357, 546, 550 or 554, 572; Journalism 368.

## 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.

Students who have not taken home economics courses within six years prior to the date of registration for completion of requirements for a degree in this major or for professional certification must take at least 20 hours of course work in home economics.

## JUNIOR AND SENIOR REQUIREMENTS

	Hours
<b>CLOTHING AND TEXTILES</b> .....	5
Home Economics 321 Advanced Clothing .....	5
<b>FAMILY DEVELOPMENT</b> .....	10
Home Economics 390 Infant Development .....	5
Home Economics 490 Child Development .....	5

FOOD AND NUTRITION .....	13
Home Economics 306 Foods .....	5
Home Economics 351 Nutrition .....	5
Home Economics 357 Food Demonstration .....	3
HOUSING AND HOME MANAGEMENT .....	14
Home Economics 364 Family Economics .....	5
Home Economics 368-9 Home Management .....	6
Home Economics 376 Housing or .....	3
Home Economics 377 Practical Furnishings .....	3
EDUCATION .....	31
Education 103a Introduction .....	1
Education 455 Adolescent Psychology .....	5
Education 335.2 Home Economics Curriculum Planning .....	5
Education 336.2 Home Economics Teaching Procedures .....	5
Education 346-7-8.2 Home Economics Apprentice Teaching .....	15
Arts and Sciences (See Total Requirements) .....	10
Electives .....	6-8

89-91

Prerequisites for Education 335.2 and 336.2 are as follows: Home Economics 224, 293, 306, 343, 390, or 490; and over-all average grade of 75 or above; evidence of fitness for teaching.

Suggested Electives: Home Economics 355, 370, 461; Art 513; Food Technology 409; Horticulture 311; Journalism 368, 537; Landscape Architecture 313; Psychology 258; Physical Education 118, 385, 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
FOOD AND NUTRITION .....	28
Home Economics 306 Foods .....	5
Home Economics 351 Nutrition .....	5
Home Economics 357 Food Demonstration .....	3
Home Economics 452 or 353 Advanced Nutrition .....	5
Home Economics 550 Experimental Foods .....	5
Home Economics 554 Experimental Foods .....	5
FAMILY DEVELOPMENT .....	5
Home Economics 390 or 490 Infant or Child Development .....	5
HOUSING AND HOME MANAGEMENT .....	11
Home Economics 368-9 Home Management .....	6
Home Economics 546 Equipment Testing or .....	
Home Economics 547 Lighting and Refrigeration .....	5
BACTERIOLOGY 350 .....	5

EDUCATION Elective .....	5
CHEMISTRY 451 or 351 Physiological Chemistry or Biochemistry	5
Arts and Sciences (See Total Requirements) .....	10
Electives .....	20-22

89-91

Suggested Electives: Art 308; Food Technology 409; Education 304 or 455; Journalism 368; Bacteriology 395, 389; Physics 120; Psychology 414, 371; Mathematics 200 or Agronomy 423; Home Economics 354, 355, 374 or 370.

Requirements for membership in the American Dietetic Association may be met through proper choice of electives.

## MAJOR IN FAMILY DEVELOPMENT

### CONCENTRATION IN FAMILY LIVING

Preparation for work with agencies dealing with family adjustment, child serving agencies, or positions requiring professional work in family life as a focus. Students interested in research or college teaching in this area will be prepared for advanced study with this major.

### JUNIOR AND SENIOR REQUIREMENTS

	Hours
FAMILY DEVELOPMENT .....	25
Home Economics 490 Child Development .....	5
Home Economics (Sociology) 461 The Family .....	5
Home Economics 493 Family in the Community .....	5
Home Economics 495 Contemporary Family .....	5
Home Economics 496 Parent Education .....	5
APPROVED ELECTIVES in Family Development, Sociology or Psychology .....	10

### CONCENTRATION IN CHILD DEVELOPMENT

Preparation for work with young children through public and private nursery schools, child-serving agencies, and children's clinics and hospitals. Students interested in research or college teaching in this area will be prepared for advanced study with this major.

### JUNIOR AND SENIOR REQUIREMENTS

	Hours
FAMILY DEVELOPMENT .....	35
Home Economics 490 Child Development .....	5
Home Economics 492 Child Guidance .....	5
Home Economics 496 Parent Education .....	5
Home Economics 591 Pre-School Activities .....	5
Home Economics 311-12b Nursery School Practicum .....	10
Home Economics 594 Nursery School Problems .....	5

### OTHER JUNIOR AND SENIOR REQUIREMENTS

FOOD AND NUTRITION .....	10
Home Economics 306 or 350 Foods .....	5
Home Economics 351 or 358 Nutrition .....	5

HOUSING AND HOME MANAGEMENT .....	6
Home Economics 368-9 Home Management .....	6
HOME ECONOMICS Elective .....	5
Arts and Sciences (See Total Requirements) .....	15-20
<b>Electives</b> .....	18-20
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	89-91

Home Economics 224, 343, and 390 are required; if possible, they should be taken in the sophomore year.

### 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
CLOTHING AND TEXTILES .....	10
Home Economics 224 Textiles .....	5
Home Economics 321 Advanced Clothing .....	5
FAMILY DEVELOPMENT .....	10
Home Economics 390 Infant Development .....	5
Home Economics 490 Child Development .....	5
FOOD AND NUTRITION .....	15
Home Economics 306 or 350 Foods .....	5
Home Economics 351 or 358 Nutrition .....	5
Foods Elective .....	5
HOUSING AND HOME MANAGEMENT .....	6
Home Economics 368-9 Home Management .....	6
HOME ECONOMICS Electives .....	10
Arts and Sciences (See Total Requirements) .....	10
Electives .....	28-30
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	89-91

General majors must select at least 15 elective hours in one field over and above specified courses.

### MAJOR IN HOME ECONOMICS AND ART

The major in Home Economics and Art is offered jointly by the School of Home Economics and the Department of Art. It is designed to provide an opportunity for specialization in Interior Design, Crafts, Ceramics, Drawing and Painting, or Commercial Art.

#### JUNIOR AND SENIOR REQUIREMENTS

	Hours
CLOTHING AND TEXTILES .....	10
Home Economics 224 Textiles .....	5
Home Economics 321 Advanced Clothing .....	5

FAMILY DEVELOPMENT .....	5
Home Economics 390 or 490 Infant or Child Development .....	5
FOOD AND NUTRITION .....	10
Home Economics 306 or 350 Foods .....	5
Home Economics 351 or 358 Nutrition .....	5
HOUSING AND HOME MANAGEMENT .....	17-19
Home Economics 343 Household Equipment .....	5
Home Economics 368-9 Home Management .....	6
Home Economics 376 or 480 Housing .....	3-5
Home Economics 377 Practical Furnishings .....	3
HOME ECONOMICS Electives .....	10
ART Electives .....	10-15
Arts and Sciences (See Total Requirements) .....	15
Electives .....	5-12
	89

Art 120, 130, and 140 and 10 other hours of Art electives are also required in the freshman and sophomore program.

The art electives may be selected with approval of adviser from the areas of Interior Design, Crafts, Ceramics, Drawing and Painting, or Commercial Design.

#### MAJOR IN HOME ECONOMICS JOURNALISM

The major in Home Economics Journalism is offered jointly by the School of Home Economics and the School of Journalism. It is designed to prepare students for journalistic work related to home economics with newspapers, magazines, radio, television or other areas of the communications field.

#### JUNIOR AND SENIOR REQUIREMENTS

	Hours
FAMILY DEVELOPMENT .....	5
Home Economics 390 or 490 Infant or Child Development .....	5
FOOD AND NUTRITION .....	10
Home Economics 306 or 350 Foods .....	5
Home Economics 351 or 358 Nutrition .....	5
HOUSING AND HOME MANAGEMENT .....	11
Home Economics 343 Household Equipment .....	5
Home Economics 368-9 Home Management .....	6
HOME ECONOMICS Electives .....	15
PSYCHOLOGY 371 .....	5
JOURNALISM 558 .....	3
JOURNALISM Electives .....	25
Arts and Sciences (See Total Requirements) .....	5
Electives .....	10-12
	89-91

Required are Home Economics 224 and Journalism 368; if possible, they should be taken in the sophomore year.

Home Economics Electives. Select 15 hours from one of these groups: (1) 355, 357, 377; (2) 321, 363, 561; (3) 364, 490, 493, 495, 496.

Journalism Electives. Select at least 10 hours in one of three areas listed below; then expand in one area or combine two areas.

Magazine Writing: Journalism 456 and 590, 377, 351, 537.

Radio-Television: Journalism 580 and 585, 386, 583, 584.

Advertising and Public Relations: Journalism 557 and 577, 576, 575, 578;

Marketing 562, 563, 564.

### HOME DEMONSTRATION

The degree of Bachelor of Science in Home Economics is required for extension home demonstration work. Students preparing for employment in Agricultural Extension Service should take Agricultural Extension 313 and 314.

Suggested electives: Food Technology 409; Landscape Architecture 313; Journalism 368 and 580; Home Economics 355, 364, 370, 377, 475, and 546.

### MAJOR IN HOUSING AND MANAGEMENT

This major provides training for careers in home service, management of multiple-unit or public housing projects, and assistance to architects, decorators, and household appliance companies.

#### JUNIOR AND SENIOR REQUIREMENTS

	Hours
HOUSING AND HOME MANAGEMENT .....	22
Home Economics 364 Family Economics .....	5
Home Economics 368-9 Home Management .....	6
Home Economics 376 Housing .....	3
Home Economics 377 Practical Furnishings .....	3
Home Economics 480 Housing Developments .....	5
Select from the following: .....	10-20
Home Economics 546 Equipment Testing .....	5
Home Economics 547 Lighting and Refrigeration .....	5
Home Economics 475 Advanced Furnishings .....	5
Home Economics 570 Consumer Problems .....	5
CLOTHING AND TEXTILES .....	5
Home Economics 321 Advanced Clothing .....	5
FAMILY DEVELOPMENT .....	5
Home Economics 390 or 490 Infant or Child Development .....	5
FOOD AND NUTRITION .....	10
Home Economics 306 Foods .....	5
Home Economics 351 Nutrition .....	5
Arts and Sciences (See Total Requirements) .....	10
Electives .....	17-29
	89-91

Electives must be approved by major professor and should be scheduled after requirements of this major have been satisfied. Suggested electives: Agricultural Engineering 104-105; Art 216, 237, 351, 387, 389; Journalism 376; Landscape Architecture 255, 313; Sociology 409, 431; Physics 127, 128; Home Economics 564.



## 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.

101. HOME ECONOMICS ORIENTATION. 1 hour. *The Staff.*

A course offered for entering freshmen to help them in personal development, analysis of interests and aptitudes, and vocational planning.

## CLOTHING AND TEXTILES

120. CLOTHING SELECTION AND CONSTRUCTION. Two lectures and three double laboratory periods. (Open to non-majors). *Miss Luffman* and *Mrs. Willett.*

Application of basic principles to selection of commercial patterns, fabrics, and ready-to-wear; fundamental techniques in garment construction; grooming and care of clothes.

223. CLOTHING FOR THE FAMILY. 3 hours. Two lectures and one double laboratory period. Prerequisite: Home Economics 120 and 224. Open to non-majors, prerequisites waived. *Staff.*

Physiological, psychological, artistic, social, and economic aspects of clothing as related to clothing needs of family members at various stages of the family cycle.

224. ELEMENTARY TEXTILES. Two lectures and three double laboratory periods. Prerequisite: Chemistry 111 or 121. (Open to non-majors). *Miss Armstrong, Miss Luffman* and *Mrs. Willett.*

Textile fibers, yarns and fabrics, their source, production, manufacture, properties and identification; selection, use and care of modern textiles; special problems; field trips.

321. ADVANCED CLOTHING SELECTION AND CONSTRUCTION. Two lectures and three double laboratory periods. Prerequisites: Home Economics 120, 224 or equivalent, and Art 120. *Miss Armstrong, Miss Johnson, Miss Luffman* and *Mrs. Willett.*

Advanced dressmaking techniques in handling wool and other types of textile fabrics; clothing based on aesthetic, physical and psychological factors; study of the fashion industry.

325. CLOTHING SELECTION AND GROOMING FOR MEN AND WOMEN. 3 hours. For non-majors (men and women) or home economics majors whose curriculum does not require Home Economics 321. *Miss Armstrong, Miss Johnson* and *Miss Luffman.*

Selection of appropriate and becoming clothing for men and women with emphasis on individual problems; aesthetic, socio-economic, physical, and psychological factors related to clothing and grooming; care of clothing.

360. ADVANCED TEXTILES. Two lectures and two three-hour laboratory periods. Prerequisites: Home Economics 224 and Chemistry 261 or equivalent. *Miss Armstrong.*

Advanced study of textiles with emphasis on the newer processes, fibers and finishes; analysis of fibers and fabrics; term problem; field trips.

363. COSTUME DESIGN. Two lectures and three double laboratory periods. Prerequisite: Home Economics 321. With approval of the instructor, may be elected by students majoring in fields other than Home Economics. *Miss Johnson* and *Miss Luffman.*

Developing originality and creative ability in designing clothing with consideration of personality, figure type, age and occasion; historic and current fashion influences.

463. HISTORIC COSTUME. Prerequisite: Home Economics 321. With consent of the instructor, may be elected by students of advanced standing who are non-majors. *Miss Johnson.*

A study of historic costume from ancient times to the present; socio-economic, political and religious influences on dress.

561. **CLOTHING AND TEXTILE ECONOMICS.** Prerequisites: Home Economics 224 or equivalent and 321; Economics 360; or by consent of instructor. *Miss Armstrong.*

Organization, functions and interrelations of the various industries concerned with production and distribution of textiles and clothing; consumption of clothing and household textiles; special problems; field trips.

562. **TAILORING.** Two lectures and three double laboratory periods. Prerequisites: Home Economics 224 or equivalent and 321. *Miss Armstrong, Miss Johnson and Mrs. Willett.*

Planning and making a tailored ensemble; techniques employed in custom made garments.

563. **ILLUSTRATIVE MATERIALS IN CLOTHING AND TEXTILES.** Two lectures and three double laboratory periods. Prerequisites: Home Economics 321 or equivalent and one other approved senior division course in Clothing and Textiles or consent of instructor. *Miss Armstrong, Miss Johnson and Miss Luffman.*

Preparation of illustrative materials on problems related to selection, construction, and care of clothing and textiles. Designed for teachers, home demonstration agents, and other specialized groups.

564. **PATTERN DESIGN AND DRAPING.** Two lectures and three double laboratory periods. Prerequisite: Home Economics 321 and 562 or consent of instructor. *Miss Armstrong and Miss Johnson.*

Making and using a master pattern in designing garments; designing through draping; emphasis on artistic effects in color, line and texture; application of art principles.

865. **CLOTHING AND TEXTILES PROBLEMS.** Two lectures, laboratories arranged. Prerequisites: Home Economics 321 and one other approved senior division course, or consent of instructor. *Miss Armstrong.*

New developments in textile products; new techniques in clothing construction; trends in clothing selection. Individual problems based on students' professional needs.

867. **CLOTHING AND TEXTILE RESEARCH METHODS.** One conference and four library or laboratory periods. Prerequisites: Two approved graduate courses in Clothing and Textiles or consent of the instructor. *Miss Armstrong.*

The philosophy of research applicable to clothing and textile studies; methodology; interpretation of research literature; planning and developing projects.

## FAMILY DEVELOPMENT

293. (SOCIOLOGY) **FAMILY RELATIONS.** *Mr. King, Mr. Rapp and Miss Sheerer.*

Designed to assist students in preparation for marriage and family living. Personal development and family living, planning for marriage, achieving a happy marriage.

311b and 312b. **NURSERY SCHOOL PRACTICUM.** 10 hours. Prerequisite: Home Economics 490 and 591. *Miss McPhaul, Mrs. Allison, Miss Brooke and Staff.*

Nursery School teaching experience is provided in the Nursery School.

390. **PRENATAL AND INFANT DEVELOPMENT.** Four lectures and two periods of supervised observation in the Infant Center. *Miss LaBoon, and Mrs. Allison.*

A study of the adjustment of the young family through pregnancy and childbirth. Special emphasis is given to the physical, mental, emotional, and social development of the child up to two years of age.

397. **CREATIVE MATERIALS AND ACTIVITIES IN THE HOME.** Prerequisite: Art 120. *Miss LaBoon.*

Functions of creative materials and activities in the home in developing a closer family unity; types of creative activities which can be carried on in the average home with minimum of special materials, equipment, and expenditure.

461. **THE FAMILY, (See Sociology).**

490. (PSYCHOLOGY) **DEVELOPMENT OF THE YOUNG CHILD.** Three lectures and four periods of supervised observation in the Nursery School. Prerequisite: Psychology 101. *Mrs. Allison, Miss McPhaul, Mr. Rapp, Miss Young, and 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.

492. **CHILD GUIDANCE.** Three lectures, three periods of supervised observation in the Nursery School and one period of laboratory discussion. Prerequisite: Home Economics 490 or equivalent. *Miss Brooke, Miss Sheerer, Mr. Rapp and Nursery School Staff.*

The guidance of young children as based upon a knowledge of their maturation in the pre-school years. Principles, techniques and facilities for guidance of young children.

493. **THE FAMILY IN THE COMMUNITY.** Prerequisite: Consent of the instructor. *Mr. King.*

Factors affecting family life, including national, state, and local legislation and services, mass media of communication, and programs in churches, schools, and communities.

495. **CONTEMPORARY FAMILY LIFE.** Prerequisite: Work in child development, or family relations, Sociology 105 or 461. *Mr. King.*

A study of the changing American family and of the inter-personal relationships of family members at each stage in the family life cycle.

496. **(EDUCATION) PARENT EDUCATION.** Prerequisite: Home Economics 490 or consent of instructor. *Mr. Rapp.*

Working philosophy for parent education; skills in procedure and techniques for working with parents. Opportunity for observation and participation with parent groups, parent conferences, and home visitations.

591. **CREATIVE ACTIVITIES FOR THE PRE-SCHOOL CHILD.** Prerequisite: Home Economics 490 and one additional related senior division course. *Mrs. Allison, Miss Brooke, Miss McPhaul and Nursery School Staff.*

Course covers selected types of creative activities for children of the pre-school years, including literature, art, music, nature study and other materials for young children. Practical experience with these in Nursery School.

594. **NURSERY SCHOOL LABORATORY PROBLEMS.** Four lectures and two periods of supervised practice in the Nursery School. Prerequisite: Home Economics (Psychology) 490 and one additional related senior college course. *Miss Brooke, Miss McPhaul and Nursery School Staff.*

Instruction and observation in the basic principles of group management of children from two through five years; guidance in selection of equipment and play materials; administration and organization of a nursery school; visitation of pre-school centers.

890. **RESEARCH IN FAMILY OR CHILD DEVELOPMENT.** Prerequisite: Home Economics 490 and one additional approved senior division course. *Mr. King, Mr. Rapp and Miss Young.*

Techniques of research; critical evaluation of research studies; planning and developing projects; and research writing in the fields of family and child development.

892. **(PSYCHOLOGY) BEHAVIOR PROBLEMS IN CHILDREN.** Prerequisite: Home Economics 490 or Education 452. *Miss Sheerer and Miss Young.*

The child's adjustment to his environment with a consideration of the causes, treatment, and prevention of behavior problems. Utilization of case materials. Research problems in the field will be carried out by the students.

893. **FAMILY COUNSELING.** Four lectures and two periods of supervised counseling practicum. Prerequisite: Courses in family life, child development, or psychology, and consent of the instructor. *Miss Sheerer.*

A study of major areas of adjustment in marriage and family relationships, problems of adjustment, and philosophy and techniques for family counseling.

894. **SEMINAR IN CHILD AND FAMILY DEVELOPMENT.** Prerequisite: Home Economics 490 or equivalent. *Mr. King.*

Survey of current literature on selected topics in Family and Child Development; discussion of current trends in the field; reports and discussion on selected topics; use of resource materials in the field.

998-999. **INTERNSHIP IN NURSERY SCHOOL ADMINISTRATION.** Prerequisite: Home Economics 490, 492, 591. *Miss McPhaul, Miss Brooke and Nursery School Staff.*

Instruction, observation, and directed experience in the various phases of nursery school administration, including program, parent relations, physical plant, equipment, supplies, and finance.

## FOOD AND NUTRITION

115. **FAMILY MEAL PREPARATION AND SERVING.** Three lectures and two two-hour laboratory periods. *Miss Moore and Mrs. Whitehead.*

Introductory course in foods and nutrition. Relates nutritional needs of family members to the planning, preparation, and service of meals.

304. **NUTRITION EDUCATION FOR TEACHERS.** 3 hours. 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 teachers can enrich school and community programs and improve the health of school children through nutrition education.

306. **FOODS.** Three lectures and two laboratory periods. Prerequisite: Home Economics 115, and Chemistry 261. *Miss Moore.*

Principles of cookery through analysis of basic recipes; the application of principles in preparation of commonly used foods; evaluation of products; some experimentation. Practical examination required.

350. **ADVANCED MEAL PLANNING AND SERVING.** Three lectures and two double laboratory periods. Prerequisite: Home Economics 115. *Miss Moore and Mrs. Whitehead.*

Basic information on food selection, buying, and preparation of family meals. Principles of cookery, cost comparisons and meal service are included.

351. **FOUNDATIONS OF NUTRITION.** Two lectures and three double laboratory periods. Prerequisite: Zoology 101, Chemistry 261 and Home Economics 306. *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.** One lecture and four double laboratory periods. Prerequisite: Home Economics 306. *Mrs. Whitehead.*

A study of cookery methods applicable to the preparation of foods for institutional or quantity service. Provides for use of institutional equipment, determination of food costs, experience in large cafeteria, and the planning and serving of meals.

355. **CATERING.** Informal laboratory, equivalent to two lectures and three double laboratory periods. Prerequisite: Home Economics 350, 306, or consent of instructor. *Mrs. Whitehead.*

The planning, preparing, and serving of teas, luncheons, dinners and banquets to large groups. Includes entertaining in the home.

357. **FOOD DEMONSTRATION.** 3 hours. Three double laboratory periods. Prerequisite: Home Economics 306 or 350. *Miss Moore.*

A continuation of Foods 306 or 350. Taught by student demonstrations which illustrate principles of cookery. Major emphasis is on demonstration techniques.

358. **INDIVIDUAL AND FAMILY NUTRITION.** Three lectures and two laboratory periods. Prerequisite: Home Economics 115. *Miss Newton.*

A study of nutrition needs of the family and its individuals. Includes a study of food cost in relation to nutritive value. Open to all students.

370. **FOOD SELECTION AND BUYING.** 3 hours. *Miss Moore.*

A study of sources, standards and grades, comparative values, and storage of foods for home use.

452. **ADVANCED NUTRITION.** Three lectures and two double laboratory periods. Prerequisite: Home Economics 351 and Chemistry 451 or equivalents. *Miss Newton and Mr. Caster.*

Digestion and metabolism as related to nutritional status; study and evaluation of low-cost diets. Methods in vitamin assay, blood chemistry and urinalysis.

453. **NUTRITION IN DISEASE.** Prerequisite: Home Economics 353 or 452. *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.

455. **NUTRITION IN INFANCY AND CHILDHOOD.** Prerequisite: Home Economics 350 and 358 or equivalents. *Miss Newton and Mr. Caster.*

Fundamental principles of nutrition during infancy and early childhood. Laboratory work in infant laboratory and nursery school.

458. **READINGS IN NUTRITION.** Prerequisite: Home Economics 351 and consent of instructor. *Miss Newton and Mr. Caster.*

Recent developments and the present status of knowledge on selected topics from the field of nutrition. The course is designed specially for those who wish to bring their knowledge of nutrition up to date.

550. **INTRODUCTION TO EXPERIMENTAL FOODS.** Two lectures and two three-hour laboratory periods. Prerequisite: Home Economics 306, 351 or consent of instructor. *Mrs. Hood and Miss Moore.*

Study of physical and chemical properties and changes in foods that influence the quality of foods and food products. Experimental methods used on preparation of gels, jellies, egg products, fruits and vegetables and cereal products.

554. **EXPERIMENTAL FOODS.** Two lectures and two three-hour laboratory periods. Prerequisite: Home Economics 306, 351 or consent of instructor.

*Mrs. Hood and Miss Moore.*

Influence of physical and chemical characteristics of meats, batters, doughs and fats on the quality of prepared products.

850. **SEMINAR IN FOODS AND NUTRITION.** Prerequisite: One graduate course in foods or nutrition and consent of instructor. *Mrs. Hood and Mr. Caster.*

Survey of current literature on selected topics in food and nutrition. Organized to use classic studies as background material for each topic.

854. **SPECIAL TOPICS IN FOODS AND NUTRITION.** Prerequisite: One graduate course in foods or nutrition and consent of instructor. *Mrs. Hood and Mr. Caster.*

Individual investigation of problems related to foods and nutrition. Designed to develop initiative in the student in seeking information in a field of special interest.

857. **INTRODUCTION TO RESEARCH IN FOODS AND NUTRITION.** Prerequisite: One graduate course in foods or nutrition or consent of instructor. *Mrs. Hood and Mr. Caster.*

Individual investigation of selected problems in the major field.

858. **RESEARCH IN FOODS AND NUTRITION.** Prerequisite: Home Economics 857 or equivalent. *Mrs. Hood and Mr. Caster.*

The planning and conducting of an individual research problem under supervision.

### INSTITUTION MANAGEMENT

372. **INSTITUTION MANAGEMENT.** Prerequisite: Home Economics 343. *Mrs. Whitehead.*

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 material and equipment; planning and placing equipment in food units.

374. **INSTITUTION FOOD PURCHASING.** *Mrs. Whitehead.*

A study of storage, net yields, specifications, grading, cost control and distribution of food and food products.

572. **ADVANCED INSTITUTION MANAGEMENT PRACTICE.** Two conferences and two three-hour laboratory periods. Prerequisite: Home Economics 372, 354, and 374. *Mrs. Whitehead.*

Principles of management and analysis of practices observed in management and operation of institutional food services.

### HOUSING AND HOME MANAGEMENT

175. **HOME DECORATING AND FURNISHING.** Prerequisite: Art 120. *Miss Clendening and Miss Tuten.*

A basic course in furnishing the home for contemporary living. Students have opportunity to apply design principles in planning furnishings for homes.

343. **SELECTION, USE AND CARE OF HOUSEHOLD EQUIPMENT.** Prerequisite: Home Economics 115, 175, 224. Two lectures and three double laboratory periods. *Mrs. Edwards.*

A study of household equipment in relation to principles of operation. Basic information about utilities, kitchen and laundry planning and home lighting.

344. **HOME NURSING.** 3 hours. Two lectures and one laboratory period. *The Staff.*

The principles and techniques for home care of the sick.

364. **PRINCIPLES OF FAMILY ECONOMICS.** Prerequisite: Economics 105. *Miss Jenkins and Miss Mize.*

Changes in economic requirements during the family life cycle; forces affecting the economic welfare of families in this country; management of family financial resources; relationships between level of family living and the national economy.

368. **HOME MANAGEMENT.** 3 hours. Three lectures. Prerequisite: Home Economics 343, 306 or 350, 351 or 358. *Miss Jenkins and Staff.*

A study of the management of family resources, time, money and effort as they affect family living. The course parallels 369 but may be taken separately by non-majors.

369. HOME MANAGEMENT RESIDENCE. 3 hours. Informal laboratory. Prerequisites: Home Economics 306 or 350, 351 or 358, 343. *Miss Jenkins, Miss Tuten and Staff.*

A practical application of the principles involved in 368. The informal laboratory, living in a home management house, provides opportunity for students to experiment with all phases of homemaking.

376. HOUSING. 3 hours. Two lectures and one double laboratory period. Prerequisite: Home Economics 175, 343, or consent of the instructor. *Mrs. Edwards.*

Present-day family housing needs from the standpoint of health, safety, environment, finance, ownership; types of dwellings; minimum standards.

377. PRACTICAL HOME FURNISHINGS. 3 hours. One lecture and two double laboratory periods. Prerequisite: Home Economics 175. *Miss Clendenning and Staff.*

A course dealing with the refinishing of furniture and construction of furnishings for the home; a study of woods and wood finishes used for furniture; upholstery techniques; making curtains, draperies, slipcovers.

475. HOME DECORATING AND FURNISHING. Three lectures and two double laboratory periods. Prerequisite: Home Economics 175, 376, or 480 or equivalent; Art 216; or consent of instructor. *Miss Clendenning.*

A study of decoration and furnishing in the past and present with applications to contemporary interiors.

480. HOUSING DEVELOPMENTS. Prerequisite: Home Economics 175, 343 and a senior division course in social sciences or consent of the instructor. *Mrs. Edwards and Miss Mize.*

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.

546. HOUSEHOLD EQUIPMENT TESTING. Prerequisite: Physics 120 and Home Economics 343. *Miss Mize.*

The operation, care and installation requirements of equipment; the measurement and testing of factors governing the efficiency of different types of equipment.

547. HOME LIGHTING AND REFRIGERATION. Prerequisite: Home Economics 343. *Miss Mize.*

Application to home situations of recent developments in lighting and in refrigeration principles.

570. CONSUMER PROBLEMS. Prerequisite: Home Economics 368-369. *Miss Mize and Mrs. Bailey.*

Problems of the household buyer; intelligent selection of goods on modern market; standards and labeling as safeguards in buying; family income and problems of distribution.

860. READING IN FAMILY ECONOMICS. Prerequisite: Home Economics 364 or consent of the instructor. *Mrs. Bailey and Miss Mize.*

Survey of current and classical research in family financial management; examination of nature of family financial problems under changing economic conditions; selected topics of special interest.

887. RESEARCH IN FAMILY HOUSING. Prerequisite: At least two senior division courses in housing or related field. *Miss Mize.*

Application of experimental data as obtained from literature reviews or individual investigations with discussions of solutions for practical problems in family housing.

## OTHER GRADUATE COURSES

921. PROBLEMS IN HOME ECONOMICS. Prerequisite: Three graduate courses in Home Economics and consent of major professor. *The Staff.*

The course is designed to provide individual guidance in the development of a significant project related to the student's field of work. A written report of the problem or project will be required.

930. THESIS RESEARCH.

# THE SCHOOL OF VETERINARY MEDICINE

THOMAS JOHN JONES, B.S.A., D.V.M., M.S.A., Ph.D., *Dean*

## 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 its establishment the school has shown consistently favorable development. It became officially recognized as an accredited institution by the Council on Education of the American Veterinary Medical Association in May, 1950. The first class was graduated in June, 1950.

A new modern building which houses all departments of the school was completed in March, 1953. It is well designed and of ample size to serve all functions related to education and training in veterinary medicine. The most modern facilities are to be found in its classrooms and student laboratories, seminar rooms, library, administrative and departmental offices, auditorium, large and small animal clinics and hospitals, and elsewhere throughout the building. In addition, space is conveniently provided for considerable research study.

## POLICIES

In November, 1948, at the Southern Governor's meeting in Savannah, Georgia, a compact for regional education in veterinary medicine was ratified. Accordingly, the states of Maryland, Virginia, North Carolina and South Carolina are assigned by the Regional Council on Education to the University of Georgia, School of Veterinary Medicine. Approximately ten students who meet the qualifications from each of those states will be accepted for enrollment in veterinary medicine each September, while twenty qualified students will be accepted from the state of Georgia. This will give a class of 60 new students each year, making a total of 240 students in the school as a whole.

In order to gain admission to the School of Veterinary Medicine, applicants who are residents in the above-named states must apply to and be recommended by the committee on veterinary student selection in their state. Application blanks may be secured from the authorized persons at the Land Grant College in the respective states. Requests for such blanks should be made by Maryland applicants to Dr. A. C. Brown, University of Maryland, College Park, Maryland; by Virginia applicants to Dr. Paul Farrier, Registrar, Virginia Polytechnic Institute, Blacksburg, Virginia; by North Carolina applicants to Dr. E. W. Glazener, Director of Instruction, College of Agriculture, Raleigh, North Carolina; by South Carolina applicants to Dr. W. C. Godley, Animal Husbandry Department, Clemson Agricultural College, Clemson, South Carolina; and by Georgia applicants to Mr. Walter Danner, Registrar, University of Georgia, Athens, Georgia. Students other than residents of Georgia and the above-named compact states, if admitted, are subject to the same total fee as that required of those admitted from the compact states.

All applicants are required to complete the pre-veterinary requirements by the end of the spring quarter or semester preceding the fall that they wish to enter the School of Veterinary Medicine.

### OPPORTUNITIES FOR 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.** The vast majority of veterinarians in the United States are in private practice; however, there are still many desirable locations for veterinarians who wish to practice the profession.

**GOVERNMENT SERVICE.** The Agricultural Research Service and Agriculture Marketing Service, U. S. Department of Agriculture, provide many attractive opportunities under the protection of Civil Service in Federal meat inspection, poultry inspection, quarantine, control and eradication of animal diseases, and research in diseases of animals. Veterinarians are also employed in the Veterinary Public Health Section of the United States Public Health Service with Civil Service status.

**VETERINARY CORPS OF THE U. S. ARMY AND U. S. AIR FORCE.** Veterinary officers in the U. S. Army and U. S. Air Force are commissioned with the rank of first lieutenant up to and including brigadier general.

**STATE VETERINARIANS.** Most states have state veterinarians whose official duty is the regulation and control of preventable disease in the state, with a corps 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 to serve on research teams, supervise the health of animal colonies, promotional and sales work, and in the preparation of biological products (tuberculin, serums, vaccines, anti-toxins, 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. These services are concerned with a wide field of research study as well as the diagnosis and control of poultry diseases in general veterinary practice.

**LABORATORY ANIMAL MEDICINE.** This is one of the newest fields of specialization in veterinary medicine. It involves, on the one hand, disease prevention and control in experimental animal colonies maintained by medical schools, medical research centers and industrial research laboratories. Furthermore, because of his training in the problems of animal management, physiology, pathology, nutritional diseases, and genetics, he may also play an important role on the research team involved in programs of animal experimentation. The need for veterinarians, particularly those with advanced training in this specialty, far exceeds the supply.

### PRIZES, AWARDS AND HONORS

**THE DONALD E. MCKINNEY CUP.** This cup is presented each year to an outstanding first year student by Omega Tau Sigma fraternity. The award is made in memory of Donald E. McKinney who was a pledge member of the fraternity. The recipient of this award is selected on the basis of scholarship, leadership, and personality.

**THE MARY STEWART GADD AWARD.** This award is provided annually by the Women's Auxiliary of the Maryland Veterinary Medical Association. It is a prize of \$25 which is awarded to the Maryland freshman who makes the highest scholastic record during the first year of study in the professional curriculum.

**THE M. F. BYRD AWARD.** This award is given by Alpha Psi fraternity in memory of the late M. F. Byrd who was a pledge member of the fraternity. It honors the student in the first year class of veterinary medicine who shows the most progress through the year.

**THE JAMES O. SCAIFE AWARD.** This award is provided by Omega Tau Sigma fraternity in memory of the late James O. Scaife, a junior student in veterinary medicine. It is given to a junior student whose selection is based upon scholarship, leadership, and character.

**PHI ZETA HONOR SOCIETY.** Phi Zeta is a national honorary society devoted to recognizing high scholastic attainment among junior and senior students in Veterinary Medicine. To be elected to membership, the junior student must rank scholastically in the upper 10-per cent of his class and the senior student must rank among the highest 25-per cent of his class members who were not elected to membership as juniors.

**THE DEAN'S CUP.** This cup is awarded annually by the Dean to the member of the fourth year class who has shown the best over-all progress during his four years in the School of Veterinary Medicine.

**THE UPJOHN AWARD.** These awards are made annually by the Upjohn Company to the members of the fourth-year class. One is presented to the student showing greatest proficiency in large animal subjects and the other to the student most proficient in small animal subject matter. The recipients are selected by the clinical staff of the School of Veterinary Medicine.

**WOMEN'S AUXILIARY.** This award of \$50 is given by the Women's Auxiliary of the American Veterinary Medical Association to a fourth year student in the School of Veterinary Medicine. The recipient is selected by the faculty on the basis of significance in promoting the status of the veterinary school on the campus.

**THE JESSE L. ROBERTS AWARD.** This honor is awarded annually by Alpha Psi fraternity to the senior student showing greatest progress in both large and small animal clinics. It is in memory of Dr. Jesse L. Roberts, a member of Alpha Psi, who died at the end of his senior year in the veterinary school.

**THE EQUINE AWARD IN LARGE ANIMAL CLINIC.** This annual award is provided by Doctors A. M. Mills and J. D. Edens to honor the senior student showing greatest excellence in equine practice in the large animal clinic and hospital area. It is a silver cup with winners' names inscribed. Possession of the cup is rotated to a new winner near the end of each school year.

**MOSS ESSAY CONTEST.** The Moss Essay Contest is conducted by the American Animal Hospital Association and is open to students of all accredited veterinary schools in the United States. Participating contestants submit essays on professional ethics to be judged by a committee of the American Animal Hospital Association. First, second and third prizes are awarded to respective winners in each school submitting five or more essays. A grand prize, an all expense trip to the annual meeting of the American Animal Hospital Association, is awarded to the student writing the best of all essays submitted from all schools.

**SOUTHEASTERN VETERINARIAN LITERATURE AWARD.** (Student Publication of the Student Chapter of the A.V.M.) This is a quarterly award of \$5 to be given to any student of the School of Veterinary Medicine, University of Georgia, who submits the best article for publication in this magazine. Recipients are selected by the staff of the magazine.

**FABRO SCHOLARSHIP.** A scholarship of \$250 to be given to a senior student in good standing in the School of Veterinary Medicine. The student to be chosen by the Dean.

**OTHER AWARDS** by individuals, commercial firms, and organizations which are not annual awards are granted on the basis designated by the donor. Upon receipt of such an award, the student body is notified.

### DEGREES WITH HONORS

The degree, Doctor of Veterinary Medicine, is awarded with honors to candidates who achieve specified scholastic records. The honors and specified scholastic records are: cum laude for a grade 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+.

### GRADUATE WORK

The Department of Veterinary Pathology and Parasitology offers a Master of Science degree program in veterinary pathology and parasitology. The Department of Microbiology and Preventive Medicine offers a Master of Science and Doctor of Philosophy program in medical microbiology and, jointly with the Poultry Disease Research Center and the Poultry Department, a coordinated program in poultry diseases and parasites.

Students seeking admission to the Graduate School should apply to the Dean of the Graduate School, The University of Georgia. For more detailed information, write for The Graduate School Bulletin, The University of Georgia.

## ADMISSION REQUIREMENTS FOR PROFESSIONAL COURSES OF STUDY

In order to matriculate in the School of Veterinary Medicine, a student must present a minimum of 99 to 109\* quarter hours credit (exclusive of two years of Military Science or Physical Education) from an acceptable college, with grades of C or better. Candidates are selected on the basis of character, personality, scholastic achievement, and general fitness for the study of veterinary medicine. The requirements must be completed by June before admission the following September.

Entering classes in the School of Veterinary Medicine now average in excess of three years of collegiate training. A student admitted with only the minimum requirements will be competing with individuals having three or more years of college and thus better equipped for the modern professional curriculum. Students planning a career in veterinary medicine are, therefore, strongly encouraged to undertake collegiate study over and above the minimum pre-veterinary requirements, preferably leading to the baccalaureate degree in conjunction with the D. V. M. degree.

### *Minimum Program*

<i>Subjects</i>	<i>Quarter Hours</i>
General Chemistry .....	12—15
Organic Chemistry .....	12—15
Physics .....	10—12
Mathematics .....	9—12
Biological Science (Botany, Zoology) .....	15—20
English .....	15—18
Social Science .....	(9—15)*
Animal, Dairy, Poultry Husbandry .....	9—15
Animal Nutrition, Genetics .....	6—10

(Do not include bacteriology in the pre-veterinary curriculum)

There are an exceedingly large number of applicants seeking admission. In general, those having the highest scholastic rating will be given preference. It is advisable, therefore, that the student, upon entering college, decide whether he would prefer to continue his education in the College of Agriculture or in the College of Arts and Sciences, so that he may continue in a field other than veterinary medicine with a minimum loss of time in the event that he is not admitted into the School of Veterinary Medicine. Applicants must meet the admission requirements for the University.

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.

\*May be satisfied by passing the examination on the Federal and Georgia Constitutions and on American and Georgia History. Students following a three-year Pre-Veterinary schedule must include 9 - 15 hours of Social Science courses in their curriculum even though they satisfy the Constitution and History requirements by examination.

## SCHOLASTIC REGULATIONS

In addition to regulations governing the grading system of the University (see sections on Academic Regulations and Scholastic Probation and Dismissal in the General Catalogue), students in the School of Veterinary Medicine are subject to a grade-point proficiency evaluation established by the faculty and by student body representatives of the school. A student who fails to make a scholastic average equivalent to at least 1.5 grade-points in any quarter during the professional course of study shall be placed on scholastic probation. A second probation during any subsequent quarter must be satisfactorily removed or the student may be dismissed.

## HONOR CODE

The students in the school of Veterinary Medicine have drawn up and are working under a code of honor which covers the three specific areas of lying, cheating and stealing. This code is administered by student representatives from each class, and faculty members are present at trials only in an advisory capacity. The aim of the code is to develop personal integrity and unquestionable honesty as well as the personal responsibilities that are so important in maintaining and improving the ethical standards of the veterinary profession.

## FOUR YEAR PROFESSIONAL CURRICULUM

## FIRST YEAR

FALL QUARTER				WINTER QUARTER				SPRING QUARTER			
	Lec	Lab	Cr		Lec	Lab	Cr		Lec	Lab	Cr
311 Anatomy	2	13	7	312 Anatomy	0	15	5	313 Anatomy	3	8	5
404 Histology-Embryology	2	6	5	405 Histology-Embryology	2	6	5	406 Histology-Embryology	2	6	5
451 Physiol. Chemistry	4	2	5	452 Physiol. Chemistry	4	2	5	406 Physiology	3	4	5
300 Vet Medicine	2	0	2	380 General Microbiol.	3	4	5	410 Immunology	3	6	5
	—	—	—		—	—	—		—	—	—
	10	21	19		9	27	20		11	24	20

## SECOND YEAR

	Lec	Lab	Cr		Lec	Lab	Cr		Lec	Lab	Cr
425 Pathology	3	4	5	426 Pathology	3	4	5	427 Pathology	3	4	5
407 Physiology	3	4	5	408 Physiology	3	5	5	410 Endocrinol.	4	3	5
430 Pharmacology	5	0	5	431 Pharmacology	4	2	5	408 Parasitology	3	6	5
422 Pathogenic Microbiology	3	4	5	451 Virology	2	3	3	402 Lg. An. Med.	5	0	5
	—	—	—		—	—	—		—	—	—
	14	12	20		12	14	18		15	13	20

## THIRD YEAR

	Lec	Lab	Cr		Lec	Lab	Cr		Lec	Lab	Cr
403 Large Animal Medicine	5	0	5	416 Obstetrics	5	0	5	470 Infect. Dis.	5	0	4
410 Small Animal Medicine	3	0	3	411 Small Animal Medicine	3	0	3	412 Small Animal Medicine	3	0	3
420 Surgery	5	0	5	421 Surgery	5	3	5	475 Poultry Dis.	5	0	5
142 Poisonous Plants	0	4	2	403 Applied Anatomy	0	4	2	422 Small Animal Surgery	5	3	5
409 Parasitology	3	9	5	461 Clin. Path.	3	6	5	480 Radiology	3	0	3
450-a Clinic Orientation	0	4	1	450-b Clinic Orientation	0	4	1	450-c Clinic Orientation	0	4	1
	—	—	—		—	—	—		—	—	—
	16	17	21		16	17	21		21	7	21

SUMMER QUARTER — REQUIRED, 10 HOURS

451 Large Animal Clinics & Conf.....(2 hrs.)	476 Ambulatory Clinics & Conf.....(2 hrs.)
456 Small Animal Clinics & Conf.....(2 hrs.)	471 Pathol. Diagnosis & Conf.....(2 hrs.)
	486 Avian Clinics & Conf.....(2 hrs.)

FOURTH YEAR

	Lec	Lab	Cr		Lec	Lab	Cr		Lec	Lab	Cr
471 Infec. Dis.	5	0	5	484 Food Hygiene	5	0	5	450 Nut&DefDis	5	0	5
480 Public Health	3	0	3	487 Jurisprud.	2	0	2	489 Vet. An. Mgt.	3	0	3
404 Lg. An. Med.	2	0	2	485 Bus. & Ethics	2	0	2	454 LAClin&Conf	0	9	2
452 LAClin&Conf	0	9	2	453 LAClin&Conf	0	9	2	459 SAClin&Conf	0	9	2
457 SAClin&Conf	0	9	2	458 SAClin&Conf	0	9	2	479 AmClin&Conf	0	4	2
477 AmClin&Conf	0	4	2	478 AmClin&Conf	0	4	2	474 PathDi&Conf	0	4	2
472 PathDi&Conf	0	4	2	473 PathDi&Conf	0	4	2	489 AvianCl&Conf	0	4	2
487 AvianCl&Conf	0	4	2	488 AvianCl&Conf	0	4	2				
	10	30	20		9	30	19		8	30	18

REQUIREMENTS FOR THE DEGREE —DOCTOR OF VETERINARY MEDICINE

Upon completion of the four year professional curriculum, including a satisfactory proficiency evaluation 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

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.

ANATOMY AND HISTOLOGY

Head: Bell. Staff: Loveless, Westerfield

309. ANATOMY OF FARM ANIMALS. Four lectures and one laboratory period. Prerequisites: Chemistry 260; Zoology 226 (or their equivalent). Offered each Fall Quarter to students in the College of Agriculture. *Mr. Westerfield and Staff.*

An introduction to the gross, microscopic, and developmental anatomy of the common farm animals.

311-312-313. GROSS ANATOMY OF THE DOMESTIC ANIMALS. 17 hours. 311: Two lectures and 13 hours of laboratory. 312: 15 hours of laboratory. 313: Three lectures and 8 hours of laboratory. *Mr. Westerfield and Mr. Loveless.*

Topographic and systematic study by complete dissection of the horse, ox, sheep (or goat), pig, dog, and fowl.

403. APPLIED ANATOMY OF THE DOMESTIC ANIMALS. 2 hours. One lecture and two hours of laboratory. *Mr. Westerfield and Mr. Loveless.*

A special study of anatomy as related to diagnosis, surgery, and obstetrics.

404-405-406. HISTOLOGY AND EMBRYOLOGY OF THE DOMESTIC ANIMALS. 15 hours. Two lectures and three two-hour laboratory periods each quarter.

*Mr. Bell.*

The development of the vertebrate from the origin of the germ cells through fertilization, cleavage, germ layers, and organogenesis with special attention to the fetal membranes, placenta, and teratology, and the microscopic structure of the various tissues and organs of the animal body correlated with gross anatomy.

410. **ANATOMICAL TECHNIQUE.** 2 to 5 hours. Three hours of laboratory for each credit hour. Prerequisite: Anatomy 313 and 406 or their equivalent. Offered on demand. *Mr. Westerfeld and Staff.*

Instruction in the technique of preparation of animals for dissection as well as methods of preparation of material for microscopic study.

### MICROBIOLOGY AND PREVENTIVE MEDICINE

Head and Director Medical Microbiology Program: Kleckner.

Staff: Blalock, Foster, Hubbard, Schmittle, Schwartz, VanEseltine

Associate Staff: Boyd, Reid, Richey.

Director General Bacteriology Program: Payne.

Staff: Bennett, Eagon, Giddens, Hamdy, Howe, McClung.

Instruction in microbiology is coordinated with the curricula in the Department of Bacteriology, College of Arts and Sciences and the Departments of Food Technology, Dairy, and Agronomy, College of Agriculture. For additional course listings in this and related fields, see announcements of College of Arts and Sciences and College of Agriculture.

The curriculum in Poultry Diseases and Parasites is coordinated with the Poultry Department, College of Agriculture and the Poultry Disease Research Center, College Experiment Station. For additional course listings, see announcements of Poultry Department, College of Agriculture.

### MEDICAL MICROBIOLOGY

380. **INTRODUCTORY VETERINARY MICROBIOLOGY.** Three lectures and two double laboratory periods. Prerequisites: First year veterinary curriculum. Other qualified students by arrangement with the head of the Department. *Mr. VanEseltine.*

Covers the fundamental principles and techniques of the science of microbiology.

410. **(BACTERIOLOGY) IMMUNOLOGY.** Three lectures and two three-hour laboratory periods. Prerequisites: Bacteriology 380 or 409 and Chemistry 451 or consent of instructor. Veterinary Building. *Mr. Foster.*

Mechanisms of infection and host resistance; principles and techniques of serology.

422. **(BACTERIOLOGY) PATHOGENIC BACTERIOLOGY.** Three lectures and two double laboratory periods. Prerequisites: Bacteriology 410. Veterinary Building. *Mr. VanEseltine.*

Studies in the morphological, cultural and physiological properties of the important pathogenic bacterial and mycotic agents; their relation to health and disease is emphasized.

450. **(BACTERIOLOGY) VIROLOGY.** Three lectures and two double laboratory periods. Prerequisites: Bacteriology 410. Veterinary Building. *Mr. Foster.*

An introduction to the viruses and rickettsiae: principals and methodology.

451. **ANIMAL VIRUSES.** 3 hours. Two lectures and three hours of laboratory. Prerequisite: Second year veterinary curriculum or consent of instructor. *Mr. Foster.*

Studies on the viruses as infectious agents embracing the important viral diseases of animals including the zoonoses.

810. **(BACTERIOLOGY) IMMUNOCHEMISTRY.** Two lectures and three double laboratory periods. Prerequisite: Bacteriology 410 or permission of the instructor. Veterinary Building. *Mr. Foster.*

Detailed investigation into the chemistry of antigenically active substances and mechanisms of immunological reactions. Lecture emphasis will be on current literature.

816. (BACTERIOLOGY) SEMINAR IN MICROBIOLOGY. 1 hour per quarter. One hour per week maximum three quarters. Available to majors in bacteriology, zoology, plant sciences, veterinary pathology and parasitology, agriculture, with two courses in bacteriology as prerequisite. Biological Science Building.

Meetings for discussion of research and new developments in the field.

820. (BACTERIOLOGY) ADVANCED PATHOGENIC MICROBIOLOGY. Prerequisites: Bacteriology 422 and 450. Veterinary Building. *Mr VanEseltine.*

A detailed study of the pathogenic bacteria and their relationship to diseases.

900. (BACTERIOLOGY) PROBLEMS IN MICROBIOLOGY. Maximum credit of 10 hours. Must be preceded by at least two graduate courses in bacteriology. *The Staff.*

This course allows students to pursue intensive study under the direction of staff members, on approved problems in medical, agricultural, marine and general microbiology.

### VETERINARY PREVENTIVE MEDICINE

311. VETERINARY HYGIENE. Prerequisites: Vet. Physiology 310; Bacteriology 350. Offered each spring quarter to students in the College of Agriculture. *Mr. Hubbard.*

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.

373. (POULTRY) POULTRY HEALTH. Prerequisite: Poultry Husbandry 160 and Bacteriology 350. Offered to students majoring in poultry husbandry and others that are qualified. *Mr. Schwartz.* (Offered in alternate years. Offered in 1964-65).

A study of the common infectious, parasitic and nutritional diseases of poultry; their cause, diagnosis, prevention and control.

475. POULTRY DISEASES. Prerequisite: Third year veterinary curriculum. *Mr. Schwartz.*

A study of the etiology, epidemiology, pathogenesis, diagnosis, prevention, control and treatment of infectious, nutritional and parasitic diseases of poultry.

480. VETERINARY PUBLIC HEALTH. 3 hours. Prerequisite. Fourth year veterinary curriculum. *Mr. Hubbard.*

A study 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.

484. FOOD HYGIENE. Prerequisite: Fourth year veterinary curriculum. *Mr. Hubbard.*

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.

800. SEMINAR IN VETERINARY PREVENTATIVE MEDICINE. 1 hour credit per quarter. Maximum of 3 credits toward any one degree. Prerequisites: Graduate standing in veterinary medicine or an allied field. *Mr. Kleckner and Staff.*

801. MICROSCOPIC PATHOLOGY OF POULTRY. Prerequisites: Veterinary Pathology 425, 426, 427 or equivalent and consent of instructor. *Mr. Schmittle.*

Detailed microscopic studies will be made of avian tissues and the effects of specific diseases and their processes on them. A working knowledge of tissue processing and differential staining will be included.

808. (POULTRY) PARASITIC DISEASES OF POULTRY. Prerequisite: Zoology 372 or equivalent. *Mr. Reid.*

An intensive study of life histories and ecological factors useful in control of poultry parasites.

809. (POULTRY) POULTRY DISEASES AND PARASITES. *Mr. Kleckner.*

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.

811. (POULTRY) PROBLEMS IN POULTRY DISEASES AND PARASITES. *Mr. Kleckner, Mr. Reid, Mr. Schmittle.*

This course allows students to work intensively on approved problems after selection of the specialized area with the appropriate staff member.

## MEDICINE AND SURGERY

Head: Morton. Staff: Adsit, Barrett, Blackmon, Bentley, Causey, Chapman, Christy, Edens, Hoffman, Huebner, Kittrell, Kreuz, Rainey, Taul.

300. VETERINARY MEDICINE. 2 hours. Two lectures per week. *Mr. Jones and faculty, together with prominent graduate veterinarians.*

A survey of the scope, objectives, obligations and opportunities in the broad field of veterinary science.

402-403-404. LARGE ANIMAL MEDICINE. 12 hours. *Mr. Morton and Mr. Hoffman.*

402. 5 hours. *Mr. Morton.* Diseases of farm animals pertaining to the digestive, urinary, and blood forming systems.

403. 5 hours. *Mr. Morton.* Diseases of farm animals pertaining to the respiratory and lymphatic systems and disease due to disturbances of metabolism.

404. 2 hours. *Mr. Hoffman.* Diseases of farm animals pertaining to locomotion and special senses.

410-411-412. SMALL ANIMAL MEDICINE. 9 hours. *Mr. Causey and Staff.*

The pathology, diagnosis and treatment of diseases of small animals.

416. OBSTETRICS AND GENITAL DISEASES. *Mr. Taul.*

A study of the principles of veterinary obstetrics and the diseases of reproduction.

420. SURGERY. *Mr. Kreuz.*

A survey of general surgical pathology, therapeutics, wound infection, asepsis, antisepsis, anesthesia, and the fundamentals of operative techniques. Including also a detailed study of special and regional surgery of both large and small animals.

421. SURGICAL TECHNIQUES. Large Animals. *Mr. Kreuz.*

Surgical exercises cover instructions, demonstration and practice on preoperative preparation, anesthesia, operative techniques and post-operative care of large animals.

422. SURGICAL TECHNIQUES, Small Animals. *Mr. Kittrell.*

Surgical exercises cover instructions, demonstration and practice on preoperative preparation, anesthesia, operative techniques, and post-operative care of small animals.

470-471. INFECTIOUS AND EPIZOOTIC DISEASES. 9 hours. Prerequisite:

Third and fourth year veterinary curriculum. *Mr. Adsit.*

A study of the infectious and epizootic diseases of animals; embracing the history, etiology, transmission, symptoms, lesions, diagnosis and management of each disease.

480. RADIOLOGY. 3 hours. *Mr. Barrett.*

The principles of radiology; darkroom, X-ray and fluoroscopic techniques; radiologic aspects of diseases and injuries in animals; and introduction to the therapeutic use of X-ray.

485. ETHICS AND BUSINESS. 2 hours. *Mr. Morton and faculty, together with prominent graduate veterinarians.*

A study of the ethical obligations and business aspects of veterinary practice.

487. JURISPRUDENCE. 1 hour. *Mr. Bentley.*

A survey of the laws and regulations governing veterinary medicine, including contracts, leases, liabilities, stockyard and transportation laws.

489. VETERINARY ANIMAL MANAGEMENT. 3 hours. *Mr. Adsit and Staff.*

Instruction covers the responsibility of the veterinarian as an advisor to the herd owner in management problems.

## THE VETERINARY CLINICS

Clinical instruction is provided by the joint staffs of the Departments of Medicine and Surgery; Pathology and Parasitology; Microbiology and Preventive Medicine; and Physiology and Pharmacology.

Each student, for a minimum of 10 weeks during the Summer quarter, and throughout the Fourth Year term, is on duty each day during clinic hours and on call at all times, under staff supervision. Clinic conferences are supervised by the clinic staffs but entail active participation by each student.

Clinics are grouped into five major instructional units: LARGE ANIMAL—medicine and surgery, including Outpatient Clinic and Hospital; SMALL ANIMAL—medicine and surgery, including Outpatient Clinic and Hospital; PATHOLOGICAL DIAGNOSIS—Clinical Pathology, Necropsy, and Parasitology Laboratories; AVIAN MEDICINE—Poultry diagnostic laboratory and selected poultry farm service; AMBULATORY FARM SERVICE—on the farm instruction in the treatment, surgery, and care of the sick animal and the handling of herd health problems.



450 a-b-c. CLINICAL ORIENTATION. 1 hour credit each quarter. *Mr. Kreuz and Staff.*

This course is intended to prepare the student for clinic preceptorship. He will be instructed in the techniques of examining, treating and handling and caring for animals. There will be a certain number of formal lectures. Emphasis will be placed on actual participation by the student.

451-452-453-454. LARGE ANIMAL CLINICS AND CONF. 2 hours credit each quarter.

456-457-458-459. SMALL ANIMAL CLINICS AND CONF. 2 hours credit each quarter.

471-472-473-474. PATHOLOGICAL DIAGNOSIS AND CONF. 2 hours credit each quarter.

476-477-478-479. AMBULATORY CLINICS AND CONF. 2 hours credit each quarter.

486-487-488-489. AVIAN CLINICS AND CONF. 2 hours credit each quarter.

## PATHOLOGY AND PARASITOLOGY

Staff: Hayes, Jordan, Papp, Sikes

408-409. VETERINARY PARASITOLOGY. 10 hours. 408: Three lectures and two three-hour laboratory periods. 409: Three lectures, two three-hour laboratory periods and three seminar hours. *Miss Jordan and Mr. Hayes.*

Included are studies on taxonomy, morphology, life history, pathological manifestations, diagnosis and control of parasitic protozoa, helminths and arthropods.

425. GENERAL ANIMAL PATHOLOGY. Three lectures and two double periods of histopathological laboratory. *Mr. Papp.*

An introduction to pathology and the consideration of the phases of pathological processes including the reparative processes.

426. SYSTEMATIC ANIMAL PATHOLOGY. Three lectures and two double periods of histopathological laboratory. *Mr. Papp.*

The application of general pathological processes to various body systems with emphasis on their clinical manifestations. The gross and microscopic study of neoplasms.

427. SPECIAL ANIMAL PATHOLOGY. Three lectures and two double periods of postmortem laboratory. *Mr. Papp.*

The pathology of specific infectious and nutritional diseases and instruction and practice in the proper postmortem techniques and evaluations.

461. CLINICAL PATHOLOGY. Three lectures and two three-hour laboratory periods. *Miss Jordan.*

The course is designed to instruct the student in the performance of hematological, cytological, bacteriological, serological, urological, parasitological and histopathological examinations as an aid in the diagnosis of animal diseases. Emphasis is placed on the correlation of results with fundamental changes in diseases and clinical manifestations. Approved methods for preparing and submitting samples to the laboratory are considered.

## GRADUATE COURSES

801. PATHOLOGY OF PARASITIC DISEASES IN ANIMALS. Prerequisites: Veterinary Parasitology 405, 406, 407 and Pathology 425-426-427 or equivalent, *Mr. Sikes and Mr. Hayes.*

A study of pathological alterations produced in animals. Work will include helminths, protozoa and arthropods.

802. VETERINARY PATHOLOGY AND PARASITOLOGY. Prerequisites: Pathology 801 or its equivalent. *Mr. Sikes and Mr. Hayes.*

A continuation of 801.

803. VETERINARY SURGICAL PATHOLOGY. Prerequisites: Veterinary Pathology 425-426-427-461 or their equivalents. *Mr. Sikes.*

Studies are made on clinical indications for biopsy and the diagnosis of individual surgical cases.

805. PROBLEMS IN VETERINARY PATHOLOGY AND PARASITOLOGY. Prerequisites: Pathology 425-426-427 or their equivalent. *Mr. Sikes and Mr. Hayes.*

Detailed studies are made of diseases of birds and mammals.

814, 815, and 816. SEMINAR IN VETERINARY PATHOLOGY AND PARASITOLOGY. 1 hour each course. Prerequisites: Graduate standing in Veterinary Medicine or a closely allied field of interest. *The Staff.*

820-821. **THE PATHOLOGY OF NUTRITIONAL DISEASES OF ANIMALS.** 10 hours. *Mr. Sikes.*

Detailed studies of gross and microscopic alterations of tissues, organs, and systems of animals and birds which have received excessive or deficient nutritive elements.

850. **DISEASES OF WILDLIFE.** Prerequisite: Undergraduate degree in Biology, Zoology, Wildlife Management or Veterinary Medicine. *Mr. Hayes, Mr. Jenkins and Mr. Sikes.*

Fundamental instruction in wildlife diseases together with necropsy procedures, gross and microscopic alterations of diseased tissues from bacterial, fungal and viral agents.

851. **DISEASES OF WILDLIFE.** Prerequisite: Veterinary Pathology 850. *Mr. Hayes, Mr. Jenkins and Mr. Sikes.*

A continuation of Pathology and Parasitology 850. A study of toxicological, nutritional and parasitological diseases as they relate to public health, disease of livestock and game management.

## PHYSIOLOGY AND PHARMACOLOGY

Head: Piercy. Staff: Bowen, Jones, Kornfeld, Morgan.

Associate Staff: Cormier, Duncan, Sewell.

310. **PHYSIOLOGY OF DOMESTIC MAMMALS.** Four lectures and one three hour laboratory period. Prerequisites: Vet. Anatomy 309. (Offered each Winter Quarter to students in the College of Agriculture). *Mr. Piercy.*

A general and comparative consideration of physiological phenomena with emphasis on body fluids, circulation, respiration, digestion and metabolism, renal function, endocrinology, and reproduction as related to farm animals. A course especially arranged for students majoring in animal, dairy, or poultry husbandry.

451. **PHYSIOLOGICAL CHEMISTRY.** Four lectures and one two-hour laboratory period. *Mr. Cormier.*

A survey of the fundamental biochemical processes which occur in the animal body.

452. **PHYSIOLOGICAL CHEMISTRY.** Four lectures and one two hour laboratory period. *Mr. Cormier.*

A continuation of Physiological Chemistry 451 with advanced study of the chemistry of physiological processes.

406-407-408. **COMPARATIVE MAMMALIAN PHYSIOLOGY.** 15 hours. 406-407: Three lectures or recitations and two two-hour laboratory periods each quarter. 408: Three lectures or recitations, three seminar hours and one two-hour laboratory period. *Mr. Morgan and Mr. Piercy.*

A comparative study of mammalian physiology relating consecutively to the nervous system, muscles, body fluids, circulation, respiration, digestion, the urinary system, nutrition, body heat, endocrinology and reproduction.

410. **VETERINARY ENDOCRINOLOGY.** Four lectures or recitations and one three-hour laboratory period. *Mr. Kornfeld.*

A survey and study of endocrine functions.

430-431. **VETERINARY PHARMACOLOGY.** 10 hours. 430: Five lectures or recitations. 431: Four lectures and one two-hour laboratory period. *Mr. Bowen.*

A study of the mechanisms of drug action on the physiologic systems of living organisms.

422. **POISONOUS PLANTS.** 2 hours. Two double periods of demonstrations, laboratory or field trips. *Mr. Duncan.*

A study of plants in the Southeastern United States that are poisonous to livestock with emphasis on their identification and distribution.

450. **ANIMAL NUTRITION AND DEFICIENCY DISEASES.** Prerequisite: Fourth year standing in the School of Veterinary Medicine. *Mr. Sewell and Mr. Jones.*

A detailed consideration of the relative values of different crops, feeds and products, and their use in meeting the nutritive requirements of the various classes of farm animals, including also diseases of nutritional origin with emphasis on deficiencies in naturally occurring feeds.

# DIVISION OF THE ARMED SERVICES

ALVIN BLOCKSOM BISCOE, A.B., M.A., Ph.D., *Coordinator*

WARREN A. THRASHER, B.S., Colonel, USA, *P.M.S.*

JOHN D. BOWDEN, JR., B.S., MLTT, Lt. Colonel, USAF, *P.A.S.*

The mission of the Reserve Officers' Training Corps is the production of junior officers who have qualities and attributes essential to their progressive and continued development in the Army or the Air Force of the United States. All physically qualified freshman male students must enroll in and complete two years of basic ROTC as a requirement for graduation with the exception of veterans, non-citizens, and those otherwise exempted. Students who fail or fail to complete any ROTC Basic Course are required to re-enroll for that course the first time it is again offered.

Students transferring from other institutions who were enrolled in Basic ROTC at any time prior to such transfer are required to continue ROTC training to completion of the Basic Course. Such students will normally be required to continue in the branch of service of prior enrollment. Students entering at sophomore or higher level without prior Basic ROTC, or equivalent, are not required to enroll in the ROTC program at this University. Students who have completed ROTC courses in essentially military preparatory schools or junior colleges will be given appropriate credit toward their college ROTC requirement. No credit is given for high school ROTC participation.

Special attention is given to the maintenance of high standards of conduct and academic achievement. The courses are focused on the development of individual leadership and a sense of responsibility for duty as a citizen reserve officer of the National Military Establishment.

For statements about fees, uniforms and textbooks see pages 104-105.

## SUBSISTANCE 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 1964 is 90 cents 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 five cents per mile from their homes to camp and return.

## DEPARTMENT OF ARMY

### MILITARY SCIENCE AND TACTICS

The first two years are known as the basic course and the second two years are known as the advanced course. For selection and retention a student must be physically qualified, must have maintained above average military and academic standing and must have demonstrated a potential for further leadership development.

Graduates of the Advanced Course are commissioned as Second Lieutenants in the United States Army Reserve in the arm or service most appropriate to their interests and academic achievements consistent with the needs of the Army. They are exempt from selective service requirements and instead will be called to active duty within twelve months after graduation and will serve in their commissioned status for a period from six months to two years depending upon the prevailing requirements and circumstances. Graduates may be granted delay in reporting for active duty for graduate study in many fields. A number of outstanding graduates are offered commissions in the Regular Army each year.

### ARMY COURSES

The Basic Course consists of two hours of classroom work and one hour of drill per week throughout the freshman and sophomore years.

The Advanced Course consists of four hours of classroom work for two quarters each year in the junior and senior years and one or more hours of drill per week for the entire junior and senior years. Certain additional elective academic courses are prerequisites to an Army commission. The PMS or the faculty adviser can furnish information concerning these courses.

1 a-b-c. **MILITARY SCIENCE AND TACTICS:** 6 hours. A general course in Organization of the Army and ROTC. United States Army and National Security and individual weapons and marksmanship.

2 a-b-c. **MILITARY SCIENCE AND TACTICS:** 6 hours. A general course in small unit tactics, map and aerial photograph reading and American Military History.

350 a-b. **MILITARY SCIENCE AND TACTICS:** 6 hours. A more advanced course in leadership, Military Teaching Methods, Branches of the Army, Small Unit Tactics and Communications.

351 a-b. **MILITARY SCIENCE AND TACTICS:** 6 hours. An advanced course in Logistics, Operations, Military Law, Administration, Personnel Management and Service Orientation.

351 f. **ARMY AVIATION.** 3 hours. For qualified seniors. Consists of 35 hours of ground school instruction and 35 hours of flight training leading to a pilot's license. Students must agree to continue Army Aviation training on active duty.

### DEPARTMENT OF AIR SCIENCE

The first two years are known as the basic course and the second two years are known as the advanced course. Selection for the advanced course is based on physical suitability and interest in the Air Force together with achievement records of academic ability, observed leadership traits, and the results of a competitive mental officer qualification test.

Normally, commissioned graduates are scheduled to be called to active duty from one to six months after graduation. Flying training requires approximately one year and is followed by four years of active duty. Those commissioned in non-flying categories (e.g.: meteorology, administration, Chaplain) have a four-year service commitment. Those who wish to take graduate training in certain fields such as physics, nuclear chemistry, and others for which there is a critical need, may request a delay in call to active duty.

## AIR FORCES COURSES

The basic course consists of two hours of classroom work and one hour of drill and outdoor instruction per week.

The advanced course consists of four hours of classroom work and one hour of drill per week.

5 a-b-c. FOUNDATIONS OF AIR POWER—1. 6 hours. The Freshman Year. A survey of aerospace power, of aerospace vehicles, national security forces, and Professional Opportunities in the USAF.

6 a-b-c. FOUNDATIONS OF AIR POWER—2. 6 hours. The Sophomore Year. Advanced aerospace capabilities of the USAF. The Evolution of Aerial Warfare, Target Selection, Weapons, Delivery Vehicles, Bases, Material, Personnel, USAF Operations in Peace and War, and Problems and Possibilities of Space Operations.

355 a-b-c. AIR FORCE OFFICER DEVELOPMENT. 9 hours. The Junior Year. Staff organization and functions. The skills required for effective staff work including oral and written communication and problem solving; basic psychological and sociological principles of leadership and their application to leadership practices and problems; and an introduction to military justice.

356 a-b-c. GLOBAL RELATIONS. 9 hours. The Senior Year. An intensive study of global relations with emphasis on international relations and geography. Instruction also includes weather, navigation, and briefing for commissioned service.

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